

E&B NATURAL RESOURCES MANAGEMENT CORPORATION

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February 15, 2016

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

RECEIVED

By Alameda County Environmental Health 9:19 am, Feb 17, 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:

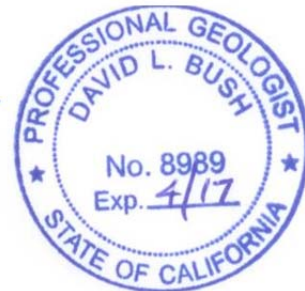
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Jeff L. Monroe
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February 2, 2016

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G.I.G. Oil Production Facility, G.I.G. Lease
Section 7, T3S, R3E, MDB&M
8467 Patterson Pass Road, Livermore, Alameda County, California
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.

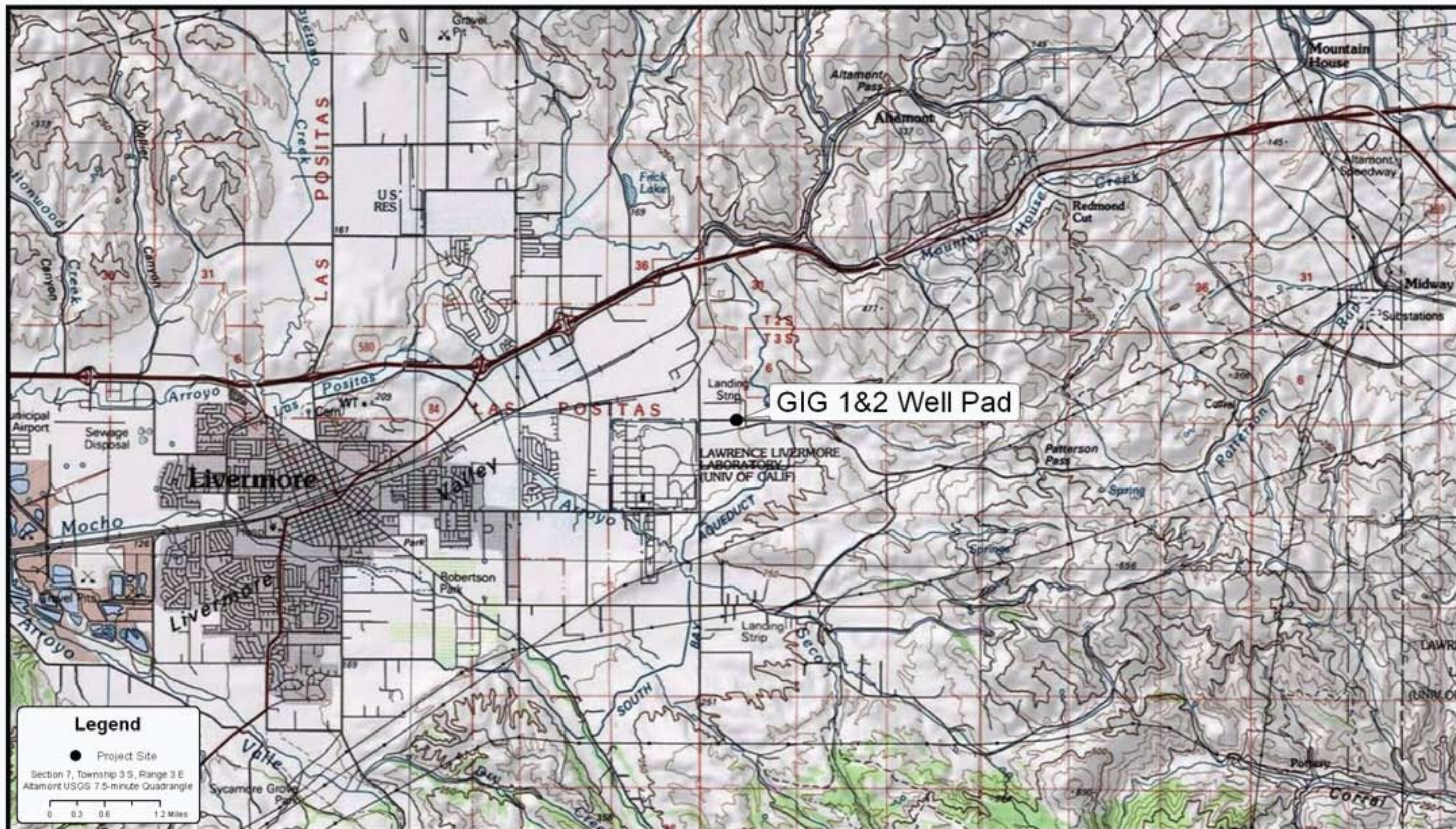
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CONCLUSION AND RECOMMENDATIONS

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

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

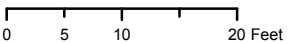




Legend

 Monitoring Well Locations

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

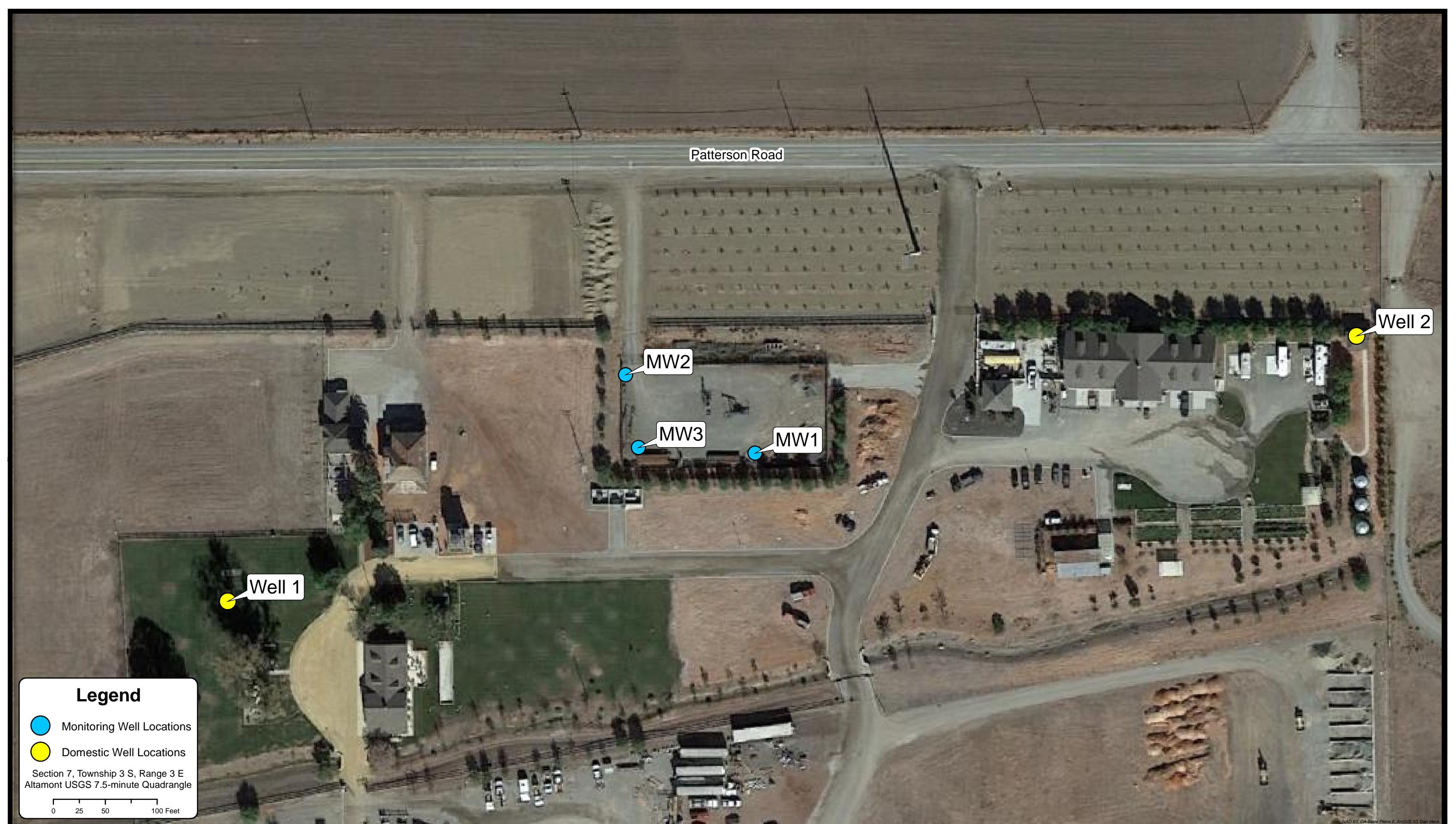


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FIGURE 2
Monitoring Well Location and Groundwater Gradient Map

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1600 Norris Road
Bakersfield, California 93308

© 83, CA State Plane II, 11/11/11, 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

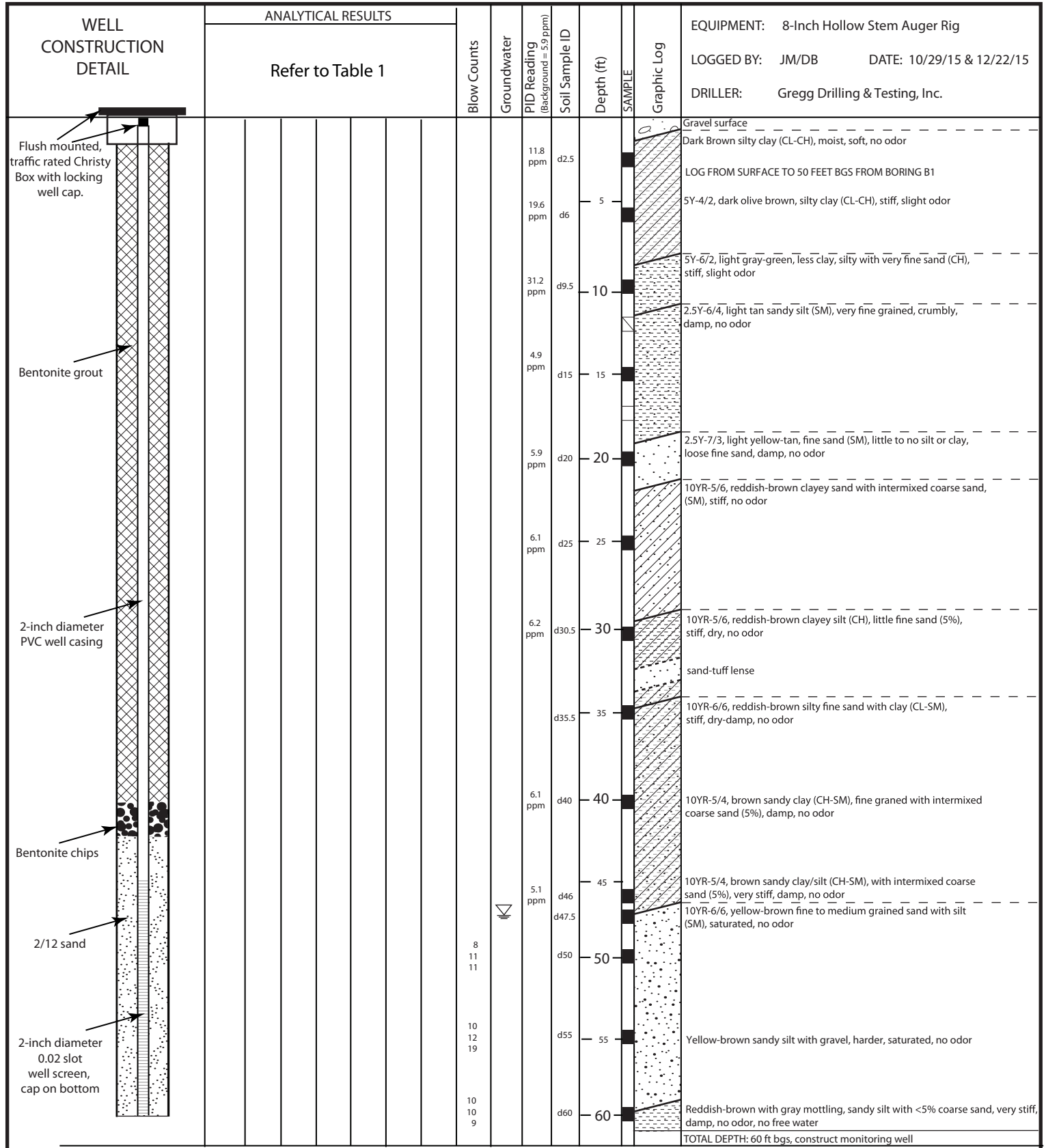
FIGURE 3
Domestic Well Location Map

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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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 DRAFTED BY: DLB
 DATE: FEB 2016

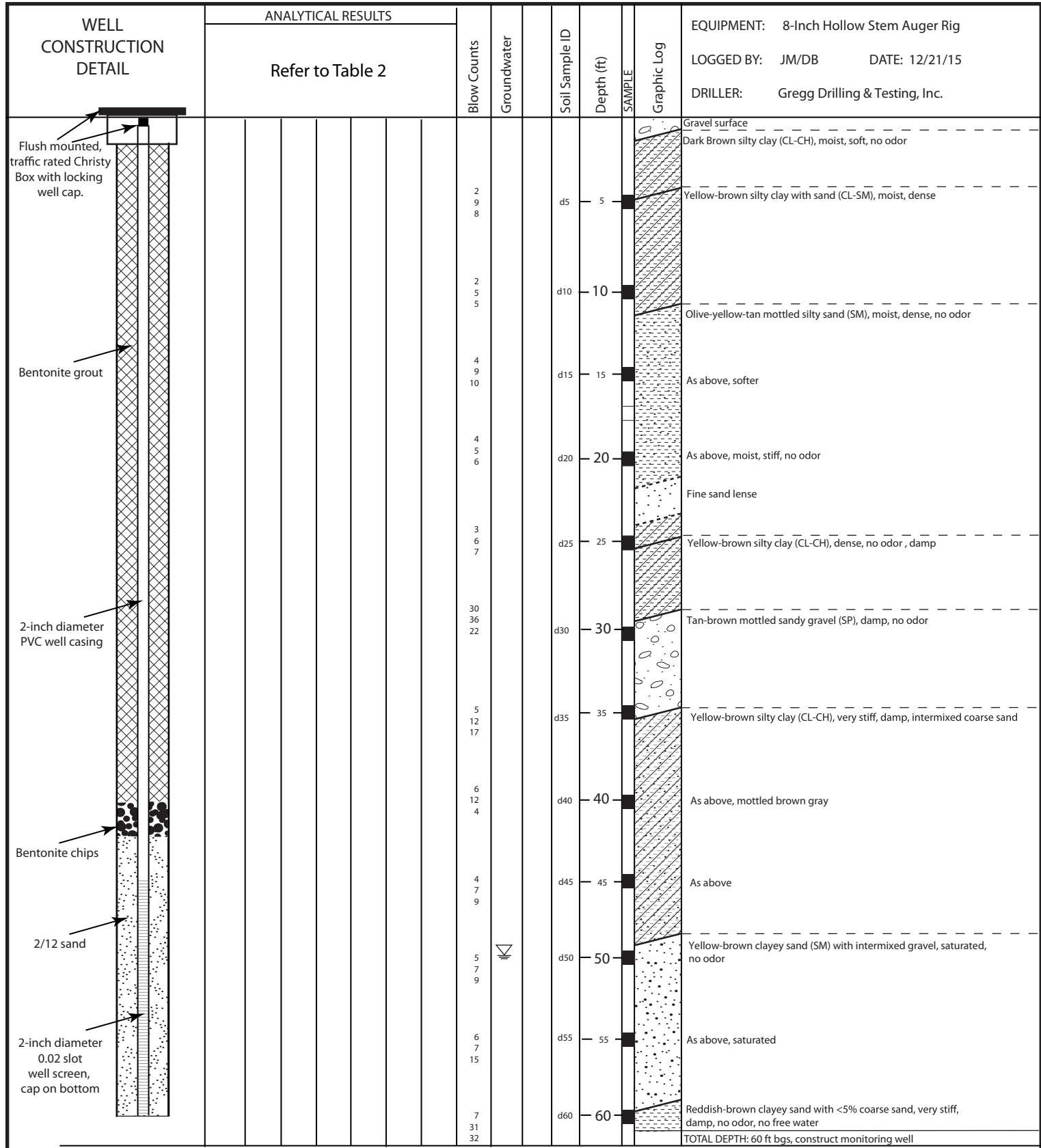
LITHOLOGIC LOG OF MW-1

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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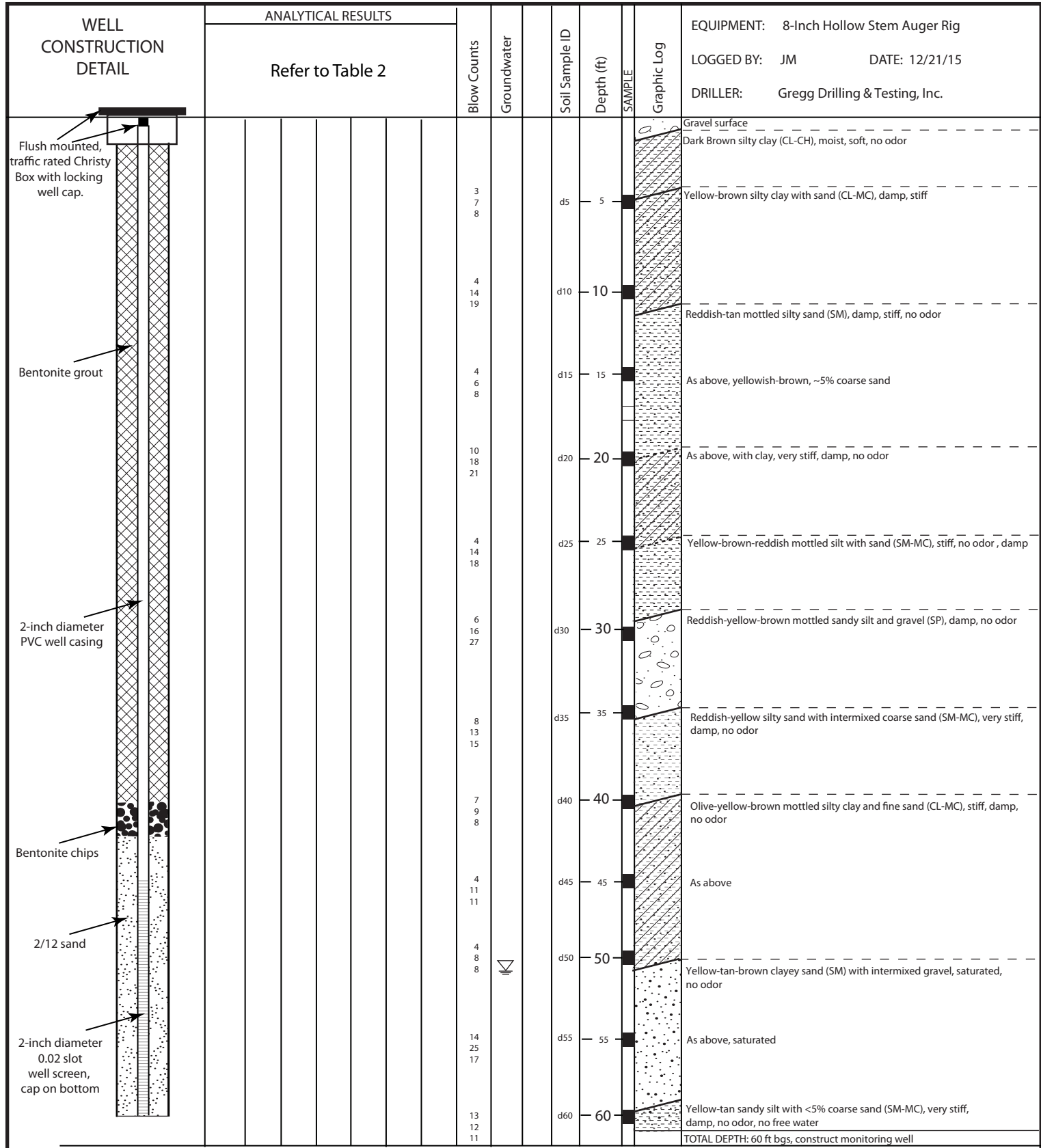
LITHOLOGIC LOG OF MW-2

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/MW-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	ND	3.2	*1800/15	0.29	ND	32	6.4	19	8.1	ND	0.22	23	ND	0.21	ND	28	36
B1-d6.0	10/29/2015	1.5	8.4	100	*	**	ND	2.1	270	0.37	ND	21	8	13	5.9	0.041	ND	23	ND	0.1	ND	22	40
B1-d9.5	10/29/2015	11	2100	1500	*	**	ND	3.3	280	0.35	ND	19	6.6	9.1	5.7	ND	ND	21	ND	0.14	ND	26	30
B1-d15.0	10/29/2015	ND	72	120	ND	ND	ND	3	250	0.3	ND	15	5.9	8	5.1	ND	0.07	16	ND	0.12	ND	25	37
B1-d20.0	10/29/2015	ND	ND	ND	ND	ND	ND	1.6	96	0.14	ND	6.3	2.7	4.5	2.8	ND	ND	6.8	1.3	ND	ND	15	13
B1-d25.0	10/29/2015	ND	ND	ND	ND	**	ND	5.7	140	0.36	ND	*58/ND	15	29	8	0.036	ND	140	1.4	0.22	ND	34	45
B1-d30.5	10/29/2015	ND	ND	ND	ND	ND	ND	4.6	130	0.31	ND	50	15	25	7.1	0.063	ND	120	ND	0.22	ND	32	39
B1-d35.5	10/29/2015	ND	ND	ND	ND	ND	ND	3	120	0.44	ND	19	8.6	17	6.4	0.051	ND	18	ND	0.13	ND	28	52
B1-d40.0	10/29/2015	ND	ND	ND	ND	ND	ND	2.7	95	0.37	ND	15	6.5	12	5.5	ND	0.09	19	ND	0.16	ND	26	36
B1-d46.0	10/29/2015	ND	ND	ND	ND	ND	ND	2.3	58	0.45	ND	20	8	16	6.4	0.04	0.084	20	ND	0.08	ND	27	46
B1-d47.5	10/29/2015	ND	ND	ND	ND	ND	ND	3.4	59	0.31	ND	16	6.5	18	4.5	ND	0.11	20	1.4	0.12	ND	28	75
MW1-d50.5	12/21/2015	ND	ND	ND	ND	ND	ND	31	40	0.3	ND	17	7.2	9.8	4.4	0.039	0.3	18	ND	0.21	ND	31	22
MW1-d55.5	12/21/2015	ND	ND	ND	ND	ND	ND	5.4	31	0.3	ND	37	11	22	5.2	ND	0.16	88	ND	0.24	ND	29	36
MW1-d61	12/21/2015	ND	ND	ND	ND	ND	ND	5.5	20	0.23	ND	43	13	19	6.2	0.041	ND	94	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						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 Sample Results in mg/Kg
Water Sample in ug/L unless noted
TPH=Total Petroleum Hydrocarbons as gas(g), diesel(d) and motor oil(mo)
VOC=Volatile Organic Compounds
D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity
* Refer to Attached Analytical Reports for Minor Detections <0.05
** Refer to Attached Analytical Reports for Minor Detections <0.2

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 (TTLIC)																
							Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mg	Mo	Ni	Se	Ag	Ti	V	Zn
B2-d5.0	12/21/2015	ND	ND	ND	ND	ND	ND	3.6	280	0.33	ND	17	6.5	11	4.7	ND	0.2	21	ND	ND	ND	24	28
B12-d10.5	12/21/2015	ND	ND	ND	ND	ND	ND	5.3	370	0.39	ND	18	7.6	11	5.4	ND	0.11	20	ND	0.17	ND	30	31
B2-d15.0	12/21/2015	ND	ND	ND	ND	ND	ND	2.2	180	0.16	ND	7.3	3.7	5.6	2.9	ND	0.1	8.4	ND	0.1	ND	16	17
B2-d20.0	12/21/2015	ND	ND	ND	ND	ND	ND	3.5	350	0.29	0.063	15	6.1	14	4.4	ND	0.16	16	ND	0.24	ND	25	30
B2-d25.0	12/21/2015	ND	ND	ND	ND	ND	ND	2	190	0.2	ND	10	4	5.4	3.2	ND	0.05	10	ND	0.11	ND	19	14
B2-d30.0	12/21/2015	ND	ND	ND	ND	ND	ND	6.4	89	0.18	ND	98	31	30	3.1	0.081	ND	280	ND	0.34	0.71	33	43
B2-d35.0	12/21/2015	ND	ND	ND	ND	ND	ND	4.3	150	0.49	0.096	21	7.7	12	5.7	ND	ND	31	ND	0.22	ND	29	29
B2-d40.0	12/21/2015	ND	ND	ND	ND	ND	ND	5.3	130	0.43	ND	17	8.3	11	5.7	ND	0.093	27	ND	0.13	ND	32	28
B2-d45.0	12/21/2015	ND	ND	ND	ND	ND	ND	2.7	96	0.49	ND	23	6.1	11	5.3	ND	ND	18	ND	0.15	ND	23	29
B2-d50.0	12/21/2015	ND	ND	ND	ND	ND	ND	3.6	50	0.35	ND	19	6.1	14	4	ND	0.16	20	ND	0.17	ND	25	26
B2-d55.0	12/21/2015	ND	ND	ND	ND	ND	ND	4.2	61	0.27	ND	22	5.4	13	3.7	ND	0.064	20	ND	0.23	ND	30	32
B2-d60.5	12/21/2015	ND	ND	ND	ND	ND	ND	3.7	24	0.25	ND	30	6.5	13	3.3	0.061	0.11	35	ND	0.26	ND	20	24
Water/ug/L																							
MW-2	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GenMinerals						Ca		Mg		Na		K		Bicarbonate	Carbonate	Chloride	Nitrite	Sulfate	pH	EC	TDS	Boron	
						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
 D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity
 * Refer to Attached Analytical Reports for Minor Detections <0.05
 ** Refer to Attached Analytical Reports for Minor Detections <0.2

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	ND	ND	ND	ND	ND	4.2	230	0.37	ND	21	8	9.2	5	ND	ND	27	ND	0.087	ND	27	28
B3-d10.5	12/22/2015	ND	ND	ND	ND	ND	ND	4.2	460	0.39	ND	22	6.4	13	4.6	ND	ND	22	ND	0.19	ND	32	33
B3-d15.5	12/22/2015	ND	ND	ND	ND	ND	ND	3.3	220	0.29	ND	17	6.3	8.1	3.9	ND	ND	19	ND	0.15	ND	24	26
B3-d20.5	12/22/2015	ND	ND	ND	ND	ND	ND	4.1	170	0.48	ND	19	10	12	6.6	ND	ND	25	ND	0.097	ND	28	29
B3-d25.5	12/22/2015	ND	ND	ND	ND	ND	ND	4.7	110	0.39	ND	33	13	18	6.1	0.053	0.12	65	ND	0.21	0.94	31	36
B3-d30.5	12/22/2015	ND	ND	ND	ND	ND	ND	4.9	86	0.28	ND	65	15	24	5.3	0.06	ND	170	ND	0.32	1.1	30	42
B3-d35.5	12/22/2015	ND	ND	ND	ND	ND	ND	3.6	100	0.33	ND	14	9.4	11	6.2	ND	0.43	52	ND	0.17	ND	25	22
B3-d40.5	12/22/2015	ND	ND	ND	ND	ND	ND	2.7	76	0.51	ND	23	9.2	12	6.8	0.038	0.14	35	ND	0.21	ND	24	31
B3-d45.5	12/22/2015	ND	ND	ND	ND	ND	ND	3.6	190	0.44	0.081	21	7.9	12	5.5	ND	0.087	27	ND	0.23	ND	28	29
B3-d50.5	12/22/2015	ND	ND	ND	ND	ND	ND	5.1	110	0.38	ND	19	7.8	11	4.5	ND	0.2	26	ND	0.2	ND	35	28
B3-d55.5	12/22/2015	ND	ND	ND	ND	ND	ND	8.2	38	0.26	ND	10	5.6	14	3.6	0.082	0.6	14	ND	0.22	ND	28	28
B3-d60.5	12/22/2015	ND	ND	ND	ND	ND	ND	4.6	33	0.28	ND	28	11	18	7	0.043	0.43	55	ND	0.23	0.88	27	33
Water/ug/L																							
MW-2	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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)
 VOC=Volatile Organic Compounds
 D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity
 * Refer to Attached Analytical Reports for Minor Detections <0.05
 ** Refer to Attached Analytical Reports for Minor Detections <0.2

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 (TTLC)															
					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	21	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.029
Well #2	12/21/2015	14/330	270/1.2	1500	<10	ND	ND	ND	ND	0.011	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	ND	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)
VOC=Volatile Organic Compounds; ND=Not Detected at or above laboratory detection limits
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-2Borehole Diameter 8"

Qty. of Drilling Fluid Lost _____

Date 1.6.11Screen Length 15 FT

Minimum Gal. to be Purged _____

Time Start: 815 End: 1110Measured Depth (pre-development) 59.40Development Method Bail SurgeClient ESBMeasured Depth (post-development) 59.65Bail-pump

Project _____

Static Water Level (ft.) 48.60Purging Equipment SS Bail/Air - 2" pumpJob Number D2150527

Standing Water Column (ft.) _____

Water Level Equipment Solink

Installation Date _____

One Casing Volume (gal.) _____

pH/EC Meter HANNA USAWell Diameter 2"

One Annulus Vol. (gal.) _____

Turbidity Meter HANNA USA

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:

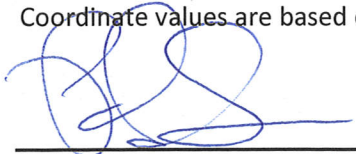
PID: AA3816

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 S ₂ O ₃
1219	7.52	18.13	9.17	2180	1390	164	230	2.5	CLEAR
1222	7.41	18.16	10.11	2220	1430	169	190	5	CLEAR, NO O ₂ OR S ₂ O ₃
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 DESCENT
 SAMPLE CONTAINERS: 3 VOA, 2 L, PLASTIC
 TESTS REQUIRED: 8015, 8260, 8270, 6010
 ANALYTICAL LAB: Analytical Sciences, Petaluma
 COMMENTS: WATER CLEAR WHEN SAMPLED,
NO O₂ OR S₂O₃ OBSERVED

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 538.0915
 DATE: 1-12-16
 JOB NAME: GIG FACILITY
 JOB ADDRESS: 8467 PATTERSON AVE
 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 L Amber, 1 L 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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Total Concentrations (TTLC).....	23
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	27
Total Petroleum Hydrocarbons.....	31
Total Concentrations (TTLC).....	32
1532856-03 - B2-15.0	
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
1532856-04 - B2-20.0	
Volatile Organic Analysis (EPA Method 8260B).....	42
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	45
Total Petroleum Hydrocarbons.....	49
Total Concentrations (TTLC).....	50
1532856-05 - B2-25.0	
Volatile Organic Analysis (EPA Method 8260B).....	51
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	54
Total Petroleum Hydrocarbons.....	58
Total Concentrations (TTLC).....	59
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Volatile Organic Analysis (EPA Method 8260B).....	60
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	63
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	74
Total Petroleum Hydrocarbons.....	78
Total Concentrations (TTLC).....	79
1532856-08 - B2-40.0	
Volatile Organic Analysis (EPA Method 8260B).....	80
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	83
Total Petroleum Hydrocarbons.....	87
Total Concentrations (TTLC).....	88
1532856-09 - B2-45.0	
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	92
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Table listing various analytical methods and their corresponding page numbers, including sections for Total Petroleum Hydrocarbons, Volatile Organic Analysis, and Base Neutral and Acid Extractables Organic Analysis.

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Total Petroleum Hydrocarbons.....	214
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1532856-23 - B3-d40.5	
Volatile Organic Analysis (EPA Method 8260B).....	216
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	219
Total Petroleum Hydrocarbons.....	223
Total Concentrations (TTLC).....	224
1532856-24 - B3-d45.5	
Volatile Organic Analysis (EPA Method 8260B).....	225
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Laboratories, Inc.

Chain of Custody Form

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

Attn: *Territa Brady* Project Name:

Street Address: *1600 North Rd*

City, State, Zip: *Bakersfield* Sampler(s): *J.A. Moore*

Phone: Fax:

Email Address: *jbrad@ebresources.com*

Work Order # *15032856*

Sample #	Description	Date Sampled	Time Sampled	Analysis Requested	Sample Matrix	Turnaround # of work days*	Notes
B2-50 -1		12/21/15	7:05	CHM 17 metals	Sludge		
B2-10 -2			7:11	8220 incl 18	Drinking Water		
B2-15 -3			7:15	8220 incl 18	Ground Water		
B2-20 -4			7:20	8220 incl 18	Waste Water		
B2-25 -5			7:26	8220 incl 18	Other		
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				

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

* Standard Turnaround = 10 work days

Comments: *Standard T.A.T.*

EDF Required? Yes No

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

Global ID (Needed for EDT)

1. Relinquished By: *Donny Bogen* Date: *12/22/15* Time: *10:40*

2. Relinquished By: *Donny Bogen* Date: *12/22/15* Time: *18:30*

3. Relinquished By: *Donny Bogen* Date: *12/22/15* Time: *18:30*

EDF Geotracker

1. Received By: *Donny Bogen* Date: *12/22/15* Time: *10:40*

2. Received By: *Donny Bogen* Date: *12/22/15* Time: *18:30*

3. Received By: *Donny Bogen* 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



Laboratories, Inc.

Report for: E&B Nuclear Resources Project #: 616 Page 2 of 2

Attn: Jennifer Brady Project Name:

Street Address: Woodbury Rd

City, State, Zip: Bakersfield Sampler(s): Jeff Monroe

Phone: Fax:

Email Address: jbrady@bcresearch.com

Work Order #: 15-32856

Sample #	Description	Date Sampled	Time Sampled	Analysis Requested	System # (Needed for EDT)
MW-50.5 -13		12/15	11:22	CHM 17 Metals	
MW-455.5 -14		V/V	11:30	820 Soil WCs	
MW-461.0 -15		V/V	11:40	820 Soil WCs	
BS-45.5 -16		12/22/15	7:22	TPH & 800	
BS-410.5 -17			7:28		
BS-415.5 -18			7:34		
BS-420.5 -19			7:40		
BS-425.5 -20			7:58		
BS-430.5 -21			7:59		
BS-435.5 -22			8:05		
BS-441.5 -23			8:15		
BS-445.5 -24			8:24		
BS-450.5 -25			8:30		
BS-465.5 -26			8:38		
BS-460.5 -27			8:38		

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 Matrix: Drinking Water Ground Water Waste Water Other

Turnaround # of work days: _____

Notes: _____

EDF Required Geotracker: Yes No

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

Client: E&B Address: Same as above City: _____ State: _____ Zip: _____

1. Received By: Steve Hogan Date: 12/22/15 Time: 10:40

2. Received By: Steve Hogan Date: 12/22/15 Time: 18:30

3. Received By: Steve Hogan Date: 12/22/15 Time: 18:30

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 <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____				
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>				
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.9702 Container: Soil Sleeve Thermometer ID: 208 MIB 12/22/15 228 12/22/15		Date/Time 12/22/15 Analyst Init KIB 2511
Temperature: (A) 1.2 °C / (C) 1.4 °C				

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: 12-23-15 1100 Rev 20 07/24/2015
 A = Actual / C = Corrected

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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 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: 0.9703 Container: Soil Sleeve Thermometer ID: 208 Date/Time: 12/22/15
 228 12/22/15
 Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init: KIB 2311

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: WJ Date/Time: 12-22-15 1106 Rev 20 07/24/2015

A = Actual / C = Corrected

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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 12/22/15
 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

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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

Laboratory / Client Sample Cross Reference

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

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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

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

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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

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
	<hr/>			
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
	<hr/>			
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
	<hr/>			
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
	<hr/>			
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
	<hr/>			
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
	<hr/>			

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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: 1532856-01	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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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: 1532856-01		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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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
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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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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 #
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: 1532856-01 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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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
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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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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: 1532856-01	Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe
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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
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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: 1532856-02		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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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
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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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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: 1532856-02	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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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: 1532856-02	Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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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

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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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 #
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)	97.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.0	%	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: 1532856-03	Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe
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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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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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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
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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)	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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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	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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Bakersfield, CA 93308

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

Total Petroleum Hydrocarbons

BCL Sample ID: 1532856-03	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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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: 1532856-03	Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe
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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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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	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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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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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
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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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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
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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: 1532856-04 **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 #
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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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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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: 1532856-04	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
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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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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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 #
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)	111	%	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: 1532856-05	Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/23/15	12/24/15 04:50	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: 1532856-05 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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1600 Norris Road
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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	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
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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)	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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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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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
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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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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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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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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
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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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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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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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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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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: 1532856-06	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
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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
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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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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: 1532856-06	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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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

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: 1532856-07		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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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: 1532856-07	Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe
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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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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	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: 1532856-07 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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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 #
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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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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E & B Natural Resources Management Corp.
1600 Norris Road
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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: 1532856-07	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
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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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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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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						
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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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
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	12/23/15	12/24/15	05:58	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: 1532856-08 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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1600 Norris Road
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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: 1532856-08 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
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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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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: 1532856-08		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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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: 1532856-08	Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe
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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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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 #
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		Instrument	Dilution	QC
			Date/Time	Analyst			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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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
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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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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: 1532856-09	Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe
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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 Date/Time	Analyst	Instrument	Dilution	QC 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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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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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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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		Instrument	Dilution	QC
			Date/Time	Analyst			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	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: 1532856-10 **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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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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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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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: 1532856-10	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
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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 Date/Time	Analyst	Instrument	Dilution	QC 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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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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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
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC 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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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: 1532856-11 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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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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E & B Natural Resources Management Corp.
1600 Norris Road
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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: 1532856-11	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 Date/Time	Analyst	Instrument	Dilution	QC 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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1600 Norris Road
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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: 1532856-12	Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe
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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: 1532856-12		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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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
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/23/15	12/24/15 07:30	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: 1532856-12 **Client Sample Name:** B2-60.5, 12/21/2015 8:27:00AM, 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: 1532856-12	Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe
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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: 1532856-12 **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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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: 1532856-12	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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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: 1532856-12	Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe
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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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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
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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: 1532856-13	Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe
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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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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
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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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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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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
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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: 1532856-13		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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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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1600 Norris Road
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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: 1532856-13	Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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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
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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: 1532856-14		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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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
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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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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
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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: 1532856-14	Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe
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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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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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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: 1532856-14		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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1600 Norris Road
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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: 1532856-15	Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe
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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: 1532856-15		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
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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: 1532856-15	Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe
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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
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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
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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
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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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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: 1532856-15	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
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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: 1532856-15	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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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
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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: 1532856-16	Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe
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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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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
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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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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
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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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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: 1532856-16	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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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: 1532856-16	Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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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
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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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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
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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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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
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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
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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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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: 1532856-17	Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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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
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	12/23/15	12/24/15	15:58	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: 1532856-18 **Client Sample Name:** B3-d15.5, 12/22/2015 7:31:00AM, 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: 1532856-18 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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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
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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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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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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: 1532856-18	Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe
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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
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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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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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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
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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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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	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: 1532856-19 **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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1600 Norris Road
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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: 1532856-19	Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe
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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)	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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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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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
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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 Date/Time	Analyst	Instrument	Dilution	QC 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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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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1600 Norris Road
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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: 1532856-20		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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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
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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	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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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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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
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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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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: 1532856-20	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
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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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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
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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: 1532856-21		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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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
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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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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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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
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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: 1532856-21	Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe
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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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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: 1532856-21	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
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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 Date/Time	Analyst	Instrument	Dilution	QC 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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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

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: 1532856-22		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
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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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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	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
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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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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 #
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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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: 1532856-22	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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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: 1532856-22	Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe
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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		Analyst	Instrument	Dilution	QC
			Date/Time					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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1600 Norris Road
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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: 1532856-23 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
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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: 1532856-23	Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe
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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
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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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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: 1532856-23	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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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: 1532856-23	Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe
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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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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
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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
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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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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
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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: 1532856-24	Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe
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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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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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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: 1532856-24		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		Instrument	Dilution	QC
			Date/Time	Analyst			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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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
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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: 1532856-25		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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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
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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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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	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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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
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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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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: 1532856-25	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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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: 1532856-25	Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe
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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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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
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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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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
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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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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
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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: 1532856-26	Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe
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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: 1532856-26		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
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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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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	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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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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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
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	12/23/15	12/24/15	19:22	ADC	MS-V2	1	BYL2307

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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: 1532856-27	Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe
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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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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
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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
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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		Instrument	Dilution	QC
			Date/Time	Analyst			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
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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	
Tetrachloroethane	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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1600 Norris Road
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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)

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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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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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 Quals
								Percent Recovery	Percent Recovery	
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
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QC Batch ID: BYL2622

p-Terphenyl-d14 (Surrogate)	BYL2622-BLK1	72.4	%	30 - 150 (LCL - UCL)		
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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

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes a QC Batch ID: BYL2622 and a list of various chemical compounds with their respective test 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

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 Quails. 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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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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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	Control Limits		Lab Quals
								Percent Recovery	RPD	
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
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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 (TTLIC)

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	
Surrogate: Tetraetracontane	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	
Surrogate: Toluene-d8	96.0 %	76-129		AL53416	12/23/15 09:00	12/23/15 15:19	8260GRO	

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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								
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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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 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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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
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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	
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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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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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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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3287 Congressional Court
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 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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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
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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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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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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
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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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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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Reported:
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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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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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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
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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: 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
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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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Project Number: 8477 Patterson Pass

Reported:
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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: 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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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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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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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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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 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			
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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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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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	
<i>Surrogate: Dibromofluoromethane</i>	22.4		ug/L	25.0		89.8	46-130			
<i>Surrogate: Toluene-d8</i>	23.7		ug/L	25.0		94.8	59-132			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

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										
<i>Surrogate: Bromofluorobenzene</i>	24.2		ug/L	25.0		96.8	81-135			



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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

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
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 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: [Signature] Date: 12/22/15 Received By: agustin v. 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 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
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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 Limits	RPD	RPD Limit	Notes
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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>	20.2		<i>µg/L</i>	20.0		101	70-130
<i>Surrogate: Toluene-d8</i>	19.0		<i>µg/L</i>	20.0		95	70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	20.2		<i>µg/L</i>	20.0		101	70-130



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	%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	%REC Limits	RPD	RPD Limit	Notes
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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
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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
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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
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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 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**

Geotracker EDF: Y N
 Global ID: T10000007269

TURNAROUND TIME (check one)

Same Day _____
 48 Hours _____ 24 Hours _____
 5 Days _____ Normal

Cooler Temperature
10.00 °C

Page 1 of 1

ANALYSIS

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	Volatiles	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	Comments	Lab Sample #
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: _____

Signature

Sampled By: DAVID BUSH

1/12/16 1570
 Date Time

Received By: _____

Signature

1-12-16 1510
 Date Time