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October 25, 2011

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

10:01 am, Oct 28, 2011

Alameda County
Environmental Health

Re: Chevron Facility # 9-7127

Address: Grant Line Road and Interstate 580, Tracy, California

I have reviewed the attached report titled *Additional Investigation and Well Installation Report* and dated October 25, 2011.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Olivia Skance
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

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October 25, 2011

Reference No. 631656

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Additional Investigation and Well Installation Report
Former Chevron Service Station 9-7127
I-580 and Grant Line Road
Tracy, California
LOP Case #RO0000185

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) has prepared this *Additional Investigation and Well Installation Report* on behalf of Chevron Environmental Management Company (Chevron) presenting the results of the recent investigation at the site referenced above. In a letter dated December 16, 2010 (Attachment A), ACEH requested additional site characterization to further evaluate the residual source area, evaluate hydrogeologic conditions, and more closely define the extent of light non-aqueous phase liquid (LNAPL). To address these requests, CRA installed monitoring wells MW-9 through MW-15 and drilled exploratory borings B-8 through B-12. The work was performed in general accordance with the March 14, 2011 *Work Plan for Additional Investigation* (work plan); approved by ACEH in a letter dated April 27, 2011 (Attachment A). Please note that in the April 27, 2011 letter, ACEH requested submission of this report by July 15, 2011; however, in an e-mail to CRA on August 31, 2011, ACEH granted an extension of this due date to October 28, 2011. Presented below are the site description and background, the details and results of the investigation, and our conclusions and recommendations.

SITE DESCRIPTION AND BACKGROUND

The site is a vacant lot located on the east side of Grant Line Road, just south of Interstate-580 in rural Tracy (Figure 1). The site is situated in the rolling foothills east of Altamont Pass, at an elevation of approximately 320 feet above mean sea level. The property was developed by cutting into the sandstone bedrock of the hillside and filling; hence, the elevation drops off on the north, east, and south sides of the site. The site is bounded by an Interstate-580 on-ramp to the north, Grant Line Road to the west, and undeveloped (grazing) land to the south and east. Chevron operated a service station at the site from 1971 to 1986. Former station facilities

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included two 10,000-gallon and one 6,000-gallon gasoline underground storage tanks (USTs), a 1,000-gallon used-oil UST, a 750-gallon heating oil UST, two dispenser islands, and a station building (Figure 2). The station closed in 1986, and was demolished in 1991. The site has since remained vacant land. We understand from the property owner, Mr. Ardavan Onsori, that the site is proposed for redevelopment with a new service station.

A water-supply well (WSW-1) is present onsite (Figure 2). The well formerly supplied the station (reportedly supplied water for the restroom only as water in the area is non-potable). Well WSW-1 is currently used for livestock by the adjacent ranch owner. Based on annual sampling results, the well is not impacted. According to Mr. Onsori, use of the well is to be incorporated into the planned development.

Environmental work has been ongoing since 1987 and prior to the current investigation has included a soil vapor survey; the drilling of exploratory borings B-1 through B-7 in 1987, B-1 in 1992, and B-3 in 1993; the installation of monitoring wells MW-1 through MW-8 both onsite and offsite, and confirmation soil sampling during station demolition/UST removal. Remedial excavation was performed in the former UST and dispenser areas (Figure 2). Wells MW-1, MW-3, MW-4, and MW-6 are sampled semi-annually during the second and fourth quarters; the remaining wells are sampled annually during the second quarter. Well MW-8 was damaged by a vehicle and is unable to be sampled. The water-supply well is sampled annually during the fourth quarter. A summary of the environmental work is included as Attachment B as well as historical data. The approximate well, boring, and sample locations are shown on Figure 2.

LNAPL (generally less than 2 feet in thickness) has historically been observed in MW-1 located just downgradient of the former gasoline USTs. During the last five monitoring events, LNAPL (less than 1-foot in thickness) has also been observed in next downgradient well MW-3 located approximately 100 feet from MW-1 (Figure 2); so it appears to have slowly migrated from the source area. Numerous remedial technologies (hand bailing, skimmers, bioremediation, groundwater extraction, hydrogen peroxide injection) have been implemented at the site; however, none have been successful in mitigating the LNAPL.

CRA previously submitted the October 4, 2010 *Vacuum Extraction Event Report and Work Plan for Surfactant-Enhanced Recovery* that documented a vacuum extraction event/pilot test performed in May 2010 to remove LNAPL and evaluate hydrogeologic conditions for the potential use of surfactant-enhanced recovery (SER) as a remedial option. Based on the results, SER appeared feasible and it was proposed to address the residual LNAPL. However, in the December 16, 2010 letter, ACEH requested additional site characterization prior to implementation of any remedial action. Therefore, in the March 14, 2011 work plan, the drilling of five additional borings and the installation of seven additional wells was proposed.



The well locations were selected to accommodate the proposed site redevelopment plans we received from the property owner (Figure 2). Please note that the Technical Comments (1-4) in the April 27, 2011 ACEH letter were addressed in CRA's June 30, 2011 *Response to Technical Comments and Additional Information Request*.

INVESTIGATION ACTIVITIES

Monitoring wells MW-9 through MW-15 were installed and borings B-8 through B-12 were advanced onsite to further evaluate the residual source area and hydrogeologic conditions, and more closely define the extent of LNAPL. Borings B-8 through B-12 were located in the area of the former dispensers and gasoline USTs, and wells MW-9 through MW-15 were installed throughout the eastern portion of the site. The approximate well and boring locations are shown on Figure 2. Please note that the location of MW-11 changed slightly from that originally proposed due to drill rig access issues. The details of the investigation are presented in the following sections. Fieldwork was performed from August 22 through 26, 2011 by CRA staff John Bostick, Ben Summersett, and Oliver Yan under the supervision of James Kiernan, P.E.

Drilling Activities

Prior to drilling, CRA obtained Permit No. 2011080 from Zone 7 Water Agency for the monitoring wells and borings. A copy of the permit is included as Attachment C. Drilling activities were performed by Boart Longyear (C-57 License #694686) of Yuba City, California, under the supervision of CRA.

The upper 8 feet of the borings were first cleared for underground utilities using an air-knife with vacuum equipment or a hand-auger in accordance with Chevron and CRA safety protocols. Following utility clearance, the borings were advanced to the total depth (ranging from approximately 30 to 47 feet below grade [fbg]) using a track-mounted rig equipped with sonic drilling technology. The sonic technology utilizes 4-inch diameter drill rods with a 6-inch diameter outer casing that remains in place during drilling.

Soil samples were obtained continuously from the borings for logging and observation purposes. *The soil encountered in the borings was logged in general accordance with American Society for Testing and Materials (ASTM) D-2488 protocols. Interbedded layers of fine-grained to coarse-grained fill material (primarily sands) were encountered overlying bedrock (sandstone), which was encountered at depths ranging from 7.5 to 19.5 fbg to the bottom of the borings. The sandstone was moderately to highly weathered, and parting was common at bedding planes.* Copies of the boring logs are included in Attachment C. Soil samples were screened in the field for the presence of organic vapors using a photo-ionization detector (PID) and visually observed for any evidence of petroleum



hydrocarbon impact. The PID measurements are also presented on the boring logs. Groundwater was encountered in the borings at depths of approximately 26 to 29 fbg within the sandstone. CRA's standard field procedures are included as Attachment D. Updated geologic cross-sections presenting the best available information on the subsurface are presented on Figures 3 through 5.

Soil Sampling and Laboratory Analysis

Soil samples were collected from the exploratory and well borings at approximately 5-foot intervals and retained for laboratory analysis. Additional soil samples were collected from borings B-9, B-11, and MW-10 due to elevated PID measurements. The samples at 5 fbg were collected using the hand auger. Below 8 fbg, the samples were collected using the sonic equipment driven into undisturbed soil at the bottom of the borehole at each interval and placed in plastic tubular bags for observation and sampling. The soil samples were collected in stainless steel liners, capped with Teflon tape and plastic end caps, labeled, placed in an ice-chilled cooler, and transported under chain-of-custody to Lancaster Laboratories, Inc. (Lancaster) in Lancaster, Pennsylvania, for analysis. The soil samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B.
- Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B.

Groundwater Sampling and Laboratory Analysis

A groundwater sample was collected from boring B-8. The sample was collected by removing the drill rods, setting temporary slotted PVC casing in the borehole, retracting the outer casing several feet to allow for the infiltration of groundwater, and lowering a disposable Teflon bailer down the PVC casing to the screen zone. The groundwater sample was collected in the appropriate laboratory-supplied containers, placed in an ice-chilled cooler, and transported under chain-of-custody to Lancaster for analysis. The groundwater sample was analyzed for the same constituents as the soil samples. No groundwater samples for laboratory analysis were collected from borings B-9 through B-12 as LNAPL was observed (observed thickness in bailer ranging from approximately 0.1 to 0.3 inches).

Monitoring Well Installation

Monitoring wells MW-9 through MW-15 were constructed using 2-inch diameter, Schedule 40 PVC casing with 0.010-inch factory-machined slots. The wells generally had 10-foot screen intervals beginning at depths ranging from 22 to 27 fbg based on the observed depth to groundwater; MW-13 has a 15-foot screen interval beginning at 24 fbg.



Monterey Sand #2/16 was used as a filter pack from the bottom of the borings to 2 feet above the top of the screen. Two feet of hydrated bentonite was placed above the sand pack, and the remainder of the annular space was filled with neat Portland cement to approximately 6 inches below grade. The casing for each well extended approximately 3 feet above the ground surface, and stovepipe well boxes were installed. Well construction diagrams are shown on the boring logs in Attachment C. The construction details of the new and previously installed wells are also presented in Table 1.

Well Surveying

The top of casing and ground surface elevations of all the site wells were surveyed relative to mean sea level by Virgil Chavez Land Surveying, a California-licensed land surveyor, on September 6, 2011. The horizontal well coordinates were also measured in accordance with AB2886 (GeoTracker) requirements. The survey information was uploaded into the GeoTracker database. Copies of the well survey report and map are included as Attachment E.

Well Development and Sampling

The newly installed wells will be developed to remove fine-grained material at least 72 hours prior to the upcoming groundwater monitoring event, which is scheduled for late-November. The wells will be incorporated into the existing site monitoring and sampling program, but will be sampled quarterly for at least a year. The sampling results will be presented in the corresponding groundwater monitoring report.

Investigation-Derived Waste

Soil cuttings and decontamination rinsate generated during drilling activities were temporarily stored onsite in DOT-approved 55-gallon drums, and sampled for disposal purposes. Once profiled, the drums will be removed from the site and transported to an appropriately-permitted facility for disposal.

SOIL SAMPLE ANALYTICAL RESULTS

TPHg generally was not detected in the soil samples collected from 5 to 20 fbg with the exception of those at 10 fbg from boring MW-10 (3.7 milligrams per kilogram [mg/kg]) and at 20 fbg from borings B-12 (440 mg/kg) and MW-10 (870 mg/kg); these borings were located within the former gasoline UST excavation. Only a few of the deeper samples (25-35 fbg) collected from borings B-8, B-12, MW-9, and MW-14 contained TPHg (up to 62 mg/kg). Higher TPHg concentrations (ranging from 1,400 to 7,600 mg/kg) were detected in the samples collected at or near the groundwater interface (25-30 fbg) from borings B-9, B-11, MW-10, and MW-11; however, in the deeper samples (30 and/or 35 fbg) collected from these borings, only



those from MW-10 and MW-11 contained TPHg (up to 58 mg/kg). No TPHg was detected in the soil samples collected from borings B-10, MW-12, MW-13, or MW-15.

The highest BTEX concentrations detected were 120 mg/kg benzene, 880 mg/kg toluene, 140 mg/kg ethylbenzene, and 680 mg/kg xylenes; the maximum concentrations were all in the sample collected at 27 fbg from boring B-11. BTEX were detected in soil as shallow as 5 fbg and as deep as 35 fbg. Benzene was detected in the majority of the soil samples, but generally at trace concentrations; as with TPHg, the higher concentrations were detected in select borings (B-9, B-11, B-12, MW-10, and MW-11) at or near the groundwater interface. No MTBE was detected in any of the soil samples. The soil sample analytical results are presented in Table 2. A copy of the laboratory report and chain-of-custody documentation is included as Attachment F.

GROUNDWATER SAMPLE ANALYTICAL RESULTS

Petroleum hydrocarbons detected in the groundwater sample collected from boring B-8 consisted of 64,000 micrograms per liter ($\mu\text{g/L}$) TPHg, 24,000 $\mu\text{g/L}$ benzene, 1,500 $\mu\text{g/L}$ toluene, 1,300 $\mu\text{g/L}$ ethylbenzene, and 2,500 $\mu\text{g/L}$ xylenes. No MTBE was detected. The groundwater sample analytical results are presented in Table 3. A copy of the laboratory report and chain-of-custody documentation is included as Attachment F.

CONCLUSIONS AND RECOMMENDATIONS

During this investigation, borings B-8 through B-12 were drilled and monitoring wells MW-9 through MW-15 installed to further evaluate the residual source area and hydrogeologic conditions, and more closely define the extent of LNAPL. Beneath the fill material, sandstone bedrock was first encountered in the borings *at depths ranging from 7.5 to 19.5 fbg and groundwater was encountered at depths of 26 to 29 fbg, confirming that groundwater flow is within the bedrock. Further information on the groundwater flow direction will be obtained when the new wells are sampled.*

Based on the soil sample analytical results, deeper impacts remain in the former source area. The previous remedial excavation in this area was limited to depths of 13 to 15 fbg due to the bedrock. The highest concentrations of TPHg (up to 7,600 mg/kg) were detected in soil at or near the groundwater interface (25 to 27 fbg) in borings B-9, B-11, and MW-10; the detections are likely due to the presence of LNAPL in this area (smear zone). Up to 120 mg/kg benzene was also detected in these samples. Only the shallower samples from boring MW-10 in the former tank pit contained TPHg (up to 870 mg/kg). However, TPHg was not detected in the



samples collected at 30 fbg from borings B-9 and B-11, and significantly lower concentrations were detected in the samples collected at 30 fbg (58 mg/kg) and 35 fbg (3.4 mg/kg) from boring MW-10. Benzene concentrations in these borings also attenuated significantly with depth, indicating adequate definition of the vertical extent of hydrocarbons in soil in the former source area.

Generally, TPHg was not detected or was only detected at low concentrations in the soil samples collected from the remaining borings. However, 4,300 mg/kg TPHg was detected (8.9 mg/kg benzene) in the sample collected at 30 fbg from boring MW-11 located approximately 55 feet northeast (crossgradient) of the former gasoline USTs. The samples collected at 25 fbg and 35 fbg from this boring also contained TPHg, but only up to 56 mg/kg; the shallower samples contained no TPHg. As the only TPHg detections were near the groundwater interface and no tanks or dispensers appear to have been located in this area, this would indicate the presence of impacted groundwater in this area of the site, which would not be expected based on the historical northerly flow direction. As the TPHg concentration at 30 fbg was similar to those in the former source area, this may also indicate the presence of LNAPL in this area. Future sampling of well MW-11 will help to evaluate if some degree of groundwater flow is indeed occurring in this direction from the source area and the possible presence of LNAPL.

Benzene was detected in the majority of the soil samples, although generally at trace concentrations. However, the detections included samples collected at depths well above groundwater (5 to 20 fbg) in the borings for wells MW-9 and MW-11 through MW-15 located a significant distance from the former source area. The cause of the detections is unknown; the laboratory quality control (QC) data appeared to be satisfactory. Regardless, as only trace concentrations were detected at these depths, they do not appear to be a significant concern.

LNAPL was observed on groundwater in borings B-9 through B-12 within and just downgradient of the former source area. The presence of LNAPL in B-9, located between existing wells MW-1 and MW-3, was expected as it is also present in these wells. LNAPL was not observed in boring B-8 approximately 20 feet northwest of B-9, but 64,000 µg/L TPHg and 24,000 µg/L benzene were detected in groundwater. As discussed above, LNAPL may also be present in the area of MW-11. Future sampling of the newly installed wells will help to further evaluate the extent of LNAPL. Once these results are obtained, CRA will evaluate whether our previous recommendation of SER, or an alternative remedial technology, is best suited to address the residual LNAPL. As previously mentioned, the new wells will be sampled on a quarterly basis for at least a year.



**CONESTOGA-ROVERS
& ASSOCIATES**

October 25, 2011

8

Reference No. 631656

We appreciate your assistance on this project and look forward to your reply. If you have any questions or need any additional information, please contact Mr. James Kiernan at (916) 889-8917.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Oliver M. Yan

James P. Kiernan, P.E.



OY/cg/13

Encl.

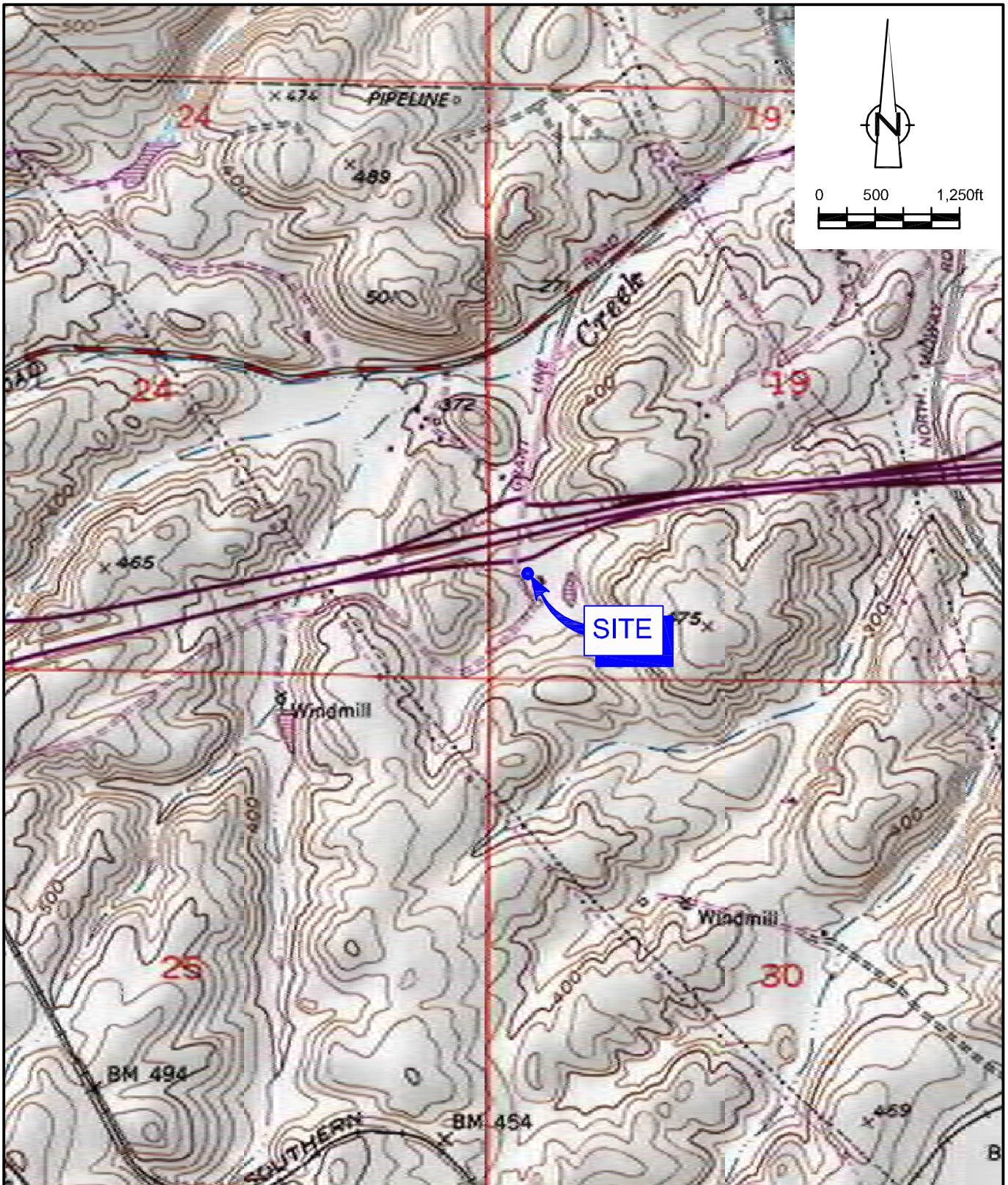
Figure 1 Vicinity Map
Figure 2 Site Plan
Figure 3 Geologic Cross-Section A-A'
Figure 4 Geologic Cross-Section B-B'
Figure 5 Geologic Cross-Section C-C'

Table 1 Well Construction Details
Table 2 Soil Sample Analytical Results
Table 3 Groundwater Sample Analytical Results

Attachment A ACEH Correspondence
Attachment B Summary of Environmental Investigation and Remediation and Historical Data
Attachment C Drilling Permit and Boring Logs
Attachment D Standard Field Procedures
Attachment E Well Survey Report and Map
Attachment F Laboratory Analytical Report

cc: Ms. Olivia Skance, Chevron (*electronic copy*)
Mr. Ardavan Onsori, DM Livermore, Inc.
Mr. Wyman Hong, Zone 7 Water Agency

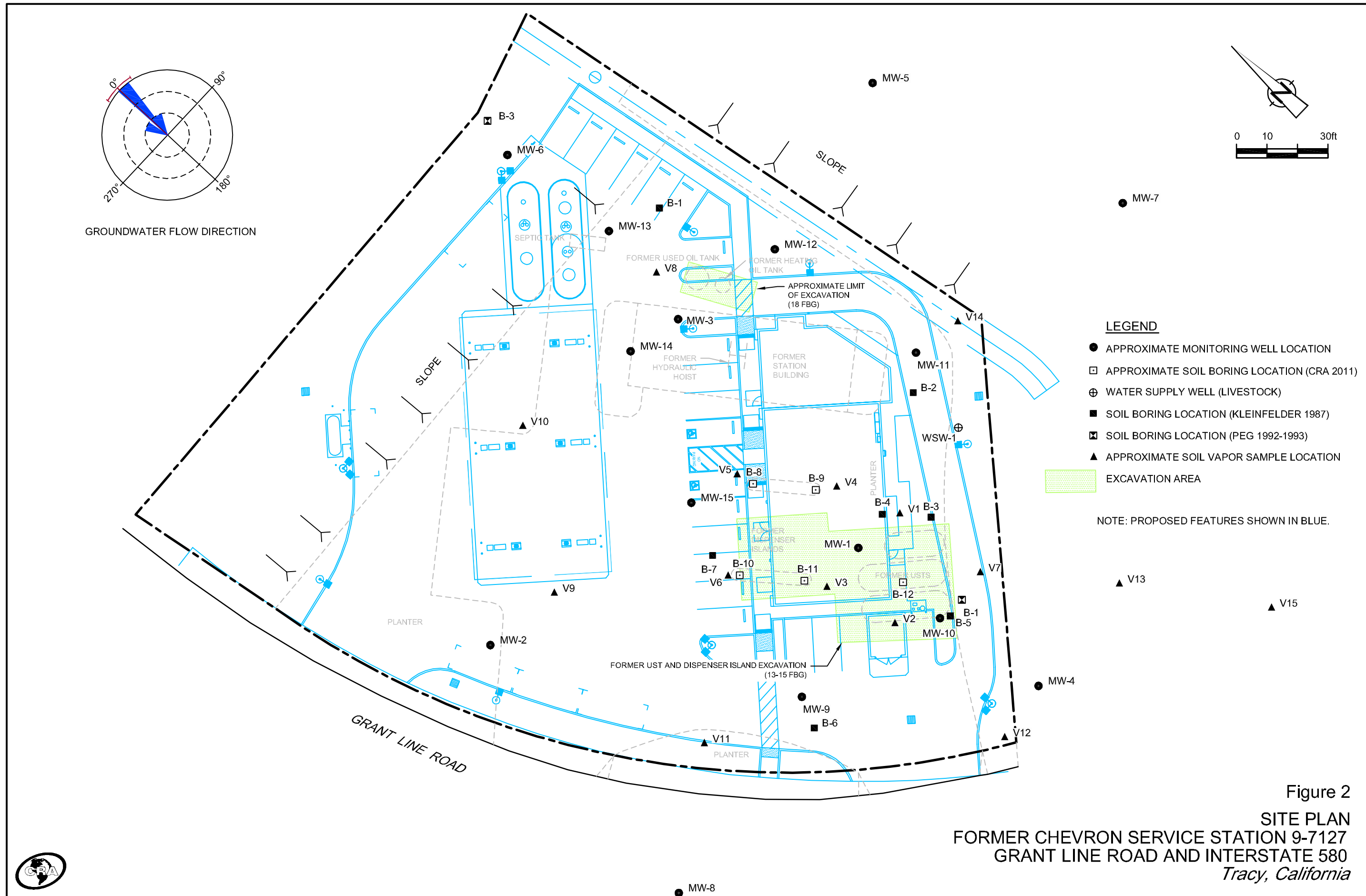
FIGURES

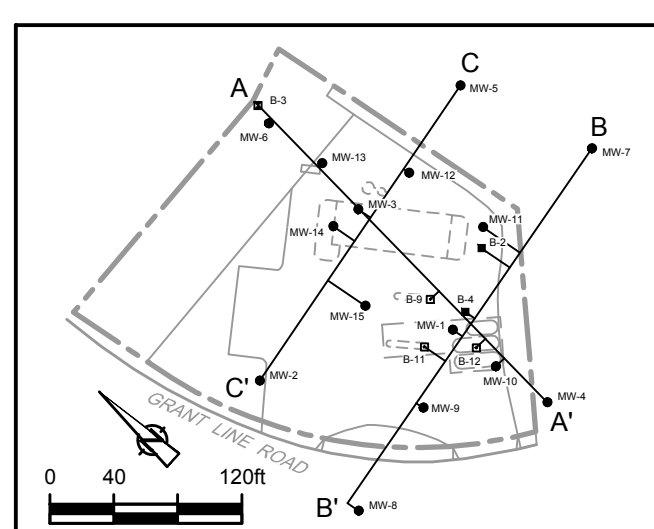
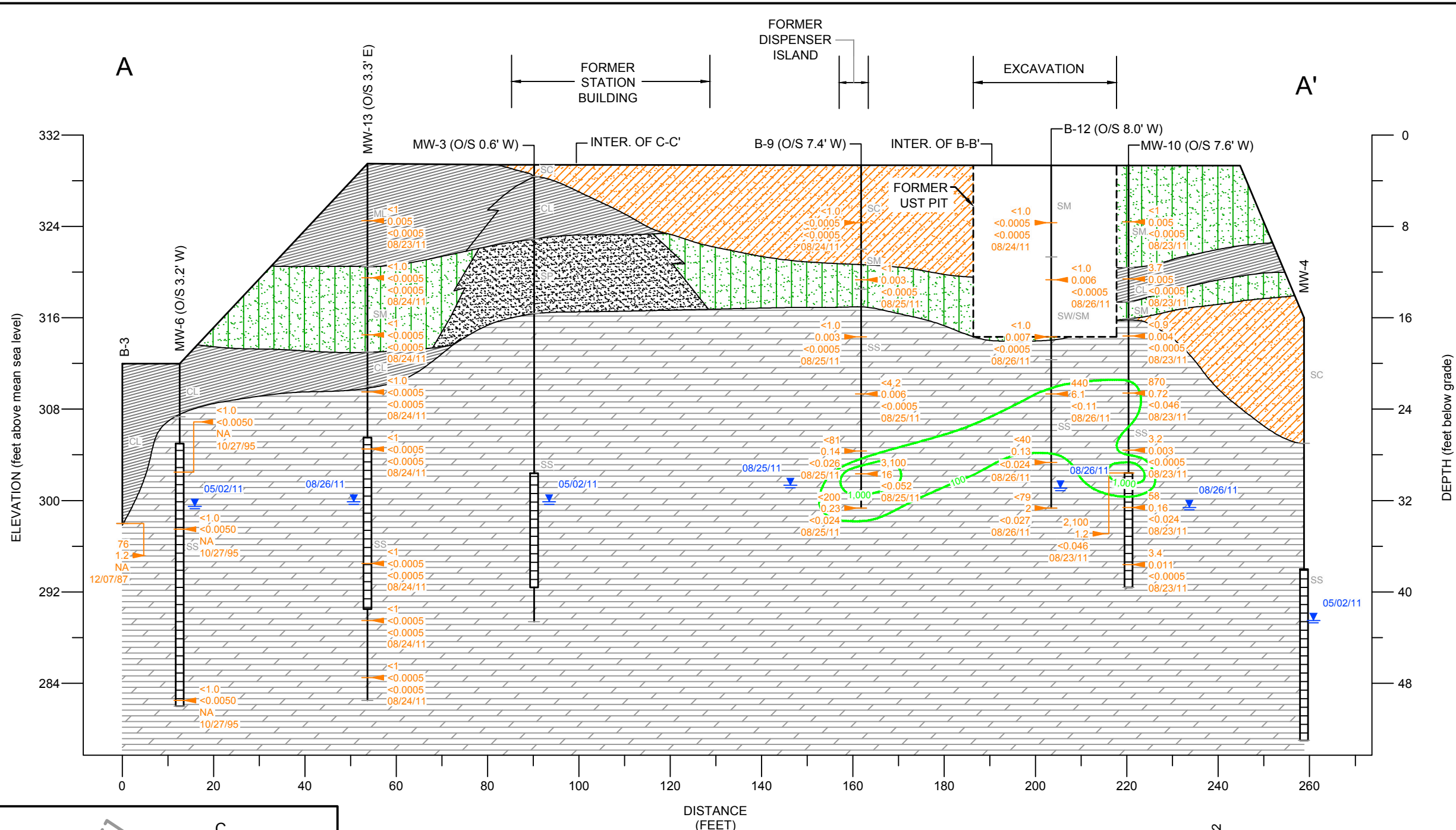


SOURCE: TOPO! MAPS.

Figure 1
 VICINITY MAP
 FORMER CHEVRON SERVICE STATION 9-7127
 GRANT LINE ROAD AND INTERSTATE 580
 Tracy, California







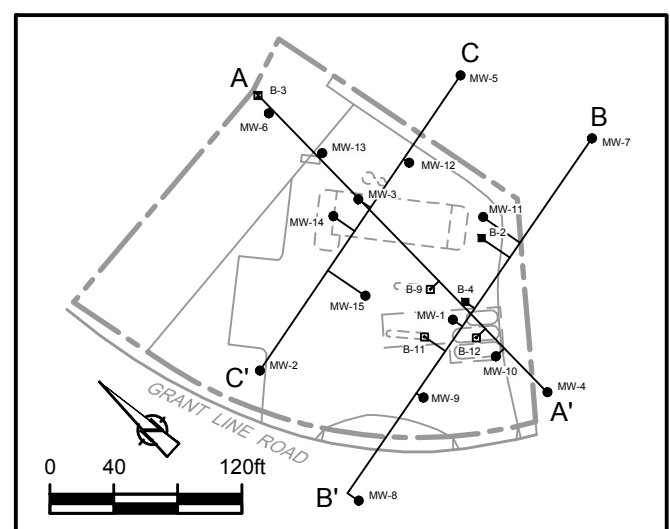
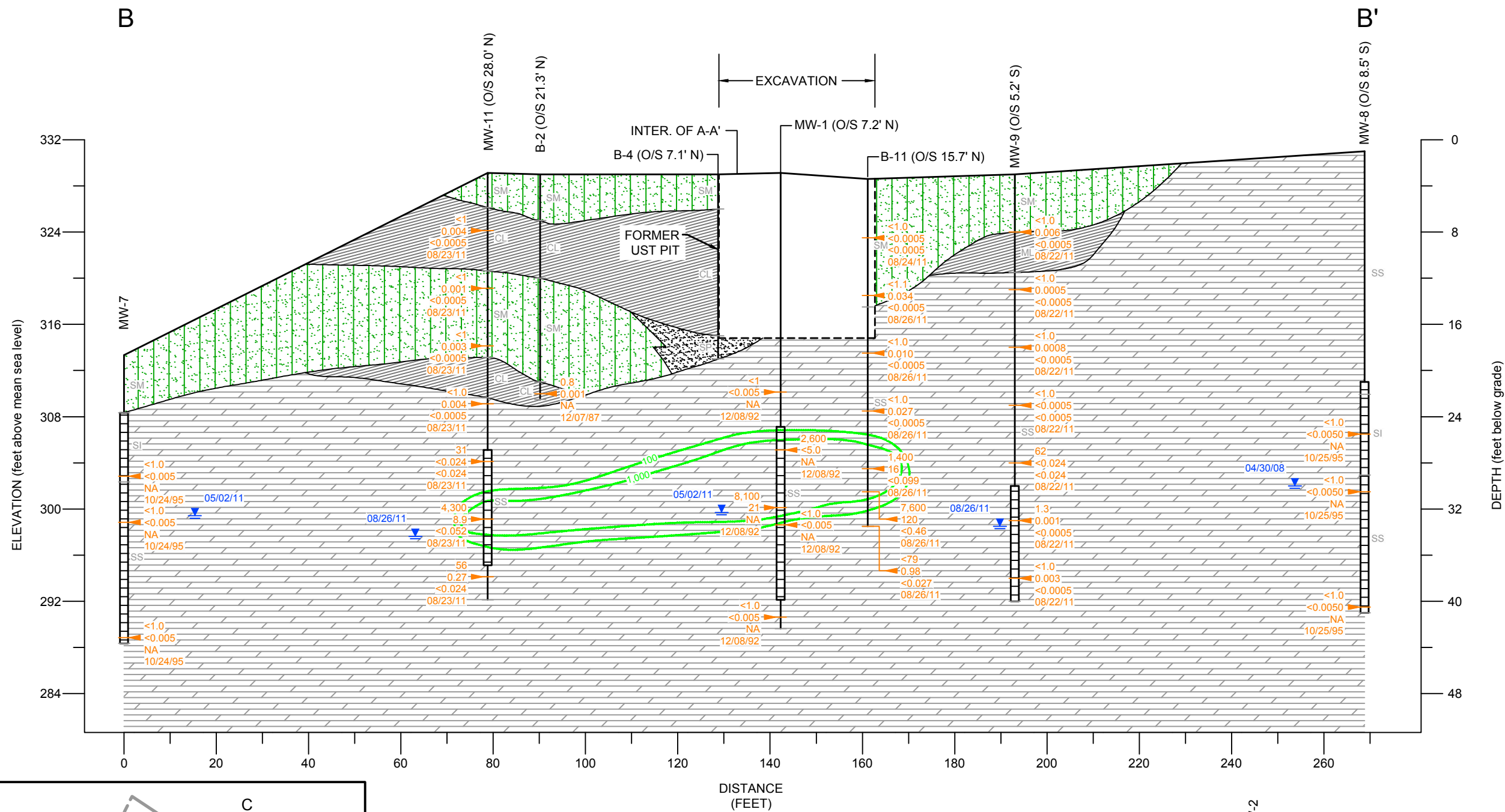
- LEGEND**
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
 - CL/ML - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
 - SI/SS - SILTSTONE/SANDSTONE

SCALES: HOR. 1"= 25'
VERT. 1"= 10'

- TPHg APPROXIMATE SOIL SAMPLE LOCATION
- BENZENE HYDROCARBON CONCENTRATIONS
- MTBE IN SOIL, IN MILLIGRAMS PER KILOGRAM (mg/Kg)
- DATE
- NA NOT ANALYZED
- 100 TPHg ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED) (mg/Kg)
- (05/02/11) GROUNDWATER DEPTH (DATE)
- "<" NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMITS

- MW-2 WELL/BORING
- GROUND SURFACE
- STRATIGRAPHIC BOUNDARY
- CL TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING

Figure 3
GEOLOGIC CROSS-SECTION A - A'
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
Tracy, California



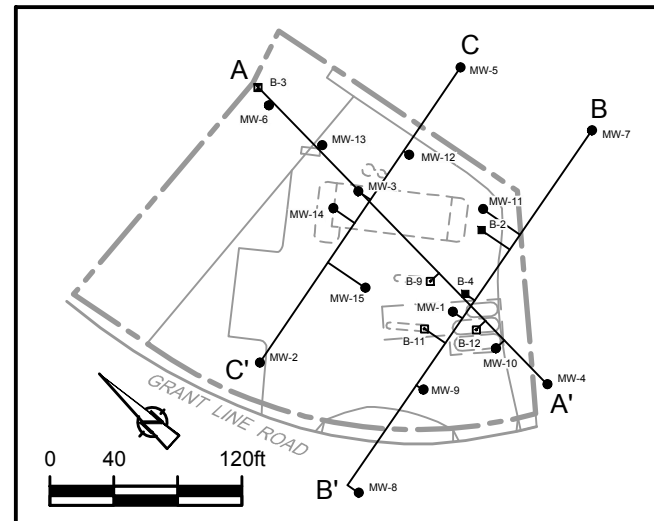
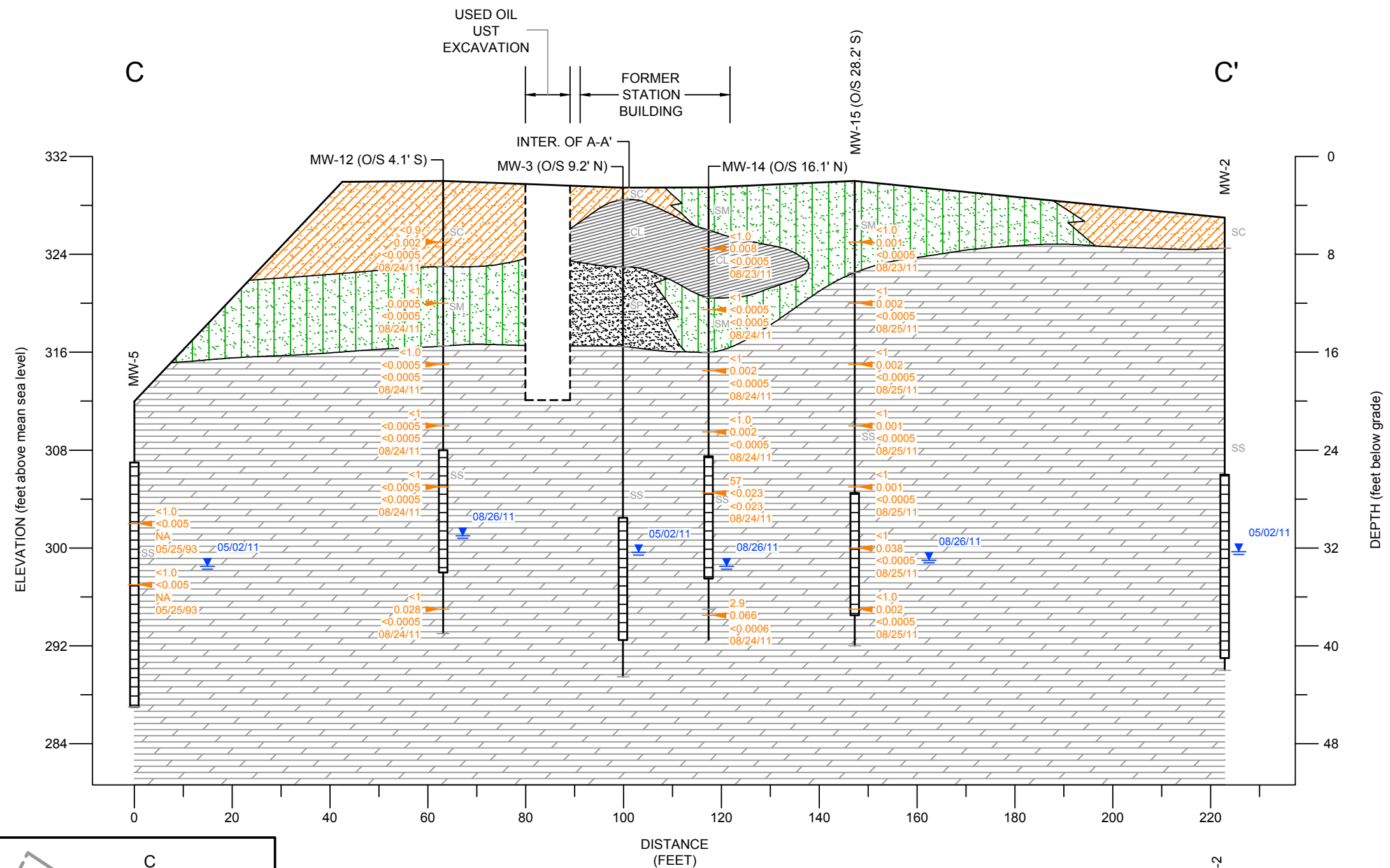
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 - CL/ML - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
 - SI/SS - SILTSTONE/SANDSTONE

SCALES: HOR. 1" = 25'
VERT. 1" = 10'

- APPROXIMATE SOIL SAMPLE LOCATION
- HYDROCARBON CONCENTRATIONS IN SOIL, IN MILLIGRAMS PER KILOGRAM (mg/Kg)
- NA NOT ANALYZED
- TPHg ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED) (mg/Kg)
- GROUNDWATER DEPTH (DATE)
- NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMITS

- WELL/BORING
- GROUND SURFACE
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING

Figure 4
GEOLOGIC CROSS-SECTION B - B'
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
Tracy, California



LEGEND

- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- SM - SILTY SANDS, SAND-SILT MIXTURES
- SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
- CL/ML - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- SI/SS - SILT/SANDSTONE

SCALES: HOR. 1"= 25'
VERT. 1"= 10'

- APPROXIMATE SOIL SAMPLE LOCATION
- HYDROCARBON CONCENTRATIONS IN SOIL, IN MILLIGRAMS PER KILOGRAM (mg/Kg)
- TPHg
- BENZENE
- MTBE
- DATE
- NA NOT ANALYZED
- TPHg ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED) (mg/Kg)
- GROUNDWATER DEPTH (DATE)
- "<" NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMITS

- WELL/BORING
- GROUND SURFACE
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING

Figure 5
GEOLOGIC CROSS-SECTION C - C'
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
Tracy, California

TABLES

**WELL CONSTRUCTION DETAILS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
TRACY, CALIFORNIA**

<i>Well ID</i>	<i>TOC Elevation</i>	<i>Total Well Depth</i>	<i>Top of Screen</i>	<i>Bottom of Screen</i>	<i>Top of Sand Pack</i>	<i>Top of Bentonite Seal</i>	<i>Well Diameter</i>	<i>Screen Size</i>
	<i>feet msl</i>							
MW-1	331.93	38	22	37	20	18	4	0.020
MW-2	329.98	37	21	36	19	17	2	0.020
MW-3	332.03	37.5	22.5	37.5	20.5	18.5	2	0.020
MW-4	320.22	37	22	37	20	18	2	0.020
MW-5	315.97	25	5	25	4	3	2	0.020
MW-6	314.91	30	7	30	6	5	2	0.020
MW-7	316.39	25	5	25	4	3	2	0.020
MW-8	331.33	40	20	40	18	17	2	0.020
MW-9	332.56	37	27	37	25	23	2	0.010
MW-10	331.77	37	27	37	25	23	2	0.010
MW-11	331.98	37	24	34	22	20	2	0.010
MW-12	332.53	37	22	32	20	18	2	0.010
MW-13	331.60	47	24	39	22	20	2	0.010
MW-14	332.24	37	22	32	20	18	2	0.010
MW-15	332.88	38	25.5	35.5	23	21	2	0.010

Notes:

TOC = top of casing

msl = mean sea level

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
TRACY, CALIFORNIA**

Well/Boring ID	Sample Date	Sample Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
			← reported in milligrams per kilogram (mg/kg) →					
Exploratory Borings								
B-8	8/24/11	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-8	8/25/11	10	<10	0.001	<0.001	0.001	<0.001	<0.0005
B-8	8/25/11	15	<1.0	0.0006	<0.001	<0.001	<0.001	<0.0005
B-8	8/25/11	20	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-8	8/25/11	25	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-8	8/25/11	30	3.7	0.10	0.046	0.066	0.26	<0.0005
B-9	8/24/11	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-9	8/25/11	10	<1	0.003	0.005	<0.001	<0.001	<0.0005
B-9	8/25/11	15	<1.0	0.003	0.003	<0.001	<0.001	<0.0005
B-9	8/25/11	20	<4.2	0.006	0.007	0.016	0.044	<0.0005
B-9	8/25/11	25	<81	0.14	1.1	0.48	2.3	<0.026
B-9	8/25/11	27	3,100	16	220	57	290	<0.052
B-9	8/25/11	30	<200	0.23	4.9	2.0	11	<0.024
B-10	8/24/11	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-10	8/25/11	10	<0.9	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-10	8/25/11	15	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-10	8/25/11	20	<1.0	0.008	0.012	0.002	0.012	<0.0005
B-10	8/25/11	25	<1.0	0.002	0.002	<0.001	<0.001	<0.0005
B-10	8/25/11	30	<1.0	0.010	0.006	<0.001	0.003	<0.0005
B-11	8/24/11	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-11	8/26/11	10	<1.1	0.034	0.045	0.003	0.012	<0.0005
B-11	8/26/11	15	<1.0	0.010	0.011	<0.001	0.001	<0.0005
B-11	8/26/11	20	<1	0.027	0.042	0.003	0.016	<0.0005
B-11	8/26/11	25	1,400	16	120	22	110	<0.099
B-11	8/26/11	27	7,600	120	880	140	680	<0.46
B-11	8/26/11	30	<79	0.98	9.4	2.0	10	<0.027
B-12	8/24/11	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
B-12	8/26/11	10	<1	0.006	0.010	0.002	0.01	<0.0005
B-12	8/26/11	15	<1.0	0.007	0.005	0.002	0.002	<0.0005
B-12	8/26/11	20	440	6.1	5.5	31	100	<0.11
B-12	8/26/11	26	<40	0.13	0.61	0.11	0.53	<0.024

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
TRACY, CALIFORNIA**

<i>Well/Boring ID</i>	<i>Sample Date</i>	<i>Sample Depth (fbg)</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>	
			← <i>reported in milligrams per kilogram (mg/kg)</i> →						
B-12	8/26/11	30	<79	2.0	7.1	0.93	4.7	<0.027	
Monitoring Well Borings									
MW-9	8/22/11	5	<1	0.006	0.012	<0.0009	0.002	<0.0005	
MW-9	8/22/11	10	<1	0.0005	<0.001	<0.001	<0.001	<0.0005	
MW-9	8/22/11	15	<1	0.0008	0.001	<0.001	<0.001	<0.0005	
MW-9	8/22/11	20	<1	<0.0005	0.001	<0.0009	<0.0009	<0.0005	
MW-9	8/22/11	25	62	<0.024	0.064	0.089	0.64	<0.024	
MW-9	8/22/11	30	1.3	0.001	0.003	<0.001	0.002	<0.0005	
MW-9	8/22/11	35	<1	0.003	0.008	<0.001	0.003	<0.0005	
MW-10	8/23/11	5	<1	0.005	0.008	<0.001	<0.001	<0.0005	
MW-10	8/23/11	10	3.7	0.005	0.013	0.001	0.005	<0.0005	
MW-10	8/23/11	15	<0.9	0.004	0.007	<0.0009	0.001	<0.0005	
MW-10	8/23/11	20	870	0.72	12	8.1	39	<0.046	
MW-10	8/23/11	25	3.2	0.003	0.016	0.009	0.064	<0.0005	
MW-10	8/23/11	27	2,100	1.2	34	17	88	<0.046	
MW-10	8/23/11	30	58	0.16	1.2	0.44	2.3	<0.024	
MW-10	8/23/11	35	3.4	0.011	0.034	0.015	0.028	<0.0005	
MW-11	8/23/11	5	<1	0.004	0.007	<0.001	0.001	<0.0005	
MW-11	8/23/11	10	<1	0.001	0.001	<0.001	<0.001	<0.0005	
MW-11	8/23/11	15	<1	0.003	0.004	<0.0009	<0.0009	<0.0005	
MW-11	8/23/11	20	<1.0	0.004	0.003	<0.001	<0.001	<0.0005	
MW-11	8/23/11	25	31	<0.024	0.057	0.056	0.34	<0.024	
MW-11	8/23/11	30	4,300	8.9	42	10	49	<0.052	
MW-11	8/23/11	35	56	0.27	1.3	0.29	1.5	<0.024	
MW-12	8/23/11	5	<0.9	0.002	0.006	<0.001	0.001	<0.0005	
MW-12	8/24/11	10	<1	0.0005	0.002	<0.001	<0.001	<0.0005	
MW-12	8/24/11	15	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	
MW-12	8/24/11	20	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	
MW-12	8/24/11	25	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	
MW-12	8/24/11	35	<1	0.028	<0.001	0.006	<0.001	<0.0005	
MW-13	8/23/11	5	<1	0.005	0.009	<0.001	0.001	<0.0005	

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
TRACY, CALIFORNIA**

<i>Well/Boring ID</i>	<i>Sample Date</i>	<i>Sample Depth (fbg)</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>
<i>← reported in milligrams per kilogram (mg/kg) →</i>								
MW-13	8/24/11	10	<1.0	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005
MW-13	8/24/11	15	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-13	8/24/11	20	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-13	8/24/11	25	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-13	8/24/11	35	<1	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005
MW-13	8/24/11	40	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-13	8/24/11	45	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-14	8/23/11	5	<1.0	0.008	0.012	<0.001	0.003	<0.0005
MW-14	8/24/11	10	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005
MW-14	8/24/11	15	<1	0.002	<0.001	<0.001	<0.001	<0.0005
MW-14	8/24/11	20	<1.0	0.002	0.002	<0.001	<0.001	<0.0005
MW-14	8/24/11	25	57	<0.023	0.23	0.22	1.5	<0.023
MW-14	8/24/11	35	2.9	0.066	0.068	0.019	0.086	<0.0006
MW-15	8/23/11	5	<1.0	0.001	0.002	<0.001	<0.001	<0.0005
MW-15	8/25/11	10	<1	0.002	0.001	<0.001	<0.001	<0.0005
MW-15	8/25/11	15	<1	0.002	0.001	<0.001	<0.001	<0.0005
MW-15	8/25/11	20	<1	0.001	<0.001	<0.001	<0.001	<0.0005
MW-15	8/25/11	25	<1	0.001	<0.001	<0.001	<0.001	<0.0005
MW-15	8/25/11	30	<1	0.038	0.005	0.002	0.006	<0.0005
MW-15	8/25/11	35	<1.0	0.002	0.002	<0.001	<0.001	<0.0005

Notes:

fbg = feet below grade

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

< = Not detected at or above stated laboratory reporting limit

**GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580
TRACY, CALIFORNIA**

<i>Boring ID</i>	<i>Sample Date</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>
		←————— <i>reported in micrograms per liter (μg/L)</i> —————→					
B-8	8/25/2011	64,000	24,000	1,500	1,300	2,500	<25

Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

< = Not detected at or above stated laboratory reporting limit

ATTACHMENT A

ACEH CORRESPONDENCE



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 16, 2010

Ms. Stacie H. Frerichs
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(sent via electronic mail to:
staciehf@chevron.com)

Mr. Onsoni Ardavan
37 Victoria Drive
Atherton, CA 94027-4122

Frances & Louis Carnazzo
Carnozzo Land Co, Inc, et al
P.O. Box 6031
Atascadero, CA 93423-6031

Ahmad & Shahla Mostofi
37 Victoria Drive
Atherton, CA 94027-4122

Subject: Request for Alternative Work Plan; Fuel Leak Case No. RO0000185 (Global ID #T0600102298), Chevron #9-7127, I 580 and Grant Line Road, Tracy, CA

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Corrective Action Plan Addendum and Proposed Feasibility Study*, dated December 31, 2008, the *Work Plan for Groundwater Pumping Test*, dated August 6, 2009, the *Vacuum Extraction Event Report and Work Plan for Surfactant-Enhanced Recovery*, dated October 4, 2010, and the *First Semi-Annual 2010 Groundwater Monitoring Report*, dated July 28, 2010, each prepared on your behalf by Conestoga-Rovers & Associates (CRA). The CAP Addendum recommended a groundwater pumping test to determine if groundwater flow is primarily fracture flow within the bedrock sandstone beneath the site, and the groundwater pumping test work plan detailed work methodologies. Because the site is now slated for redevelopment as a service station and remediation needs to be expedited, the groundwater pumping test was abandoned and a groundwater vacuum extraction event was conducted and reported on in the soil and groundwater investigation report referenced. The report provided rough radius-of-influence data for groundwater vacuum extraction, as well as a work plan for the injection of a surfactant into two wells with free phase (FP) in an attempt to decrease the surface tension between the FP and water and allow desorption of residual FP from saturated soil.

The proposed injection of surfactant at the site is at least the second proposal for surfactant injection at the site. Two previous ACEH letters have requested additional site characterization in part to address potential implementation of these proposals, and also requested further site specific studies relative to the technique, and set submittal timelines for related deliverables; these remain outstanding. At this time the use of surfactant is not approved until outstanding deliverables, inclusive of related deliverables identified in this letter, are submitted.

Based on ACEH staff review of these documents and the work plan we request additional information prior approval of the scope of work. We request that you address the following technical comments regarding the site, and send us the technical documents requested below.

TECHNICAL COMMENTS

1. **Surfactant Injection and Extraction** - The work plan proposes to conduct surfactant-enhanced recovery (SER) of FP from wells MW-1 and MW-3 using the surfactant Ivey-Sol[®]. The surfactant is reported to be biodegradable, achieving 90% degradation within 28 days in the laboratory. In addition to the outstanding deliverables noted above, ACEH has a number of concerns with this specific

proposal that require a better understanding prior to ACEH consideration of the work. Please address the following comments and submit the requested items:

- a. **Site Characterization / Lateral Extent of Free Phase Product** – ACEH is in general agreement that bedrock fractures may create a preferential pathway based on the current linear distribution of FP at the site; however, this distribution assumption (or hypothesis) has not been tested through the installation of additional soil bores or wells that would additionally provide a better estimation of the lateral extent of surfactant flow, the effectiveness of surfactant recovery after injection, or the effectiveness of other potential remedial options. Similarly the extent of FP (including downgradient extent) in the vicinity of well MW-3 has not been defined. The existing well network is a minimum of 75 feet from either of the proposed injection wells, and ranges up to 125 feet in distance. Contaminant delineation is an outstanding ACEH request.

An analysis of distribution of hydrocarbons in soil contained in the December 31, 2008 *Corrective Action Plan Addendum and Proposed Feasibility Study*, suggests that the limited shallow soil contamination in well MW-1 and the elevated concentrations detected at depth in soil are likely related to groundwater. This also suggests that the location of the residual soil source and FP is not known. This analysis is substantiated by the May 15, 2007 *Corrective Action Plan* where the source was presumed to be within the vadose zone, but is not otherwise known. The apparent poor location control of UST removal confirmation soil samples again affirms this situation. This would limit any ability to target the residual soil source with a remedial technology, including the proposed method.

As currently proposed the work appears to target FP in two wells and does not seek to target residual soil sources, or to determine the lateral or downgradient extent of FP, or to determine the effectiveness of FP removal, except at the injection wells where the removal rate is likely to be higher. ACEH is not convinced that the proposed work could not be described as a spot treatment of two wells, and not of the site. Moreover, unintended flow of liberated product can occur prior to recognition or could be missed completely with the existing well network. As a consequence, a denser monitoring well network will be required prior to implementation of this or any remedial effort.

A site assessment was requested in an August 22, 2007 directive letter and remains a valid concern. As documented in the CV RWQCB letter appended to that letter are statements by Ivey International that also indicate that complete site characterization is essential to proper use of surfactant as a remedial tool. ACEH notes that site characterization is not antithetical to careful site development.

As a consequence of these identified data gaps, inclusive of outstanding deliverables previously noted, the submitted work plan is not approved; rather by the date identified below, please submit an alternative work plan to fill these site characterization data gaps (and potentially others that may be identified in your reviews). A capture zone analysis, as requested in the August 22, 2007 letter, and as proposed in the August 6, 2009 *Work Plan for Groundwater Pumping Test*, would be appropriate using a more closely spaced well network. This network would also help verify the lateral extent of FP or dissolved groundwater concentrations.

- b. **Interim Use of Skimmers** - Please evaluate the interim use of skimmers or other appropriate technology, in wells MW-1 and MW-3 as temporary measures to increase the capture of free product at the site between site visits; this FP recovery method has ceased being used at the site.
- c. **Justification of Pilot Test Appropriateness** – As stated in both the August 22, 2007 and the August 20, 2008 directive letters, interim remediation must be completed within the corrective action process. As a consequence please justify the choice of the interim remedial alternative in a Feasibility Study / Corrective Action Plan (FS/CAP) which targets all impacted

media at the site by the date identified below. The FS/CAP should utilize data to be generated as a part of the requested alternative work plan.

As required in the August 2008 letter, the FS/CAP should include contamination cleanup levels and cleanup goals, in accordance with the Central Valley Regional Water Quality Control Board (CV RWQCB) Basin Plan for all COCs and for the appropriate groundwater designation. Soil cleanup levels should ultimately (within a reasonable timeframe) achieve water quality control objectives (cleanup goals) for groundwater in accordance with the CV RWQCB Basin Plan. Please propose appropriate cleanup levels and cleanup goals and the timeframe to reach these levels and goals in accordance with 23 CCF Section 2725, 2726, and 2727 in the FS/CAP for active remediation and final cleanup goals. These can be calculated site-specific risk-based cleanup goals and water quality objectives.

The FS/CAP must evaluate at least three viable alternatives for remedying or mitigating the actual or potential adverse affects of the unauthorized release(s) besides the 'no action' and 'monitored natural attenuation' remedial alternatives. Each alternative shall be evaluated by the Responsible Party for remedial effectiveness, cost-effectiveness, and timeframe to reach water quality objectives (cleanup goals), and thereafter propose an appropriate cleanup technology.

2. **Geotracker Well Survey** – Site wells have not been surveyed to Geotracker well survey standards at this site. Please incorporate this work in the requested work plan identified below.

TECHNICAL REPORT REQUEST

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **February 14, 2011** – Work Plan
- **60 Days After Work Plan Approval** – Soil and Groundwater Investigation Report
- **60 Days After Soil & Groundwater Investigation Response Letter** – FS/CAP or additional appropriate work plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E.
Detterman
DN: cn=Mark E. Detterman, c=US
Date: 2010.12.16 14:33:43 -08'00'

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: James Kiernan, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to jkiernan@croworld.com)
Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, e-File

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Attachment 1

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org
 - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 27, 2011

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(sent via electronic mail to:
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Mr. Onori Ardavan
37 Victoria Drive
Atherton, CA 94027-4122

Frances & Louis Carnazzo
Carnozzo Land Co, Inc, et al
P.O. Box 6031
Atascadero, CA 93423-6031

Ahmad & Shahla Mostofi
37 Victoria Drive
Atherton, CA 94027-4122

Subject: Approval With Modifications to Work Plan; Fuel Leak Case No. RO0000185 (Global ID #T0600102298), Chevron #9-7127, I 580 and Grant Line Road, Tracy, CA

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Work Plan for Additional Investigation*, dated March 14, 2011 and the *Second Semi-Annual 2010 Groundwater Monitoring Report*, dated January 17, 2011, each was prepared on your behalf by Conestoga-Rovers & Associates (CRA). The work plan proposed the installation of seven groundwater monitoring wells and five soil bores, and includes the collection of grab groundwater from the five soil bores.

Based on ACEH staff review of the work plan, the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed field investigation. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Well and Bore Placement Clarification** – The Work Plan states that the proposed wells and soil bores have been placed to accommodate the planned redevelopment configuration; however, that configuration is not included in Work Plan figures which would allow an understanding of the locations. ACEH requests submittal of a revised bore placement figure with those details prior to work initiation, with the potential to adjust or modify bore locations. Please submit the revised figure by the date identified below.
2. **Well Survey** - The work plan proposes to survey wells to GeoTracker standards for upload to the state database. Principally as a clarification, please include existing wells into the survey as these wells have not previously been surveyed to these standards. This should include a repaired well MW-8 (see next comment).

3. **Well MW-8 Repair** – Please include the repair of this well in the next site investigation mobilization to the site to ensure it is included in the aforementioned well survey. Because the well has not been sampled since April 2008, ACEH also requests that the well be redeveloped in the next scheduled well development mobilization to the site, in order for it to be included in the next scheduled groundwater monitoring event. Based on a history of non-detectable analytical results it is likely well sampling will resume an annual or less frequent sampling interval; however, this determination will depend on the results of the first resampling event.
4. **Groundwater Supply Well Sampling** – Review of the referenced groundwater monitoring report does not include the sampling location or methodology used to collect the sample. It is not clear if the sampling point is located after the carbon treatment system that is reported to have been installed on the well. ACEH requests clarification of both the sampling methodology and location as these details do not appear to have been reported for a significant period of time. If this is incorrect, please refer ACEH to the reporting document(s).

TECHNICAL REPORT REQUEST

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **May 20, 2011** – Work Plan Addendum (Revised Site Plan)
- **July 15, 2011** – Soil and Groundwater Investigation Report
- **60 Days After Soil & Groundwater Investigation Response Letter** – FS/CAP or additional appropriate work plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou,
email, c=US
Date: 2011.04.27 11:48:57 -07'00'

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: James Kiernan, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to jkiernan@croworld.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Electronic File

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B

SUMMARY OF ENVIRONMENTAL INVESTIGATION,
REMEDICATION AND HISTORICAL DATA

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION
FORMER CHEVRON SERVICE STATION 9-7127
I-580 AND GRANT LINE ROAD, TRACY, CA

October 1987 Soil Vapor Investigation

EA Engineering, Science, and Technology, Inc. (EA) collected soil vapor samples from temporary vapor points V1 through V15 (both onsite and offsite) at depths ranging from 3 to 12 feet below grade (fbg). Based on the results, EA concluded that light non-aqueous phase liquid (LNAPL) may be present in the area of the tanks and pump island. Details of this investigation were presented in EA's November 13, 1987 *Report of Investigation*.

1987-1988 Subsurface Investigation and Well Sampling

In December 1987, Kleinfelder, Inc. advanced onsite exploratory borings B-1 through B-7. Soil samples collected from the borings at depths ranging from 5 to 20 fbg contained up to 2,300 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 19 mg/kg benzene. Water samples collected from taps supplied by the onsite water well in December 1987 and January 1988 contained benzene at 2 micrograms per liter ($\mu\text{g/L}$) and 4 $\mu\text{g/L}$. Details of this investigation were presented in Kleinfelder's January 6, 1988 *Final Report: Subsurface Environmental Investigation at Chevron Service Station #7127*.

1988 through 1991 Domestic Well Monitoring

In January 1988, groundwater samples were collected from a tap and the onsite water supply well; benzene was detected in the tap samples at 1 $\mu\text{g/L}$ and 1.1 $\mu\text{g/L}$, but was not detected in the well sample. In February 1989, no TPH or benzene were detected in samples collected from a tap and the well. Benzene concentrations detected in tap and well samples collected in March and April 1989 ranged from 1.4 to 7 $\mu\text{g/L}$. In May 1989, Gettler-Ryan Inc. (G-R) installed a carbon adsorption treatment system on the wellhead and began weekly sampling. No TPH or BTEX were detected in samples collected from the well and treatment system influent, mid, and effluent samples in August 1989. From August 1989 to March 1991, 26 samples were collected from the well; TPHg and benzene generally were not detected with the exception of TPHg in one sample (320 $\mu\text{g/L}$) and benzene in one sample (0.07 $\mu\text{g/L}$). Details of this work were presented in Kleinfelder's March 8, 1988 *Summary of Domestic Water Sampling Activities and Analytical Results* and August 2, 1989 *Domestic Water Contaminant Source Evaluation*, and Pacific Environmental Group's (PEG's) March 22, 1993 untitled report.

April 1991 Tank, Product Piping, and Dispenser Island Removal

As part of station demolition, Blaine Tech Services, Inc. (Blaine Tech) observed the removal of two 10,000-gallon and one 6,000-gallon gasoline underground storage tanks (USTs), a 1,000-gallon used-oil UST, a 750-gallon heating oil UST, two dispenser islands, and associated product piping. No holes were observed in the fiberglass tanks. Based on the initial confirmation sampling results, over-excavation of the gasoline UST pit and the product line trenches was conducted. The final confirmation soil samples contained up to 710 mg/kg TPHg and 0.085 mg/kg benzene. The excavated soil was aerated onsite until TPHg concentrations were below 10 mg/kg, and then used to backfill the excavations. Details of this investigation were presented in Blaine Tech's June 24, 1991 *Multiple Event Sampling Report*.

December 1992 Monitoring Well Installation and 1993 Water-Supply Well Sampling

PEG advanced exploratory boring B-1 and installed monitoring wells MW-1 through MW-3. Soil samples collected at various depths from borings B-1 and MW-1 contained up to 8,100 mg/kg TPHg and 21 mg/kg benzene (one sample). LNAPL was observed in MW-1. PEG performed weekly sampling of the water-supply well from January through March 1993. Details of this work were presented in PEG's March 22, 1993 untitled report.

1993 LNAPL Removal

PEG began weekly bailing of LNAPL from MW-1; a passive skimmer was also installed in the well. As of March 1993, approximately 2 gallons of product had been removed. The bailing frequency was then reduced to monthly.

May 1993 Monitoring Well Installation

PEG advanced exploratory boring B-3 and installed wells MW-4 and MW-5. Soil samples collected at 10 and 15 fbg from boring MW-5 contained no TPHg or benzene. A grab-groundwater sample collected from boring B-3 contained 96 µg/L TPHg and 1 µg/L benzene. Details of this investigation were presented in PEG's December 3, 1993 untitled report.

October 1994 Comprehensive Site Evaluation

Weiss Associates (WA) performed a comprehensive site evaluation. Based on the historical data, WA concluded that the hydrocarbon source areas had been removed and that the plume was primarily contained onsite. However, to determine the full extent of the plume, WA recommended the installation of an additional offsite monitoring well north of the site. Further details were presented in WA's October 13, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

October 1995 Monitoring Well Installation

PEG installed monitoring wells MW-6 through MW-8. Soil samples collected at various depths from the well borings contained no TPHg or benzene. Details of this investigation were presented in PEG's January 25, 1996 *Groundwater Investigation Report*.

June 1997 Risk-Based Assessment

A Tier 2 Risk-Based Corrective Action (RBCA) assessment was completed. The results indicated that groundwater ingestion could pose a risk to human health due to the TPHg and benzene concentrations in wells MW-1, MW-3, and MW-4. The assessment also indicated that the onsite water supply well was a potential receptor for residual concentrations of petroleum hydrocarbons in the subsurface. Further details were presented in PEG's June 27, 1997 *Risk-Based Corrective Action-Tier 2* report.

1998-2001 Bioremediation

In August 1998, Oxygen Release Compound® (ORC) socks were installed in MW-1, MW-2 and MW-4 to reduce hydrocarbon concentrations via enhanced biodegradation. In July 2001, the sock in MW-1 was removed so a passive skimmer could be installed. No information is available as to when the socks in the remaining two wells were removed.

December 1999 Hydrogen Peroxide Injection

Cambria Environmental Technology, Inc. (Cambria [now CRA]) injected hydrogen peroxide at various concentrations into MW-1 and MW-3 in a further attempt to mitigate LNAPL and reduce hydrocarbon concentrations in groundwater. Details of the work were documented in Cambria's March 30, 2000 *Hydrogen Peroxide Injection* report.

May 2001 Corrective Action Plan (CAP)

Delta Environmental Consultants, Inc. (Delta) prepared an interim CAP in which the destruction of the onsite water supply well was recommended as well as monthly hand-bailing of LNAPL from MW-1 for two quarters, after which the LNAPL thickness would be re-evaluated. Further details were presented in Delta's May 7, 2001 *Interim Corrective Action Plan*.

2001-2002 Remedial Activities

In July 2001, a passive skimmer was installed in MW-1 and seven groundwater vacuum extraction events were conducted through April 2002. Approximately 8,300 gallons of groundwater and 2.19 gallons of LNAPL were extracted from MW-1 during this time. In July 2002, vacuum extraction of groundwater from MW-3 was initiated. However, due to an increase in LNAPL thickness in MW-1, extraction from MW-1 and MW-3 was terminated in October 2002.

April 2003 Remedial Action Plan (RAP) and Feasibility Study

Delta submitted a RAP and feasibility study for the site. Data from the study indicated that groundwater was in a perched zone at approximately 10 to 40 fbg, with underlying confining bedrock. The impacted soil appeared to be limited to the capillary fringe at approximately 25 to 30 fbg, in the vicinity of the former USTs. The recommended remedial alternative was removal of LNAPL from MW-1 using an active mechanical skimmer in conjunction with natural attenuation. Further details were presented in Delta's April 30, 2003 *Remedial Action Plan and Feasibility Study*.

March and April 2007 Groundwater Extraction

CRA conducted three additional batch groundwater extraction events from MW-1; removing approximately 5,100 gallons of groundwater. The measured LNAPL thicknesses in MW-1 prior to each event were 0.5 feet, 0.36 feet and 0.39 feet.

May 2007 CAP

CRA submitted a CAP that evaluated three remedial alternatives: oxygen injection, batch groundwater extraction, and surfactant-enhanced recovery (SER). The recommended alternative was SER/groundwater extraction. Details were presented in CRA's May 15, 2007 *Corrective Action Plan*.

October 2007 Interim Remedial Action Plan (IRAP)

CRA submitted a revised IRAP that proposed the installation of three additional monitoring wells around MW-1 to better evaluate hydrocarbon distribution, hydrogeologic characteristics, and potentially facilitate the remediation of groundwater and vapors from fractures in the bedrock. In addition, SER was proposed to remove LNAPL found in formation pore spaces.

Details were presented in CRA's October 19, 2007 *Additional Assessment and Revised Interim Remedial Action Plan*.

December 2008 CAP Addendum and Proposed Feasibility Study

CRA submitted a CAP addendum and proposed feasibility study in which a groundwater pumping test was recommended to further evaluate the hydrogeologic conditions and behavior of groundwater. The information obtained from the pumping test would then be used to further define the necessary scope of remediation, and to further evaluate available remedial options to address LNAPL. Further details were presented in CRA's December 2008 *Corrective Action Plan Addendum and Proposed Feasibility Study*.

May 2010 Vacuum Extraction Event/Pilot Test

CRA performed a vacuum extraction event/pilot test to remove LNAPL and to further evaluate hydrogeologic conditions for the potential use of SER as the remedial alternative for further LNAPL removal. Based on the test results, it appeared that MW-1 was in good hydrogeologic communication with MW-3 (drawdown and a reduction in LNAPL observed), which in turn was in good communication with MW-5, MW-6, and MW-7. Sufficient volumes of water and/or LNAPL were also able to be extracted from MW-1 and MW-3. It appeared that any surfactant placed in MW-1 and MW-3 could be adequately recovered and the surrounding wells would provide good monitoring points. Therefore, SER appeared feasible and a work plan was presented to implement it. Further details were presented in CRA's October 4, 2010 *Vacuum Extraction Event Report and Work Plan for Surfactant-Enhanced Recovery*.

TABLE B-1

**HISTORICAL SOIL VAPOR SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580, TRACY, CALIFORNIA**

<i>Sample ID</i>	<i>Sample Date</i>	<i>Depth (fbg)</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Total Hydrocarbons</i>
← reported in parts per million by volume (ppmv) →					
V1	10/27/87	3	<1	<1	<5
V1/B	10/27/87	5	650	3,200	7,500
V1/C	10/27/87	8	600	2,800	20,000
V2	10/27/87	5	<5	30	160
V3	10/27/87	3	5	10	30
V3/B	10/27/87	5	1	10	15
V4	10/27/87	3	3,200	5,200	28,500
V4/B	10/27/87	5	130	1,900	2,000
V5	10/27/87	5	<1	<5	<5
V5/B	10/27/87	7	40	<1	750
V6	10/27/87	5	540	160	7,300
V7	10/27/87	5	<5	<5	1,400
V8	10/27/87	3	<1	<1	<1
V8/B	10/27/87	8	<1	<1	<1
V9	10/27/87	8	<1	<10	10
V10	10/27/87	8	<1	<1	<1
V11	10/27/87	5	<1	<1	<1
V12	10/27/87	8	<1	<1	<1
V13	10/27/87	12	<1	<1	25
V14	10/27/87	8	<1	<1	<1
V15	10/27/87	12	<1	<1	<1

Notes:

fbg feet below grade

<x not detected at or above reporting limit x

TABLE B-2

**HISTORICAL SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580, TRACY, CALIFORNIA**

<i>Boring/ Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TOG</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>Lead</i>
← reported in milligrams per kilogram (mg/kg) →										
Exploratory Borings										
B-1	12/7/87	10	--	--	<0.1	<0.001	<0.001	<0.001	<0.003	--
B-2	12/7/87	20	--	--	0.8	0.001	<0.001	0.003	0.004	--
B-3	12/7/87	14	--	--	76	1.2	0.68	0.80	2.0	--
B-4	12/7/87	15	--	--	2,300	19	85	28	140	--
B-5	12/7/87	5	--	--	0.50	0.076	0.007	0.002	0.03	--
B-6	12/7/87	5	--	--	<0.1	<0.001	<0.001	<0.001	<0.003	--
B-7	12/7/87	5	--	--	0.70	0.022	0.003	0.024	0.046	--
B-1	12/9/92	7	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--
B-1	12/9/92	12.5	--	--	4	<0.005	<0.005	<0.005	0.015	--
B-1	12/9/92	17.5	--	--	<1.0	<0.005	0.014	<0.005	0.025	--
B-1	12/9/92	21.5	--	--	<1.0	<0.005	0.013	<0.005	0.018	--
Gasoline UST and Dispenser Removal/Over-Excavation										
#1	4/4/91	2.5	--	--	1,200	3.3	17	17	86	17
#2	4/4/91	15	--	--	2,900	30	180	60	350	14
#3	4/4/91	14	--	--	<1.0	0.0070	0.016	0.012	0.03	7.7
#4	4/4/91	13.5	--	--	1.0	0.0070	<0.0050	0.005	0.03	9.1
#5	4/4/91	14	--	--	4,000	<13	41	66	310	13

TABLE B-2

**HISTORICAL SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580, TRACY, CALIFORNIA**

<i>Boring/ Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TOG</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>Lead</i>
#6	4/4/91	14	--	--	5,700	20	220	110	560	80
#7	4/4/91	12.5	--	--	2.1	0.018	0.013	0.014	0.046	6.9
#10	4/4/91	4	--	--	3.3	0.20	0.043	0.06	0.16	7.7
#11	4/4/91	4	--	--	750	12	33	19	110	9.5
#12	4/4/91	4	--	--	15	0.23	0.19	0.26	1.3	6.9
#1	4/16/91	13	--	--	16	0.0090	0.014	0.021	0.17	3.6
#2	4/16/91	15	--	--	710	0.013	0.063	0.096	0.41	8.1
#5	4/16/91	13	--	--	220	<0.25	0.80	1.7	10	2.6
#8	4/16/91	14	--	--	33	0.085	0.24	0.27	1.5	6.1
#13	4/16/91	15	--	--	11	<0.025	0.047	0.044	0.31	6.1
#14	4/16/91	13	--	--	9.2	0.0050	0.0060	0.03	0.13	3.6
Used-Oil UST Removal/Over-Excavation										
#8 ¹	4/4/91	11	<30	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	3.3
#9 ²	4/4/91	11	<30	<1.0	170	<0.50	<0.50	<0.50	2.7	1.7
#15	4/16/91	18	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	6.1
Monitoring Well Borings										
MW-1	12/8/92	19	--	--	<1.0	<0.005	0.0056	<0.005	0.0079	--

TABLE B-2

**HISTORICAL SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580, TRACY, CALIFORNIA**

<i>Boring/ Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TOG</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>Lead</i>
			← reported in milligrams per kilogram (mg/kg) →							
MW-1	12/8/92	24	--	--	2,600	<5.0	79	30	200	--
MW-1	12/8/92	29	--	--	8,100	21	560	150	840	--
MW-1	12/8/92	30.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--
MW-1	12/8/92	38.5	--	--	<1.0	<0.005	0.013	<0.005	0.024	--
MW-5/B-4	5/25/93	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.015	--
MW-5/B-4	5/25/93	15	--	--	<1.0	<0.005	<0.005	<0.005	<0.015	--
MW-6	10/27/95	9.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-6	10/27/95	14.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-6	10/27/95	29.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-7	10/24/95	10.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-7	10/24/95	14.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-7	10/24/95	24.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-8	10/25/95	24.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-8	10/25/95	29.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
MW-8	10/25/95	39.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--

Notes/Abbreviations:

fbg = feet below grade

TOG = Total oil and grease

TPHd/TPHg = Total petroleum hydrocarbons as diesel and gasoline, respectively

-- = Not analyzed

< = Not detected at or above stated laboratory reporting limit

1 = Cadmium (4.8 mg/kg), chromium (7.9 mg/kg), nickel (10 mg/kg), and zinc (23 mg/kg) also detected; halogenated VOCs (HVOCs) not detected

2 = Cadmium (2.2 mg/kg), chromium (4.4 mg/kg), nickel (8.5 mg/kg), and zinc (13 mg/kg) also detected; HVOCs not detected.

TABLE B-3

**HISTORICAL GRAB-GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-7127
GRANT LINE ROAD AND INTERSTATE 580, TRACY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>
← reported in micrograms per liter (µg/L) →						
MW-4/B-2	5/21/93	<50	12	2.0	<0.50	1.0
B-3	5/21/93	96	1.0	0.50	<0.50	<0.50
MW-5/B-4	5/25/93	<50	<0.50	<0.50	<0.50	0.9

Notes:

TPHg total petroleum hydrocarbons as gasoline

<x not detected at or above laboratory reporting limit x

ATTACHMENT C

DRILLING PERMIT AND BORING LOGS



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1-580 and Grantline Rd

PERMIT NUMBER 2011080
WELL NUMBER 2S/4E-19N8 to 19N15
APN 99B-7700-012-02

10 S. Grantline Rd, Livermore CA 94550

Coordinates Source _____ ft. Accuracy _____ ft.
LAT: 37°44'21.33" N ft. LONG: 121°35'07.20" W ft.
APN 99B-7700-12-2

PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT
Name Chyron Environmental Management Co
Address 2280 Box 6012 Rm K2204 Phone _____
City San Ramon, CA Zip 94583

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.**
 3. Permit is void if project not begun within 90 days of approval date.
 4. **Notify Zone 7 at least 24 hours before the start of work.**

APPLICANT
Name Conistoga-Lovers & Associates (John Bostick)
Email jbostick@claworld.com Fax 916 889-8999
Address 10919 Trade Center Dr #107 Phone 916 889 8932
City Rancho Cordova CA Zip 95670

- B. WATER SUPPLY WELLS**
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction Geotechnical Investigation _____
Well Destruction _____ Contamination Investigation _____
Cathodic Protection _____ Other _____

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:
Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring
Dewatering _____ Other _____

- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push _____ Other Sonic

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY Spant Longyear

- F. WELL DESTRUCTION.** See attached.

DRILLER'S LICENSE NO. 094696 Exp 8/31/11

- G. SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

WELL SPECIFICATIONS:
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 4 in. Depth 40 ft.
Surface Seal Depth 20 ft. Number 7

SOIL BORINGS:
Number of Borings 5 Maximum _____
Hole Diameter 6 in. Depth 40 ft.

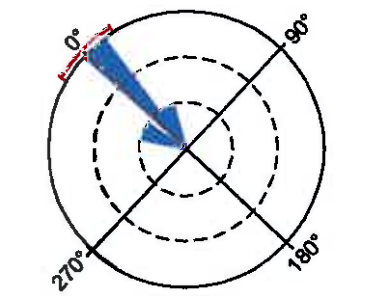
ESTIMATED STARTING DATE 8/15/11
ESTIMATED COMPLETION DATE 8/19/11

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

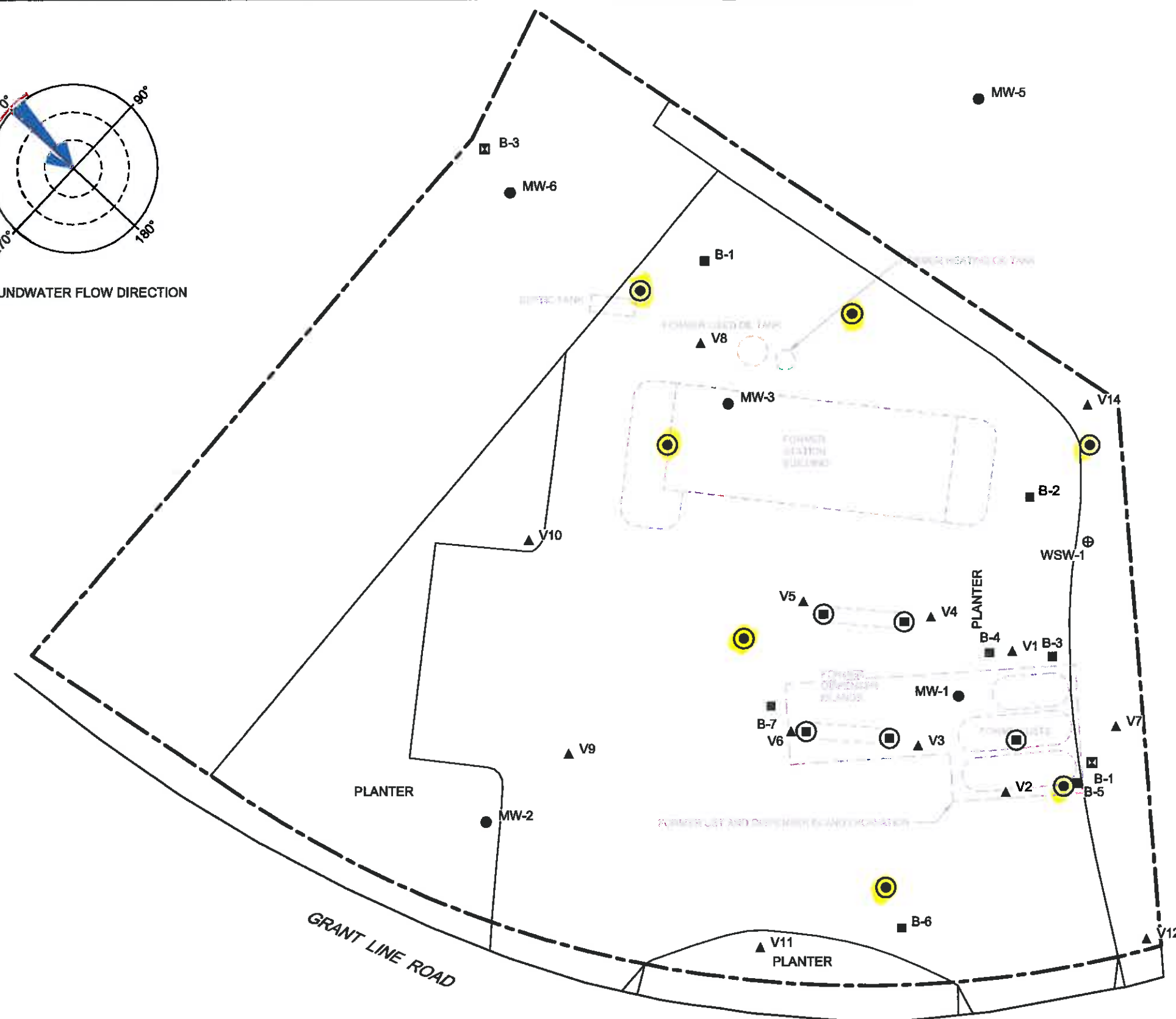
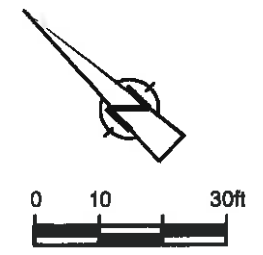
Approved Wyman Hong Date 8/9/11
Wyman Hong

APPLICANT'S SIGNATURE JL Bostick Date 8/14/11

ATTACH SITE PLAN OR SKETCH



GROUNDWATER FLOW DIRECTION



- LEGEND**
- PROPOSED MONITORING WELL LOCATION
 - PROPOSED BORING LOCATION
 - MONITORING WELL LOCATION
 - ⊕ WATER SUPPLY WELL (LIVESTOCK)
 - SOIL BORING LOCATION (KLEINFELDER)
 - ⊠ SOIL BORING LOCATION (PEG)
 - ▲ APPROXIMATE SOIL VAPOR SAMPLE LOCATION

Figure 2
 SITE PLAN AND PROPOSED BORING AND WELL LOCATIONS
 FORMER CHEVRON SERVICE STATION 9-7127
 GRANT LINE ROAD AND INTERSTATE 580
 Tracy, California



Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- First encountered groundwater
- Static groundwater
- Soils logged by hand-auger or air-knife cuttings
- Soils logged by drill cuttings or disturbed sample
- Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- Hydropunch screen interval

- PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)
- fbg = Feet below grade
- Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval
- (10YR 4/4) = Soil color according to Munsell Soil Color Charts
- msl = Mean sea level
- Soils logged according to the USCS.

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions		Graphic	Group Symbol	Typical Description
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and Sandy Soils		SW	Well-graded sands, gravelly sands, little or no fines
			SP	Poorly-graded sands, gravelly sand, little or no fines
		SM	Silty sands, sand-silt mixtures	
	SC	Clayey sands, sand-clay mixtures		
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays		ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
			CH	Inorganic clays of high plasticity
			OH	Organic clays of medium to high plasticity, organic silts
Highly Organic Soils			PT	Peat, humus, swamp soils with high organic contents





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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-9
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	22-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	22-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	330.11 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	332.56 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	27 to 37 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.5 fbg (22-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	30.6 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		MW-9-5	5	SM		FILL - Silty SAND: Very pale light brown; dry; non-plastic; loose; medium to fine sand; fine to coarse gravel up to 1/3"-diam, angular.	5.0	
0.0		MW-9-10	10	ML		FILL - Sandy SILT: Dark brown; moist; low plasticity; fine sand; fine gravel, angular.	8.5	
0.0		MW-9-10	10			SANDSTONE: Dusky brown; dry; fine to medium sand; quartz, mafic minerals; moderately weathered; loose; medium soft to hard; planar lineations observed.		
7.0		MW-9-15	15					
2.6		MW-9-20	20			@ 17 fbg: Brown to pale brown; moderate alterations; unconsolidated; fine to medium sand; coarse gravel, subrounded to rounded; oxidation staining.		
434		MW-9-25	25			@ 24.5 fbg: Greenish discoloration.		
72.0		MW-9-30	30			@ 27 fbg: Very hard; fine to medium sand. Sandy SILTSTONE: Brown to dark brown; wet; very fine sand; medium soft to soft hardness; platy fracturing.		

WELL LOG (PID) I:\PROJECT-2\16-CHAR\631656-1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-9
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 22-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 22-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
18.3		MW-9- 35		35			Sandy SILTSTONE: Same soil matrix as above; brown to dark brown; fine sand; medium soft to soft hardness. ▼	37.0	<p>2"-diam., 0.010" Slotted Schedule 40 PVC</p> <p>Bottom of Boring @ 37 fbg</p>

WELL LOG (PID) I:\PROJECT-2\16-CHAR\63\...6316--631656\634676--1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-10
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	23-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	329.40 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	331.77 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	27 to 37 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	27.0 fbg (23-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	29.8 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		MW-10 -5	5	SM		FILL - Silty SAND with gravel: Pale brown; dry; hard; fine sand and gravel; concrete debris up to 4"-diam.		Concrete
3.0		MW-10 -10	10	CL		FILL - CLAY with sand: Dusky brown; moist; low plasticity; fine sand; fine gravel up to 1/5"-diam.	9.0	
				SM		FILL - Silty SAND with gravel: Dusky brown; moist; loose; fine sand; fine gravel up to 1/4"-diam.	12.0	Portland Type I/II
5.2		MW-10 -15	15			SANDSTONE: Dark brownish gray; dry/moist; medium soft hardness; fine to medium sand, quartz and mafic minerals; derived from volcanic rocks; subrounded to subangular; moderately weathered.	13.5	
1,037		MW-10 -20	20			@ 19 fbg: Poorly sorted; medium soft hardness; coarse gravel up to 1/3"-diam, subrounded to angular; moderately weathered.		
284		MW-10 -25	25					Bentonite Seal
1,254		MW-10 -27				@ 27 fbg: Wet.	▽	Monterey Sand #2/16
227		MW-10 -30	30				▽	

WELL LOG (PID) I:\PROJECT-216-CHAR\631656-1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-10
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 23-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
96.2		MW-10 -35		35			@ 30 fbg: Same soil matrix as above; poor recovery due to saturated sandstone; dark brown; wet; loose; fine to medium sand, subrounded to subangular; coarse gravel gravel up to 1.5"-diam, subrounded to rounded; conglomerate pebbles.	37.0	<p>2"-diam., 0.010" Slotted Schedule 40 PVC</p> <p>Bottom of Boring @ 37 fbg</p>

WELL LOG (PID) I:\PROJECT-2\16-CHAR\63\...6316--631656\634676--1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-11
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	23-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	329.62 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	331.98 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	24 to 34 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.0 fbg (23-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	31.5 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		FILL - Silty SAND: Tannish brown; dry; loose; fine to medium sand; coarse gravel up to 2"-diam, subrounded to subangular; concrete debris up to 4"-diam.	3.0	Concrete
0.4		MW-11 -5		5	CL		FILL - Sandy CLAY: Brown to dark brown; dry/moist; low plasticity; fine to medium sand; fine gravel, subangular to angular; cobbles up to 3"-diam.	8.5	
0.4		MW-11 -10		10	SM		FILL - Silty SAND with gravel: Moderate brown; dry; loose; fine to medium sand; coarse gravel up to 1 1/5"-diam, rounded to subangular.		Portland Type I/II
27.6		MW-11 -15		15			@ 14 fbg: Grayish brown.	16.0	
					CL		FILL - Sandy CLAY with gravel: Grayish/blackish brown; moist/dry; low plasticity; firm; coarse gravel up to 3/4"-diam., rounded to subrounded.	19.5	
17.1		MW-11 -20		20			SANDSTONE: Blackish brown; moist/dry; moderate hardness; moderately weathered; planar laminations observed; fine to medium sand; fine gravel up to 1/2"-diam., subangular to subrounded; reddish oxidation observed.		Bentonite Seal
157		MW-11 -25		25			@ 27 fbg: Fine gravel up to 1/4"-diam., subangular; highly weathered. @ 28 fbg: Wet; saturated sandstone		Monterey Sand #2/16
1,113		MW-11 -30		30					2"-diam., 0.010" Slotted

WELL LOG (PID) I:\PROJECT-216-CHAR\631656-1631656-GINT.GPJ DEFAULT.GDT 10/25/11



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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-11
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 23-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
199		MW-11 -35	35			@ 30 fbg: Same soil matrix as above; wet; moderate to highly weathered, friable pieces.	37.0	<p>Schedule 40 PVC</p> <p>Bottom of Boring @ 37 fbg</p>

WELL LOG (PID) I:\PROJECT-2\16-CHAR\63\6316-631656-631656-1631656-GINT.GPJ DEFAULT.GDT 10/25/11



CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-12
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	24-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	330.27 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	332.53 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	22 to 32 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	27.0 fbg (24-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	29.0 fbg (26-Aug-11)
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.2		MW-12-5		5	SC		FILL - Clayey SAND: Light brown; dry; low plasticity; fine to medium sand; fine gravel up to 1/3"-diam., subrounded to angular.	7.0	Concrete
0.2		MW-12-10		10	SM		FILL - Silty SAND with gravel: Yellowish brown; dry/moist; loose; fine to medium sand; fine gravel up to 1/4"-diam., subrounded; cobbles up to 3 1/2"-diam. @ 11.5 fbg: Dusky dark brown	13.5	Portland Type I/II
0.7		MW-12-15		15			SANDSTONE: Dusky dark brown; dry/moist; medium soft hardness; moderately to highly weathered; fine to medium sand; fine to very coarse gravel to 1 1/2"-diam., rounded to subangular; conglomeritic; poorly graded; weakly oxidized.		
1.1		MW-12-20		20			@ 20 fbg: Dusky yellow brown		Bentonite Seal
1.6		MW-12-25		25			@ 22 fbg: Dusky yellow brown; medium sand, quartz, weathered mafic minerals; coarse gravel up to 3/4"-diam., angular to subrounded. @ 25 fbg: Moderate hardness; intense fracturing observed; moderately oxidized gravel		Monterey Sand #2/16
				27			@ 27 fbg: Wet; saturated sandstone; little to no recovery to a depth of 34 fbg.		2"-diam., 0.010" Slotted Schedule 40 PVC
				30					

WELL LOG (PID) I:\PROJECT-216-CHAR\631656-1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-12
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 24-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
8.4		MW-12 -35		35			@ 34 fbg: Same soil matrix as above; saturated sandstone; fine to medium sand; coarse gravel up to 1"-diam., subrounded.	37.0	 Bottom of Boring @ 37 fbg

WELL LOG (PID) I:\PROJECT-2\16-CHAR\63\...6316--631656\634676--1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-13
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	24-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	329.50 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	331.60 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	24 to 39 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.0 fbg (24-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	30.1 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.3		MW-13-5	5	ML		FILL - Sandy SILT: Pale brown; dry; loose; fine to medium sand; fine gravel, angular to subangular. @ 7 fbg: Increasing clay content		
1.1		MW-13-10	10	SM		FILL - Silty SAND with gravel: Dusky dark brown; dry; loose; soft hardness; fine to medium sand; very coarse gravel up to 2"-diam., subrounded to subangular.	9.5	
3.3		MW-13-15	15	CL		FILL - CLAY with sand: Dusky yellowish brown; dry/moist; low to medium plasticity; fine sand.	16.5	
1.1		MW-13-20	20			SANDSTONE: Dusky yellowish brown; dry; moderate hardness; moderately weathered; highly fractured; fine to medium sand; fine gravel up to 1/4"-diam., subangular to rounded. @ 25 fbg: Brownish black gray; highly weathered; friable fragments of sandstone. @ 28 fbg: Wet; little to no recovery to 31.5 fbg; heavily saturated sandstone.	19.5	
2.7		MW-13-25	25					
			30					

WELL LOG (PID) I:\PROJECT-216-CHAR\631656-1631656-GINT.GPJ DEFAULT.GDT 9/26/11



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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-13
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 24-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.0		MW-13 -35		35			<p>SANDSTONE: Brownish black gray; wet; loose; fine to medium sand, mafic minerals observed, volcanic in nature; fine gravel up to 1/7"-diam.; highly weathered; friable.</p> <p>@ 37 fbg: Tannish brown; dry.</p> <p>@ 38 fbg: Wet; saturated sandstone; fine sand; moderately weathered; highly fragmented, friable.</p> <p>@ 42 fbg: Increased clay content; intense fracturing; brittle.</p> <p>@ 45 fbg: Increased sand content; hard; moderately weathered; fine to medium sand; mafic minerals; moderately oxidized.</p>		
0.0		MW-13 -40		40					
0.3		MW-13 -45		45					
								47.0	Bottom of Boring @ 47 fbg

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CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-14
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	24-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	329.89 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	332.24 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	22 to 32 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	27.0 fbg (24-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	30.9 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.1		MW-14 -5		5	SM		FILL - Silty SAND: Moderate dusky brown; dry; loose; fine to medium sand; fine gravel up 1/5"-diam.	3.5	Concrete
					CL		FILL - Sandy CLAY: Moderate dusky brown; dry; low plasticity; fine sand; fine gravel.		
0.7		MW-14 -10		10	SM		FILL - Silty SAND with gravel: Blackish brown; dry; compact; fine to medium sand; very coarse gravel up to 2"-diam., subangular to subrounded.	9.0	Portland Type I/II
2.0		MW-14 -15		15			SANDSTONE: Blackish brown; dry; hard; fine to medium sand; coarse gravel to 3/4"-diam., subrounded to subangular; moderately weathered; lithified.	13.5	
18.6		MW-14 -20		20			@ 18 fbg: Brownish black/gray; moist; soft hardness; moderately to highly weathered.		Bentonite Seal
543		MW-14 -25		25			@ 25 fbg: Soft hardness; moderate to intense fracturing observed.		Monterey Sand #2/16
							@ 27 fbg: Wet; little to no recovery to 34 fbg; highly saturated sandstone.		2"-diam., 0.010" Slotted Schedule 40 PVC
				30					

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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-14
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 24-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
18.2		MW-14 -35		35			<p style="text-align: center;">▼</p> <p>@ 34 fbg: Same soil matrix as above; brownish black/gray; wet; hard; fine to medium sand; medium gravel up to 2/3"-diam., subrounded to angular; moderately to highly weathered.</p>	37.0	 Bottom of Boring @ 37 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	MW-15
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	23-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	25-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	330.33 ft above msl
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	332.88 ft above msl
BORING DIAMETER	6"	SCREENED INTERVAL	25.5 to 35.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	29.0 fbg (25-Aug-11) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	31.3 fbg (26-Aug-11) ▽
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		MW-15-5		5	SM		<p>FILL - Silty SAND with gravel: Pale brown; dry; loose; fine to medium sand; fine to medium gravel up to 1/2"-diam., subangular to subrounded.</p> <p>@ 4 fbg: Yellowish brown; increasing gravel content; fine gravel up 1/3"-diam., rounded to subangluar.</p>	7.5	<p>Concrete</p>
0.5		MW-15-10		10			<p>SANDSTONE: Dusky brown/gray; dry; hard, more competent sandstone; loose; fine to medium sand; very coarse gravel, fine cobble up to 3"-diam., subrounded to subangular; mafic minerals, minor calcium carbonate observed; moderately weathered; oxidized staining.</p>		<p>Portland Type I/II</p>
6.2		MW-15-15		15			<p>@ 15 fbg: Hard; highly cemented.</p>		
5.1		MW-15-20		20			<p>@ 18 fbg: Blackish dusky brown; dry/moist; loose; soft hardness; fine to medium sand; fine gravel up to 1/5"-diam., moderately to highly weathered.</p>		<p>Bentonite Seal</p>
67.6		MW-15-25		25			<p>@ 25 fbg: Intense fracturing; very coarse gravel up to 1 1/2"-diam., subrounded to subangular.</p>		<p>Monterey Sand #2/16</p>
195		MW-15-30		30			<p>@ 29 fbg: Wet; medium soft to hard; fine to medium sand; parting common at bedding planes.</p>	▽	

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BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Co. **BORING/WELL NAME** MW-15
JOB/SITE NAME Former Chevron Service Station 9-7127 **DRILLING STARTED** 23-Aug-11
LOCATION Grant Line Road and Interstate-580, Tracy, CA **DRILLING COMPLETED** 25-Aug-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
2.7		MW-15 -35		35			<p>SANDSTONE: Same soil matrix as above; dusky black/brown; wet; loose; medium soft to hard; fine to medium sand; fine gravel up to 1/6"-diam.; parting at bedding planes (fractured); odor diminishes.</p>	38.0	<p>2"-diam., 0.010" Slotted Schedule 40 PVC</p> <p>Bottom of Boring @ 38 fbg</p>

WELL LOG (PID) I:\PROJECT-2\16-CHAR\63-16-1631656-GINT.GPJ DEFAULT.GDT 10/25/11



CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-8
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	24-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	25-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.0 fbg (25-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		FILL - Silty SAND with gravel: Pale brown; dry; loose; fine sand; coarse gravel up to 3/4"-diam., subrounded to subangular	4.0	
		B-8-5		5			FILL - Clayey SAND with gravel: Dark grayish brown; dry; low plasticity; fine to medium sand; coarse gravel up to 5/6"-diam., rounded to subangular.		
1.1		B-8-10		10	SC				
1		B-8-15		15			SANDSTONE: Moderate grayish brown; dry; medium soft hardness; fine to medium sand, mafic minerals observed; very coarse gravel up to 1 1/2"-diam., rounded to subangular; moderately to highly weathered; parting common at bedding planes, laminated; oxidation staining conglomeritic; highly cemented sandstone.	13.0	
5.9		B-8-20		20			@ 20 fbg: Brownish black		
5.5		B-8-25		25			@ 25 fbg: Brownish black; moist; highly cemented, moderate hardness.		
		B-8-W					@ 28 fbg: Wet; highly fractured; loose; soft to medium soft hardness; moderately weathered.		
168		B-8-30		30				30.0	Bottom of Boring @ 30 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-9
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	24-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	25-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.0 fbg (25-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		B-9-5		5	SC		FILL - Clayey SAND: Yellowish brown/moderate brown; dry; low to medium plasticity; fine sand; fine gravel; subrounded to subangular.		
5.6		B-9-10		10	SM		Silty SAND: Yellowish brown/gray; dry; loose; fine sand; fine to very coarse gravel up to 2 1/2"-diam., subrounded to subangular.	9.0	
9.1		B-9-15		15			SANDSTONE: Brownish gray; moist/dry; hard; fine to medium sand, mafic minerals observed; moderately weathered; parting common at bedding planes; highly cemented/fractured.	12.5	
157		B-9-20		20			@ 19 fbg: Mafic minerals observed; minor feldspars; fine to medium gravel up to 1/3"-diam., subrounded; hard; strong fracturing, moderately weathered.		
882		B-9-25		25					
1,459		B-9-27							
323		B-9-30		30			@ 28 fbg: Wet; 1/4"-thick product observed in groundwater in bailer - no sample collected.	30.0	
									Bottom of Boring @ 30 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-10
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	24-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	25-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	28.5 fbg (25-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		B-10-5		5	SM		FILL - Silty SAND: Pale brown; dry; loose; fine to medium sand; fine gravel, subrounded.		
0.0		B-10-10		10			@ 9.5 fbg: Dusky brown/gray; fine gravel up to 1/4"-diam., subrounded; fine cobble up to 3"-diam., rounded to subangular.	11.5	
0.0		B-10-15		15			SANDSTONE: Dusky brown/gray; dry; loose; hard; fine to medium sand, mafic minerals observed; fine to medium gravel up to 1/2"-diam., rounded to subangular; oxidized staining around gravels. @ 15 fbg: Parting common at bedding planes; soft hardness.		
0.0		B-10-20		20			@ 20 fbg: Brownish gray/black; hard; fine to medium sand; very coarse gravel up to 1 1/2"-diam., rounded.		
1.4		B-10-25		25			@ 24 fbg: Moist/dry		
8.0		B-10-30		30			@ 28 fbg: Wet; parting common at bedding planes; 1/10"-thick product observed in groundwater in bailer - no sample collected.	30.0	
									Bottom of Boring @ 30 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-11
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	24-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	26-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	O. Yan/J. Bostick	DEPTH TO WATER (First Encountered)	26.1 fbg (26-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		B-11-5		5	SM		FILL - Silty SAND: Dark brown; dry; fine sand; fine gravel up to 1/6"-diam., subrounded to subangular; dense.		<p>Portland Type I/II</p> <p>Bottom of Boring @ 30 fbg</p>
8.0		B-11-10		10			@ 9 fbg: Light brown; dry; fine sand; fine to very coarse gravel up to 2 1/2"-diam., subrounded to subangular.	11.0	
0.0		B-11-15		15			SANDSTONE: Light brown; dry; hard; fine sand; fine to medium gravel up to 1/2"-diam., subangular.		
		B-11-20		20			@ 15 fbg: Parting common at bedding planes.		
203		B-11-25		25			@ 26 fbg: Dark brown; wet; staining observed; fine to medium sand.		
394		B-11-27		27			@ 28 fbg: Wet; 3/10"-thick product observed in groundwater in bailer - no sample collected.		
1,234		B-11-30		30				30.0	

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-12
JOB/SITE NAME	Former Chevron Service Station 9-7127	DRILLING STARTED	24-Aug-11
LOCATION	Grant Line Road and Interstate-580, Tracy, CA	DRILLING COMPLETED	26-Aug-11
PROJECT NUMBER	631656	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Boart Longyear	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Sonic	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	O. Yan/J. Bostick	DEPTH TO WATER (First Encountered)	28.5 fbg (26-Aug-11)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg with Air Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		B-12-5		5	SM		FILL - Silty SAND with gravel: Grayish brown; dry; loose; fine to medium sand; coarse gravel up to 1"-diam.		
543		B-12-10		10	SW SM		FILL - SAND with silt: Light brown; dry; fine to medium sand; fine to medium gravel up to 1/2"-diam.	8.0	
977		B-12-15		15				17.0	
2,523		B-12-20		20			SANDSTONE: Dark brown; moist; medium soft hardness; fine to medium sand; fine to coarse gravel up to 1 1/2"-diam., rounded to subangular; moderately weathered, highly fractured; parting common at bedding planes; product to 30 fbg.		
12.3		B-12-26		25					
54.7		B-12-30		30			@ 28.5 fbg: Wet; 1/5"-thick product observed in groundwater in bailer - no sample collected.	30.0	Bottom of Boring @ 30 fbg

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ATTACHMENT D

STANDARD FIELD PROCEDURES

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR SOIL BORING AND MONITORING WELL INSTALLATION

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (PG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

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Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I, II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

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Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

ATTACHMENT E

WELL SURVEY REPORT AND MAP

Virgil Chavez Land Surveying

721 Tuolumne Street

Vallejo, California 94590

(707) 553-2476 • Fax (707) 553-8698

September 19, 2011

Project No.: 3056-20

Rev. 10/07/2011

John Bostick
 Conestoga-Rovers & Associates
 10969 Trade Center Drive, Suite 107
 Rancho Cordova, CA 95670

CRA**OCT 13 2011***Received*

Subject: Monitoring Well Survey
 Frmr. Chevron Station
 Grant Line Rd./Jess Ranch Road
 Livermore, Ca.

Dear John:

This is to confirm that we have proceeded at your request to survey the monitoring wells located at the above referenced location. The survey was completed on September 6, 2011. The benchmark for this survey was an NGS disk stamped C 1258 1974 on Grant Line Road, approx. 2000 ft. northerly from the site. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Benchmark Elevation = 299.7 feet (NAVD 88).

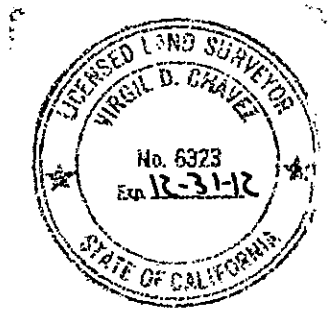
<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
				329.65	GRD MW-1
37.7390963	-121.5851897	2093402.98	6247879.04	331.93	TOC MW-1
				327.83	GRD MW-2
37.7392574	-121.5855615	2093462.90	6247772.21	329.98	TOC MW-2
				329.38	GRD MW-3
37.7393577	-121.5851619	2093498.07	6247888.19	332.03	TOC MW-3
				316.12	GRD MW-4
37.7389646	-121.5849167	2093354.13	6247957.41	320.22	TOP MW-4 (STOVEPIPE)
				312.85	GRD MW-5
37.7394298	-121.5847657	2093523.00	6248003.04	315.97	TOC MW-5
				315.31	RIM MW-6
37.7396601	-121.5851216	2093608.07	6247901.11	314.91	TOC MW-6
				313.68	GRD MW-7
37.7391808	-121.5846870	2093432.08	6248024.75	316.39	TOC MW-7
				331.13	GRD MW-8
37.7388127	-121.5856554	2093301.30	6247743.17	331.33	TOC MW-8
				330.11	GRD MW-9
37.7390322	-121.5853553	2093380.21	6247830.89	332.56	TOC MW-9
				329.40	GRD MW-10
37.7389995	-121.5851740	2093367.72	6247883.16	331.77	TOC MW-10
				329.62	GRD MW-11
37.7391931	-121.5850145	2093437.66	6247930.09	331.98	TOC MW-11
				330.27	GRD MW-12
37.7393435	-121.5850340	2093492.48	6247925.09	332.53	TOC MW-12

Virgil Chavez Land Surveying

721 Tuolumne Street
Vallejo, California 94590
(707) 553-2476 • Fax (707) 553-8698

September 19, 2011
Project No.: 3056-20
Page 2

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
37.7394586	-121.5851448	2093534.77	6247893.55	329.50	GRD MW-13
				331.60	TOC MW-13
				329.89	GRD MW-14
37.7393615	-121.5852326	2093499.71	6247867.77	332.24	TOC MW-14
				330.33	GRD MW-15
37.7392277	-121.5852876	2093451.18	6247851.28	332.88	TOC MW-15



Sincerely,

A handwritten signature in black ink that reads "Virgil D. Chavez".

Virgil D. Chavez, PLS 6323

MONITORING WELL PLAT

GRANT LINE ROAD
TRACY, CA

INTERSTATE 580 ONRAMP

GRANT LINE ROAD

JESS RANCH ROAD

N 83°30'08" E

170.33'

S 67°28'27" W
35.41'

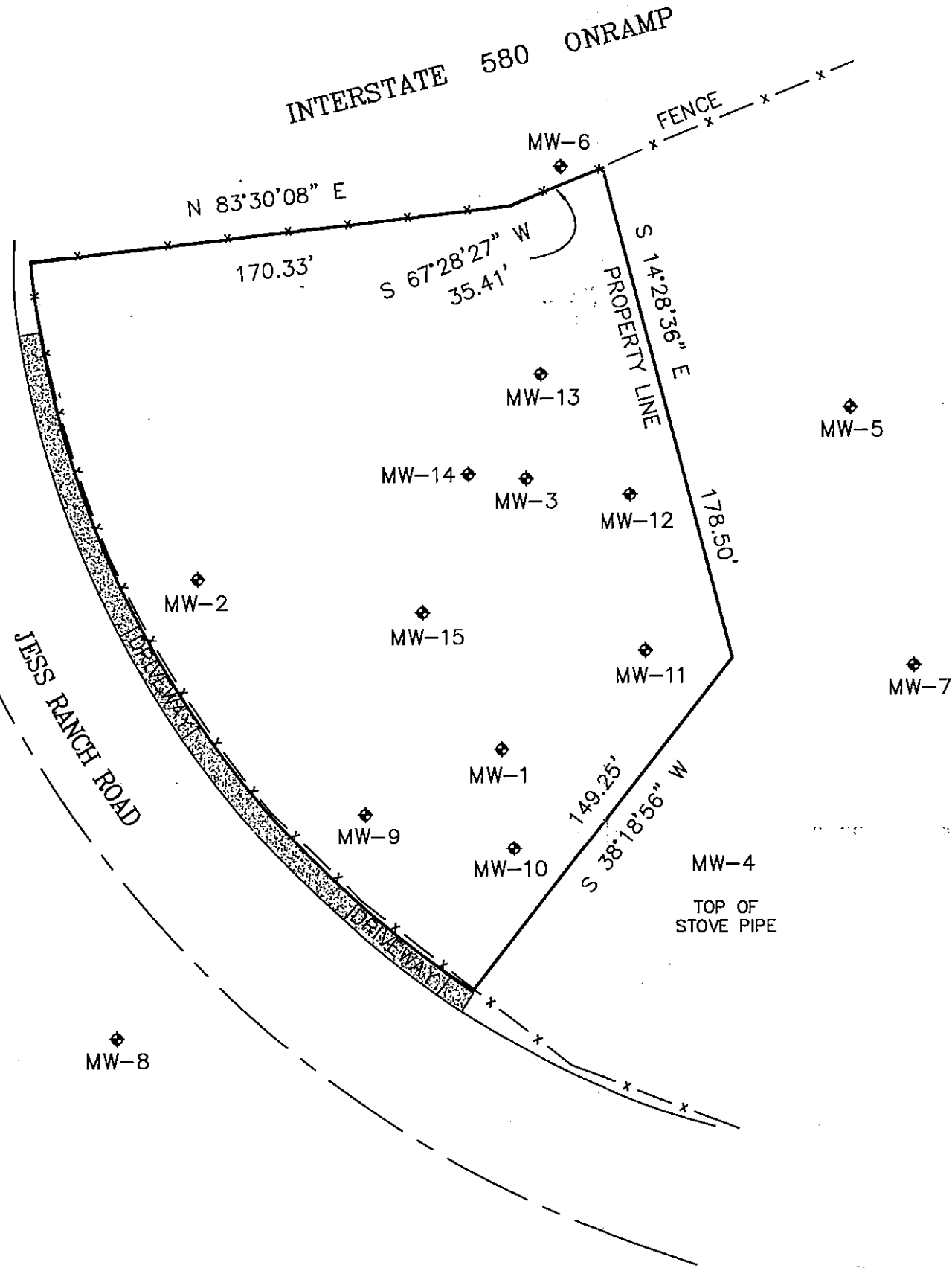
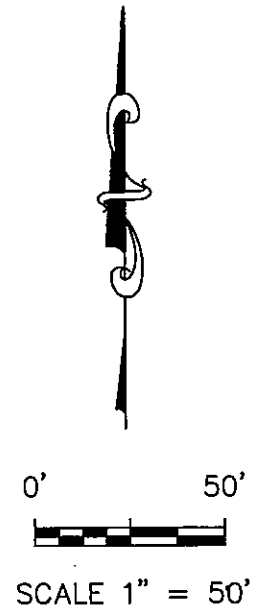
PROPERTY LINE
S 14°28'36" E

178.50'

149.25'

S 38°18'56" W

MW-4
TOP OF
STOVE PIPE

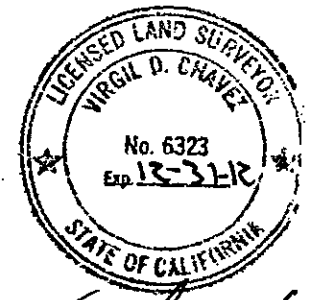


LEGEND

◆ - MONITORING WELL

NOTE:

BOUNDARY DATA COMPILED FROM RECORD



Virgil D. Chavez

VIRGIL CHAVEZ LAND SURVEYING

721 TUOLUMNE STREET
VALLEJO, CALIFORNIA
(707) 553-2476

SEPTEMBER, 2011 SCALE: 1"=50'

ATTACHMENT F

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron c/o CRA
Suite 107
10969 Trade Center Drive
Rancho Cordova CA 95670

September 21, 2011

Project: 97127

Submittal Date: 08/31/2011

Group Number: 1264328

PO Number: 97127

Release Number: MTI

State of Sample Origin: CA

Client Sample DescriptionLancaster Labs (LL) #

MW-9-S-10-110822 NA Soil	6392627
MW-9-S-15-110822 NA Soil	6392628
MW-9-S-20-110822 NA Soil	6392629
MW-9-S-25-110822 NA Soil	6392630
MW-9-S-30-110822 NA Soil	6392631
MW-9-S-35-110822 NA Soil	6392632
MW-10-S-10-110823 NA Soil	6392633
MW-10-S-15-110823 NA Soil	6392634
MW-10-S-20-110823 NA Soil	6392635
MW-10-S-25-110823 NA Soil	6392636
MW-10-S-27-110823 NA Soil	6392637
MW-10-S-30-110823 NA Soil	6392638
MW-10-S-35-110823 NA Soil	6392639
MW-9-S-5-110822 NA Soil	6392640
MW-10-S-5-110823 NA Soil	6392641
MW-11-S-5-110823 NA Soil	6392642
MW-12-S-5-110823 NA Soil	6392643
MW-11-S-10-110823 NA Soil	6392644
MW-11-S-15-110823 NA Soil	6392645
MW-11-S-20-110823 NA Soil	6392646
MW-11-S-25-110823 NA Soil	6392647
MW-11-S-30-110823 NA Soil	6392648
MW-11-S-35-110823 NA Soil	6392649
B-10-S-5-110824 NA Soil	6392650
MW-12-S-10-110824 NA Soil	6392651
MW-12-S-15-110824 NA Soil	6392652
MW-13-S-45-110824 NA Soil	6392653

MW-14-S-10-110824 NA Soil	6392654
MW-14-S-15-110824 NA Soil	6392655
MW-14-S-20-110824 NA Soil	6392656
MW-14-S-25-110824 NA Soil	6392657
MW-14-S-35-110824 NA Soil	6392658
MW-13-S-5-110823 NA Soil	6392659
MW-15-S-5-110823 NA Soil	6392660
MW-12-S-20-110824 NA Soil	6392661
MW-12-S-25-110824 NA Soil	6392662
MW-12-S-35-110824 NA Soil	6392663
B-9-S-5-110824 NA Soil	6392664
B-8-S-5-110824 NA Soil	6392665
B-12-S-5-110824 NA Soil	6392666
B-11-S-5-110824 NA Soil	6392667
MW-13-S-10-110824 NA Soil	6392668
MW-13-S-15-110824 NA Soil	6392669
MW-13-S-20-110824 NA Soil	6392670
MW-13-S-25-110824 NA Soil	6392671
MW-13-S-35-110824 NA Soil	6392672
MW-13-S-40-110824 NA Soil	6392673
MW-15-S-10-110825 NA Soil	6392674
MW-15-S-15-110825 NA Soil	6392675
MW-15-S-20-110825 NA Soil	6392676
MW-15-S-25-110825 NA Soil	6392677
MW-15-S-30-110825 NA Soil	6392678
MW-15-S-35-110825 NA Soil	6392679
B-8-S-10-110825 NA Soil	6392680
B-8-S-15-110825 NA Soil	6392681
B-8-S-20-110825 NA Soil	6392682
B-8-S-25-110825 NA Soil	6392683
B-8-S-30-110825 NA Soil	6392684
B-9-S-10-110825 NA Soil	6392685
B-9-S-15-110825 NA Soil	6392686
B-9-S-20-110825 NA Soil	6392687
B-9-S-25-110825 NA Soil	6392688
B-9-S-30-110825 NA Soil	6392689
B-9-S-27-110825 NA Soil	6392690
B-10-S-10-110825 NA Soil	6392691
B-10-S-15-110825 NA Soil	6392692
B-10-S-20-110825 NA Soil	6392693
B-10-S-25-110825 NA Soil	6392694
B-10-S-30-110825 NA Soil	6392695
B-11-S-10-110826 NA Soil	6392696
B-11-S-15-110826 NA Soil	6392697
B-11-S-20-110826 NA Soil	6392698
B-11-S-25-110826 NA Soil	6392699
B-8-W-28-110825 NA Water	6392700
B-11-S-27-110826 NA Soil	6392701

B-11-S-30-110826 NA Soil	6392702
B-12-S-10-110826 NA Soil	6392703
B-12-S-15-110826 NA Soil	6392704
B-12-S-20-110826 NA Soil	6392705
B-12-S-26-110826 NA Soil	6392706
B-12-S-30-110826 NA Soil	6392707
MW-14-S-5-1108223 NA Soil	6392708

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Chevron c/o CRA
COPY TO
ELECTRONIC Chevron c/o CRA
COPY TO

Attn: CRA EDD

Attn: James Kiernan

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-9-S-10-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392627
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 14:55 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.0005	0.0005	0.005	0.98
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.98
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.98
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.76

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 17:43	Andrea E Lando	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:27	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 20:59	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 19:17	Carrie E Miller	23.76
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:01	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: MW-9-S-15-110822 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392628
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 14:57 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.0008	0.0005	0.005	0.97
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	0.001	0.001	0.005	0.97
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 18:05	Andrea E Lando	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:06	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 19:55	Carrie E Miller	24.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:08	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: MW-9-S-20-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392629
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 15:08 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.95
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.95
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.95
10950	Toluene	108-88-3	0.001	0.0009	0.005	0.95
10950	Xylene (Total)	1330-20-7	N.D.	0.0009	0.005	0.95
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 18:28	Andrea E Lando	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:11	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 20:32	Carrie E Miller	24.13
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:13	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-9-S-25-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392630
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 15:18 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.024	0.24	47.98
10950	Ethylbenzene	100-41-4	0.089	0.048	0.24	47.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	47.98
10950	Toluene	108-88-3	0.064	0.048	0.24	47.98
10950	Xylene (Total)	1330-20-7	0.64	0.048	0.24	47.98

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	62	7.9	197.04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112441AA	09/01/2011 20:06	Lauren C Temple	47.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:16	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 11:06	Carrie E Miller	197.04
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:17	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-9-S-30-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392631
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 16:00 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M9-30

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.001	0.0005	0.005	0.96
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.96
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.96
10950	Toluene	108-88-3	0.003	0.001	0.005	0.96
10950	Xylene (Total)	1330-20-7	0.002	0.001	0.005	0.96
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	1.3	0.9	0.9	23.58

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 18:50	Andrea E Lando	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:22	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 21:10	Carrie E Miller	23.58
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:23	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-9-S-35-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392632
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 16:04 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-35

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.003	0.0005	0.005	0.97
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	0.008	0.001	0.005	0.97
10950	Xylene (Total)	1330-20-7	0.003	0.001	0.005	0.97
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.92

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 19:12	Andrea E Lando	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:28	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 21:48	Carrie E Miller	23.92
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:30	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-10-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392633
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:10 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1010

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.005	0.0005	0.005	0.97
10950	Ethylbenzene	100-41-4	0.001	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	0.013	0.001	0.005	0.97
10950	Xylene (Total)	1330-20-7	0.005	0.001	0.005	0.97
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	3.7	0.9	0.9	23.39

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 19:34	Andrea E Lando	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:34	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 11:44	Carrie E Miller	23.39
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:36	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: MW-10-S-15-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392634
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:11 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1015

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.004	0.0005	0.005	0.93
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.93
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.93
10950	Toluene	108-88-3	0.007	0.0009	0.005	0.93
10950	Xylene (Total)	1330-20-7	0.001	0.0009	0.005	0.93
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.9	0.9	23.26

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 19:57	Andrea E Lando	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:42	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 22:26	Carrie E Miller	23.26
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:44	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-20-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392635
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:26 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1020

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.72	0.046	0.46	91.74
10950	Ethylbenzene	100-41-4	8.1	0.092	0.46	91.74
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.046	0.46	91.74
10950	Toluene	108-88-3	12	0.092	0.46	91.74
10950	Xylene (Total)	1330-20-7	39	0.092	0.46	91.74
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	870	97	97	2422.48

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112441AA	09/01/2011 20:29	Lauren C Temple	91.74
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:28	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:49	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 12:22	Carrie E Miller	2422.48
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:50	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-25-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392636
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:30 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1025

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.003	0.0005	0.005	0.99
10950	Ethylbenzene	100-41-4	0.009	0.001	0.005	0.99
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene	108-88-3	0.016	0.001	0.005	0.99
10950	Xylene (Total)	1330-20-7	0.064	0.001	0.005	0.99
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	3.2	0.9	0.9	23.58

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 17:52	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:54	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 14:15	Carrie E Miller	23.58
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 21:56	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-27-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392637
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:31 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1027

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	1.2	0.046	0.46	91.58
10950	Ethylbenzene	100-41-4	17	0.092	0.46	91.58
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.046	0.46	91.58
10950	Toluene	108-88-3	34	0.92	4.6	915.75
10950	Xylene (Total)	1330-20-7	88	0.92	4.6	915.75
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	2,100	190	190	4752.85

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 14:46	Lauren C Temple	91.58
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 15:09	Lauren C Temple	915.75
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 21:59	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 13:00	Carrie E Miller	4752.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 22:01	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-30-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392638
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 12:00 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1030

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.16	0.024	0.24	48.08
10950	Ethylbenzene	100-41-4	0.44	0.048	0.24	48.08
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	48.08
10950	Toluene	108-88-3	1.2	0.048	0.24	48.08
10950	Xylene (Total)	1330-20-7	2.3	0.048	0.24	48.08
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	58	7.8	7.8	194.36

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112441AA	09/01/2011 21:14	Lauren C Temple	48.08
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:07	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 13:37	Carrie E Miller	194.36
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 22:09	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-10-S-35-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392639
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 12:03 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1035

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.011	0.0005	0.005	0.97
10950	Ethylbenzene	100-41-4	0.015	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	0.034	0.001	0.005	0.97
10950	Xylene (Total)	1330-20-7	0.028	0.001	0.005	0.97
GC Volatiles			SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	3.4	1	1	24.39

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 22:56	Andrea E Lando	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:14	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 14:53	Carrie E Miller	24.39
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 22:16	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-9-S-5-110822 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-9

LLI Sample # SW 6392640
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/22/2011 13:35 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M9-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.006	0.0005	0.005	0.95
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.95
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.95
10950	Toluene	108-88-3	0.012	0.0009	0.005	0.95
10950	Xylene (Total)	1330-20-7	0.002	0.0009	0.005	0.95
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.56

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 20:19	Andrea E Lando	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 22:29	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 22:20	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A16B	09/03/2011 23:03	Carrie E Miller	24.56
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 22:22	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-10-S-5-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-10

LLI Sample # SW 6392641
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 09:00 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1005

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.005	0.0005	0.005	0.97
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	0.008	0.001	0.005	0.97
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.58

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 20:42	Andrea E Lando	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:17	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 11:22	Marie D John	24.58
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 23:19	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-11-S-5-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392642
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 10:17 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.004	0.0005	0.005	0.98
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10950	Toluene	108-88-3	0.007	0.001	0.005	0.98
10950	Xylene (Total)	1330-20-7	0.001	0.001	0.005	0.98
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.32

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 21:04	Andrea E Lando	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:23	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 11:55	Marie D John	24.32
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 23:25	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-12-S-5-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392643
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 11:48 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.002	0.0005	0.005	0.98
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10950	Toluene	108-88-3	0.006	0.001	0.005	0.98
10950	Xylene (Total)	1330-20-7	0.001	0.001	0.005	0.98
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.9	0.9	23.52

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 21:27	Andrea E Lando	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:29	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 12:28	Marie D John	23.52
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 23:31	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Sample Description: MW-11-S-10-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392644
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 14:45 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.001	0.0005	0.005	0.96
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.96
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.96
10950	Toluene	108-88-3	0.001	0.001	0.005	0.96
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.96
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.41

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 21:49	Andrea E Lando	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:34	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 15:25	Marie D John	24.41
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 23:35	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-11-S-15-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392645
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 14:54 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.003	0.0005	0.005	0.93
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.93
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.93
10950	Toluene	108-88-3	0.004	0.0009	0.005	0.93
10950	Xylene (Total)	1330-20-7	N.D.	0.0009	0.005	0.93
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.85

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112441AA	09/01/2011 22:12	Andrea E Lando	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124325422	08/31/2011 23:45	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124325422	08/31/2011 23:39	Lois E Hiltz	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 16:01	Marie D John	23.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124325422	08/31/2011 23:40	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-11-S-20-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392646
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 15:28 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.004	0.0005	0.005	0.99
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.99
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene	108-88-3	0.003	0.001	0.005	0.99
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.99
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.51

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 10:43	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 07:49	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 16:37	Marie D John	25.51
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 07:50	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-11-S-25-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392647
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 15:31 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.024	0.24	48.36
10950	Ethylbenzene	100-41-4	0.056	0.048	0.24	48.36
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	48.36
10950	Toluene	108-88-3	0.057	0.048	0.24	48.36
10950	Xylene (Total)	1330-20-7	0.34	0.048	0.24	48.36

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	mg/kg		
01725	TPH-GRO N. CA soil C6-C12	n.a.	31	2.0	2.0	50.66

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 15:32	Lauren C Temple	48.36
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 07:52	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/04/2011 07:54	Marie D John	50.66
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 07:53	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-11-S-30-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392648
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 15:40 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

1130-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	8.9	0.052	0.52	103.31
10950	Ethylbenzene	100-41-4	10	0.10	0.52	103.31
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.052	0.52	103.31
10950	Toluene	108-88-3	42	1.0	5.2	1033.06
10950	Xylene (Total)	1330-20-7	49	0.10	0.52	103.31
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	4,300	390	390	9803.92

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 15:54	Lauren C Temple	103.31
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 16:17	Lauren C Temple	1033.06
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 07:55	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 23:14	Marie D John	9803.92
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 07:55	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Sample Description: MW-11-S-35-110823 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-11

LLI Sample # SW 6392649
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 15:42 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.27	0.024	0.24	48.92
10950	Ethylbenzene	100-41-4	0.29	0.049	0.24	48.92
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	48.92
10950	Toluene	108-88-3	1.3	0.049	0.24	48.92
10950	Xylene (Total)	1330-20-7	1.5	0.049	0.24	48.92
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	56	3.9	3.9	97.56

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 16:39	Lauren C Temple	48.92
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 07:58	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/04/2011 08:27	Marie D John	97.56
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 07:59	Larry E Bevins	n.a.

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Sample Description: B-10-S-5-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392650
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:25 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B10-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.96
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.96
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.96
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.96
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.96
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.67

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 11:06	Nicholas R Rossi	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:01	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 20:14	Marie D John	25.67
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:01	Larry E Bevins	n.a.

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Sample Description: MW-12-S-10-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392651
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:41 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.0005	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	0.002	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.75

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 11:28	Nicholas R Rossi	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:04	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 13:37	Marie D John	24.75
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:05	Larry E Bevins	n.a.

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Analysis Report

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Sample Description: MW-12-S-15-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392652
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:43 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 11:51	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:07	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 20:50	Marie D John	25.15
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:08	Larry E Bevins	n.a.

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Analysis Report

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Sample Description: MW-13-S-45-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392653
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 14:05 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1345

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.06
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.06
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.06
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.06
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.06
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.53

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 12:13	Nicholas R Rossi	1.06
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:11	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 21:26	Marie D John	24.53
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:12	Larry E Bevins	n.a.

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Analysis Report

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Sample Description: MW-14-S-10-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392654
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 16:25 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.44

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 12:36	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:15	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 22:02	Marie D John	24.44
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:15	Larry E Bevins	n.a.

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Analysis Report

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Sample Description: MW-14-S-15-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392655
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 16:32 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

14-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.002	0.0005	0.005	0.99
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.99
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.99
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.99
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.73

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 12:59	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:17	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 13:12	Marie D John	24.73
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:18	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-14-S-20-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392656
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 16:40 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1420

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.002	0.0005	0.005	0.98
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10950	Toluene	108-88-3	0.002	0.001	0.005	0.98
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.98
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.85

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 13:21	Nicholas R Rossi	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:20	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 13:48	Marie D John	25.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:21	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-14-S-25-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392657
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 16:44 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1425

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.023	0.23	45.87
10950	Ethylbenzene	100-41-4	0.22	0.046	0.23	45.87
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	0.23	45.87
10950	Toluene	108-88-3	0.23	0.046	0.23	45.87
10950	Xylene (Total)	1330-20-7	1.5	0.046	0.23	45.87
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	57	4.1	4.1	102.25

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	R112452AA	09/02/2011 17:02	Lauren C Temple	45.87
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:22	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:23	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/05/2011 00:36	Marie D John	102.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:23	Larry E Bevins	n.a.

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Analysis Report

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Sample Description: MW-14-S-35-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392658
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 16:55 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1435

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.066	0.0006	0.006	1.1
10950	Ethylbenzene	100-41-4	0.019	0.001	0.006	1.1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	1.1
10950	Toluene	108-88-3	0.068	0.001	0.006	1.1
10950	Xylene (Total)	1330-20-7	0.086	0.001	0.006	1.1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.9	1	1	24.98

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 13:44	Nicholas R Rossi	1.1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:46	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 14:24	Marie D John	24.98
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:47	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-13-S-5-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392659
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 13:18 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1305

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.005	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.009	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.001	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.65

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 14:06	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:49	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 10:49	Marie D John	24.65
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:49	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-15-S-5-110823 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392660
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 15:10 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1505

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.001	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.002	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.77

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 14:29	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:51	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 17:13	Marie D John	25.77
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:52	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-12-S-20-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392661
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:55 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 14:52	Nicholas R Rossi	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:54	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 15:00	Marie D John	24.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:54	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-12-S-25-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392662
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:58 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1225

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.05
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.05
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.05
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.05
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.05
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.46

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 15:14	Nicholas R Rossi	1.05
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 08:57	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 15:36	Marie D John	24.46
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 08:57	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-12-S-35-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-12

LLI Sample # SW 6392663
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 09:05 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1235

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.028	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	0.006	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.81

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 15:37	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:00	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 16:12	Marie D John	23.81
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 09:01	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-9-S-5-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392664
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 09:15 by BS Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.02
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.02
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.02
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.99

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 15:59	Nicholas R Rossi	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:03	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 16:48	Marie D John	25.99
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 09:03	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-8-S-5-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392665
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 09:29 by BS Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B8-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	26.21

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 16:22	Nicholas R Rossi	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:05	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 18:36	Marie D John	26.21
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 09:06	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-12-S-5-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392666
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 10:25 by BS Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.04
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.04
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.04
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.04
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.04
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.43

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 16:44	Nicholas R Rossi	1.04
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:08	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 19:12	Marie D John	25.43
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 09:09	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-11-S-5-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392667
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 08:00 by BS Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.85

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 17:07	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 09:21	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 09:11	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 19:48	Marie D John	25.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 09:12	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Sample Description: MW-13-S-10-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392668
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 12:00 by BS Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.94
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.94
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.94
10950	Toluene	108-88-3	N.D.	0.0009	0.005	0.94
10950	Xylene (Total)	1330-20-7	N.D.	0.0009	0.005	0.94
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.23

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 21:06	Andrea E Lando	0.94
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:29	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 20:24	Marie D John	25.23
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:34	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13-S-15-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392669
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 12:05 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.96
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.96
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.96
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.96
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.96
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.49

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 21:29	Andrea E Lando	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:33	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 21:01	Marie D John	24.49
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:30	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13-S-20-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392670
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 12:20 by BS Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.46

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 21:51	Andrea E Lando	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:38	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 21:37	Marie D John	25.46
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:39	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13-S-25-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392671
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 12:23 by BS

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.06
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.06
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.06
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.06
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.06
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 22:14	Andrea E Lando	1.06
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:42	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 22:13	Marie D John	24.06
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:43	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13-S-35-110824 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392672
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 12:30 by BS Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1335

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.93
10950	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.93
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.93
10950	Toluene	108-88-3	N.D.	0.0009	0.005	0.93
10950	Xylene (Total)	1330-20-7	N.D.	0.0009	0.005	0.93
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 23:04	Andrea E Lando	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:47	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 22:49	Marie D John	24.02
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:48	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Sample Description: MW-13-S-40-110824 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-13

LLI Sample # SW 6392673
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/24/2011 14:08 by BS Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

M1340

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.95

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 23:27	Andrea E Lando	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:51	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11247A31A	09/04/2011 23:25	Marie D John	23.95
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:52	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Sample Description: MW-15-S-10-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392674
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 08:43 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.002	0.0005	0.005	1.02
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10950	Toluene	108-88-3	0.001	0.001	0.005	1.02
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.02
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.8

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/02/2011 23:49	Andrea E Lando	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:55	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 01:22	Marie D John	24.8
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:56	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-15-S-15-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392675
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 08:46 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1515

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.002	0.0005	0.005	0.99
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.99
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene	108-88-3	0.001	0.001	0.005	0.99
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.99
GC Volatiles			mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.85

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 00:12	Andrea E Lando	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 10:59	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 02:00	Marie D John	23.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 10:59	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-15-S-20-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392676
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 08:57 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1520

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.001	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.54

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 00:34	Andrea E Lando	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:07	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 02:38	Marie D John	25.54
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:07	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-15-S-25-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392677
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 09:00 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1525

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.001	0.0005	0.005	1.08
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.08
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.08
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.08
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.08
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.25

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 00:57	Andrea E Lando	1.08
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:03	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 03:16	Marie D John	24.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:04	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: MW-15-S-30-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392678
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 09:05 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1530

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.038	0.0005	0.005	1.05
10950	Ethylbenzene	100-41-4	0.002	0.001	0.005	1.05
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.05
10950	Toluene	108-88-3	0.005	0.001	0.005	1.05
10950	Xylene (Total)	1330-20-7	0.006	0.001	0.005	1.05
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.75

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	A112451AA	09/03/2011 01:19	Andrea E Lando	1.05
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:10	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 03:54	Marie D John	24.75
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:11	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: MW-15-S-35-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-15

LLI Sample # SW 6392679
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 09:09 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M1535

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.002	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	0.002	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	26.12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 01:42	Andrea E Lando	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:04	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:15	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 04:32	Marie D John	26.12
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:15	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-8-S-10-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392680
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 12:43 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B8-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.001	0.0005	0.005	1.03
10950	Ethylbenzene	100-41-4	0.001	0.001	0.005	1.03
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.03
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.03
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.03
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	10	10	254.32
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 25.43) is 6.4 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	A112451AA	09/03/2011 03:57	Andrea E Lando	1.03
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:19	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 12:04	Marie D John	254.32
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:20	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-8-S-15-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392681
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 12:46 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B8-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.0006	0.0005	0.005	0.99
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.99
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.99
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.99
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.8

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 07:26	Holly Berry	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425425	09/01/2011 12:03	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425425	09/01/2011 11:23	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 05:10	Marie D John	25.8
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425425	09/01/2011 11:24	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-8-S-20-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392682
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 14:04 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B8-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.83

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 02:27	Andrea E Lando	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:56	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 05:47	Marie D John	24.83
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:58	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-8-S-25-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392683
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 14:08 by JB Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B8-25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.35

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	All2451AA	09/03/2011 02:50	Andrea E Lando	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:52	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 06:25	Marie D John	25.35
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:54	William C Schwebel	n.a.

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Analysis Report

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Sample Description: B-8-S-30-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # SW 6392684
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 14:14 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B8-30

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.10	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	0.066	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.046	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.26	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	3.7	1	1	24.15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	A112451AA	09/03/2011 04:20	Andrea E Lando	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:48	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 10:49	Marie D John	24.15
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:49	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-9-S-10-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392685
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:03 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B9-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.003	0.0005	0.005	1.06
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.06
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.06
10950	Toluene	108-88-3	0.005	0.001	0.005	1.06
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.06
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.34

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	A112451AA	09/03/2011 03:12	Andrea E Lando	1.06
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:43	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 07:03	Marie D John	24.34
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:44	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-9-S-15-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392686
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:06 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.003	0.0005	0.005	1.07
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.07
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.07
10950	Toluene	108-88-3	0.003	0.001	0.005	1.07
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.07
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 07:49	Holly Berry	1.07
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:39	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 08:56	Marie D John	25.15
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:40	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-9-S-20-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392687
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:17 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.006	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	0.016	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.007	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.044	0.001	0.005	1
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	4.2	4.2	105.6
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 26.40) is 4.9 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 11:57	Holly Berry	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:31	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 12:42	Marie D John	105.6
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:35	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-9-S-25-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392688
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:19 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.14	0.026	0.26	51.12
10950	Ethylbenzene	100-41-4	0.48	0.051	0.26	51.12
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.026	0.26	51.12
10950	Toluene	108-88-3	1.1	0.051	0.26	51.12
10950	Xylene (Total)	1330-20-7	2.3	0.051	0.26	51.12
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	81	81	2034.59
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 101.73) is 75 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 11:19	Holly Berry	51.12
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:25	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	2	11250A16A	09/08/2011 13:20	Marie D John	2034.59
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:26	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-9-S-30-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392689
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:21 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-30

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.23	0.024	0.24	47.17
10950	Ethylbenzene	100-41-4	2.0	0.047	0.24	47.17
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	47.17
10950	Toluene	108-88-3	4.9	0.047	0.24	47.17
10950	Xylene (Total)	1330-20-7	11	0.047	0.24	47.17
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	200	200	4955.4
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 495.54) is 230 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 11:42	Holly Berry	47.17
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:20	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	2	11250A16A	09/08/2011 13:58	Marie D John	4955.4
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:21	William C Schwebel	n.a.

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Analysis Report

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Sample Description: B-9-S-27-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-9

LLI Sample # SW 6392690
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 16:20 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B9-27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	16	0.052	0.52	104.38
10950	Ethylbenzene	100-41-4	57	1.0	5.2	1043.84
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.052	0.52	104.38
10950	Toluene	108-88-3	220	1.0	5.2	1043.84
10950	Xylene (Total)	1330-20-7	290	1.0	5.2	1043.84
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	3,100	420	420	10460.25

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 14:00	Holly Berry	104.38
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 14:23	Holly Berry	1043.84
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:15	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 14:35	Marie D John	10460.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:16	William C Schwebel	n.a.

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Analysis Report

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Sample Description: B-10-S-10-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392691
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 17:40 by JB Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1010

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.9	0.9	23.63

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 12:20	Holly Berry	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:11	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 09:33	Marie D John	23.63
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:13	William C Schwebel	n.a.

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Analysis Report

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Sample Description: B-10-S-15-110825 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392692
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 17:55 by JB Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1015

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.05
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.05
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.05
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.05
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.05
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.63

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 08:11	Holly Berry	1.05
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:06	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11250A16A	09/08/2011 10:11	Marie D John	24.63
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:07	William C Schwebel	n.a.

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Analysis Report

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Sample Description: B-10-S-20-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392693
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 18:25 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1020

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.008	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	0.002	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	0.012	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	0.012	0.001	0.005	1.01
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.85
Due to an instrument error, the holding time was not met. The sample was analyzed 1 day past the method holding time.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 08:33	Holly Berry	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 11:01	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 21:41	Marie D John	25.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 11:03	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-10-S-25-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392694
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 18:28 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1025

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.002	0.0005	0.005	1.02
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10950	Toluene	108-88-3	0.002	0.001	0.005	1.02
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.02
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.23
Due to an instrument error, the holding time was not met. The sample was analyzed 1 day past the method holding time.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 08:56	Holly Berry	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:42	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 22:19	Marie D John	25.23
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:43	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-10-S-30-110825 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-10

LLI Sample # SW 6392695
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 18:30 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1030

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.010	0.0005	0.005	1.07
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.07
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.07
10950	Toluene	108-88-3	0.006	0.001	0.005	1.07
10950	Xylene (Total)	1330-20-7	0.003	0.001	0.005	1.07
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.54
Due to an instrument error, the holding time was not met. The sample was analyzed 3 days past the method holding time.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 12:42	Holly Berry	1.07
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:01	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:38	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252B16A	09/11/2011 23:12	Marie D John	25.54
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:39	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: B-11-S-10-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392696
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:05 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

11-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.034	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	0.003	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	0.045	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	0.012	0.001	0.005	1.01
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.1	1.1	26.29

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 09:19	Holly Berry	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:32	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 12:14	Marie D John	26.29
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:33	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-11-S-15-110826 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392697
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:07 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.010	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.011	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.001	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.25

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 09:41	Holly Berry	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:28	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 12:52	Marie D John	25.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:29	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-11-S-20-110826 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392698
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:15 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.027	0.0005	0.005	0.93
10950	Ethylbenzene	100-41-4	0.003	0.0009	0.005	0.93
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.93
10950	Toluene	108-88-3	0.042	0.0009	0.005	0.93
10950	Xylene (Total)	1330-20-7	0.016	0.0009	0.005	0.93
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.65

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112491AA	09/06/2011 14:27	Chelsea B Eastep	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:23	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 13:30	Marie D John	24.65
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:24	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-11-S-25-110826 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392699
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:18 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	16	0.099	0.99	197.63
10950	Ethylbenzene	100-41-4	22	0.20	0.99	197.63
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.099	0.99	197.63
10950	Toluene	108-88-3	120	2.0	9.9	1976.28
10950	Xylene (Total)	1330-20-7	110	0.20	0.99	197.63
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1,400	390	390	9671.18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 13:13	Holly Berry	197.63
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112471AA	09/04/2011 13:13	Holly Berry	1976.28
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:17	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 16:01	Marie D John	9671.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:19	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-8-W-28-110825 NA Water
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-8

LLI Sample # WW 6392700
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/25/2011 14:43 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B8-28

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	24,000	250	500	500
10943	Ethylbenzene	100-41-4	1,300	25	50	50
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	25	50	50
10943	Toluene	108-88-3	1,500	25	50	50
10943	Xylene (Total)	1330-20-7	2,500	25	50	50
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	64,000	2,500	5,000	50

General Sample Comments

State of California Lab Certification No. 2501
 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P112441AA	09/02/2011 03:45	Kevin A Sposito	50
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P112441AA	09/02/2011 04:13	Kevin A Sposito	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P112441AA	09/02/2011 03:45	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P112441AA	09/02/2011 04:13	Kevin A Sposito	500
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11245B20A	09/03/2011 00:11	Catherine J Schwarz	50
01146	GC VOA Water Prep	SW-846 5030B	1	11245B20A	09/03/2011 00:11	Catherine J Schwarz	50

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-11-S-27-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392701
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:27 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1127

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	120	0.46	4.6	917.43
10950	Ethylbenzene	100-41-4	140	0.92	4.6	917.43
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.46	4.6	917.43
10950	Toluene	108-88-3	880	9.2	46	9174.31
10950	Xylene (Total)	1330-20-7	680	0.92	4.6	917.43
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	7,600	410	410	10341.26

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 14:47	Holly Berry	917.43
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 15:10	Holly Berry	9174.31
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 10:03	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 16:39	Marie D John	10341.26
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:04	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-11-S-30-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-11

LLI Sample # SW 6392702
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 09:25 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1130

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.98	0.027	0.27	54.82
10950	Ethylbenzene	100-41-4	2.0	0.055	0.27	54.82
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	0.27	54.82
10950	Toluene	108-88-3	9.4	0.055	0.27	54.82
10950	Xylene (Total)	1330-20-7	10	0.055	0.27	54.82
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	79	79	1970.44
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 197.04) is 74 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 12:05	Holly Berry	54.82
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:59	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 17:17	Marie D John	1970.44
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:00	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Sample Description: B-12-S-10-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392703
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 10:45 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

B1210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.006	0.0005	0.005	1.01
10950	Ethylbenzene	100-41-4	0.002	0.001	0.005	1.01
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10950	Toluene	108-88-3	0.010	0.001	0.005	1.01
10950	Xylene (Total)	1330-20-7	0.01	0.001	0.005	1.01
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	24.11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 13:27	Holly Berry	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:54	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 14:07	Marie D John	24.11
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:13	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: B-12-S-15-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392704
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 10:48 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.007	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	0.002	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.005	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.002	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.48

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112461AA	09/03/2011 13:05	Holly Berry	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:50	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 14:45	Marie D John	25.48
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:11	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-12-S-20-110826 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392705
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 11:00 by JB Chevron c/o CRA
Suite 107
Submitted: 08/31/2011 09:30 10969 Trade Center Drive
Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	6.1	0.11	1.1	212.77
10950	Ethylbenzene	100-41-4	31	0.21	1.1	212.77
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.11	1.1	212.77
10950	Toluene	108-88-3	5.5	0.21	1.1	212.77
10950	Xylene (Total)	1330-20-7	100	0.21	1.1	212.77
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	440	390	390	9671.18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 13:37	Holly Berry	212.77
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:43	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 17:54	Marie D John	9671.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:10	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-12-S-26-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392706
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 11:16 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1226

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	0.13	0.024	0.24	48.83
10950	Ethylbenzene	100-41-4	0.11	0.049	0.24	48.83
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	48.83
10950	Toluene	108-88-3	0.61	0.049	0.24	48.83
10950	Xylene (Total)	1330-20-7	0.53	0.049	0.24	48.83

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	mg/kg
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	40
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis (DF 100.1) is 39 mg/kg.				

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 12:28	Holly Berry	48.83
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:03	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:46	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 18:33	Marie D John	1001
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:09	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: B-12-S-30-110826 NA Soil
Facility# 97127 **MTI#** 631656 CRAW
Grant Line & I 580-Tracy T0600102298 B-12

LLI Sample # SW 6392707
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/26/2011 11:18 by JB Chevron c/o CRA
 Suite 107
 Submitted: 08/31/2011 09:30 10969 Trade Center Drive
 Reported: 09/21/2011 16:04 Rancho Cordova CA 95670

B1230

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10950	Benzene	71-43-2	2.0	0.027	0.27	53.76
10950	Ethylbenzene	100-41-4	0.93	0.054	0.27	53.76
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	0.27	53.76
10950	Toluene	108-88-3	7.1	0.054	0.27	53.76
10950	Xylene (Total)	1330-20-7	4.7	0.054	0.27	53.76
GC Volatiles SW-846 8015B modified						
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	79	79	1962.71
The initial analysis of the sample is over diluted. A more concentrated sample analysis was performed outside of the method required holding time. Since the hold time had expired prior to the more concentrated analysis all original results are reported. The GRO result from the more concentrated analysis(DF 98.14) is 69 mg/kg.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	Q112461AA	09/03/2011 12:51	Holly Berry	53.76
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:34	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11252A16A	09/09/2011 19:10	Marie D John	1962.71
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:07	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-14-S-5-1108223 NA Soil
Facility# 97127 MTI# 631656 CRAW
Grant Line & I 580-Tracy T0600102298 MW-14

LLI Sample # SW 6392708
LLI Group # 1264328
Account # 11997

Project Name: 97127

Collected: 08/23/2011 14:06 by JB

Chevron c/o CRA

Suite 107

Submitted: 08/31/2011 09:30

10969 Trade Center Drive

Reported: 09/21/2011 16:04

Rancho Cordova CA 95670

M14-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene	71-43-2	0.008	0.0005	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	0.012	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.003	0.001	0.005	1
GC Volatiles						
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	1.0	25.51

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B112451AA	09/02/2011 17:30	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201124425424	09/01/2011 12:02	William C Schwebel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201124425424	09/01/2011 09:38	William C Schwebel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11245A31A	09/03/2011 13:01	Marie D John	25.51
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201124425424	09/01/2011 10:06	William C Schwebel	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A112451AA	Sample number(s): 6392668-6392680, 6392682-6392685								
Benzene	N.D.	0.0005	0.005	mg/kg	102	100	80-120	2	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	104	102	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	89	90	74-121	2	30
Toluene	N.D.	0.001	0.005	mg/kg	104	101	80-120	3	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	103	101	80-120	2	30
Batch number: B112441AA	Sample number(s): 6392627-6392629, 6392631-6392634, 6392639-6392645								
Benzene	N.D.	0.0005	0.005	mg/kg	106	102	80-120	4	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	104	101	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	108	101	74-121	7	30
Toluene	N.D.	0.001	0.005	mg/kg	105	102	80-120	2	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	104	102	80-120	2	30
Batch number: B112451AA	Sample number(s): 6392636-6392646, 6392650-6392656, 6392658-6392667, 6392708								
Benzene	N.D.	0.0005	0.005	mg/kg	105	104	80-120	1	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	105	104	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	112	96	74-121	15	30
Toluene	N.D.	0.001	0.005	mg/kg	104	103	80-120	1	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	106	103	80-120	2	30
Batch number: B112461AA	Sample number(s): 6392681, 6392686-6392687, 6392691-6392697, 6392703-6392704								
Benzene	N.D.	0.0005	0.005	mg/kg	104	101	80-120	3	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	101	98	80-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	104	108	74-121	4	30
Toluene	N.D.	0.001	0.005	mg/kg	102	99	80-120	3	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	102	99	80-120	4	30
Batch number: B112491AA	Sample number(s): 6392698								
Benzene	N.D.	0.0005	0.005	mg/kg	105	98	80-120	6	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	102	95	80-120	8	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	106	102	74-121	3	30
Toluene	N.D.	0.001	0.005	mg/kg	102	95	80-120	7	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	102	95	80-120	7	30
Batch number: P112441AA	Sample number(s): 6392700								
Benzene	N.D.	0.5	1	ug/l	95		79-120		
Ethylbenzene	N.D.	0.5	1	ug/l	92		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	101		76-120		
Toluene	N.D.	0.5	1	ug/l	94		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	92		80-120		
Batch number: Q112461AA	Sample number(s): 6392688-6392690, 6392699, 6392701-6392702, 6392705-6392707								
Benzene	N.D.	0.025	0.25	mg/kg	92	93	80-120	1	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	95	94	74-121	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Toluene	N.D.	0.050	0.25	mg/kg	112	105	80-120	6	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	104	103	80-120	1	30
Batch number: Q112471AA	Sample number(s): 6392699								
Toluene	N.D.	0.050	0.25	mg/kg	106	103	80-120	3	30
Batch number: R112441AA	Sample number(s): 6392630, 6392635, 6392638								
Benzene	N.D.	0.025	0.25	mg/kg	100	100	80-120	1	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	100	100	80-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	94	96	74-121	3	30
Toluene	N.D.	0.050	0.25	mg/kg	105	103	80-120	2	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	101	101	80-120	0	30
Batch number: R112452AA	Sample number(s): 6392637, 6392647-6392649, 6392657								
Benzene	N.D.	0.025	0.25	mg/kg	104	102	80-120	1	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	103	103	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	100	97	74-121	3	30
Toluene	N.D.	0.050	0.25	mg/kg	105	105	80-120	0	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	104	103	80-120	1	30
Batch number: 11245A16B	Sample number(s): 6392627-6392640								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	93	96	67-119	3	30
Batch number: 11245A31A	Sample number(s): 6392641-6392654, 6392659-6392660, 6392708								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	97	93	67-119	4	30
Batch number: 11245B20A	Sample number(s): 6392700								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	100	100	75-135	0	30
Batch number: 11247A31A	Sample number(s): 6392655-6392658, 6392661-6392673								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	84	99	67-119	16	30
Batch number: 11250A16A	Sample number(s): 6392674-6392692								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	98	92	67-119	7	30
Batch number: 11252A16A	Sample number(s): 6392693-6392694, 6392696-6392699, 6392701-6392707								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	94	97	67-119	4	30
Batch number: 11252B16A	Sample number(s): 6392695								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	94	95	67-119	2	30

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: P112441AA	Sample number(s): 6392700 UNSPK: P392262								
Benzene	12*	60*	80-126	34*	30				
Ethylbenzene	73	85	71-134	11	30				
Methyl Tertiary Butyl Ether	93	98	72-126	4	30				
Toluene	-22*	43*	80-125	42*	30				
Xylene (Total)	48*	72*	79-125	20	30				

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs by 8260B - Solid

Batch number: A112451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392668	98	101	104	95
6392669	97	98	107	91
6392670	96	97	105	95
6392671	97	98	105	94
6392672	98	100	104	94
6392673	98	96	105	94
6392674	98	98	106	92
6392675	98	99	104	93
6392676	98	100	104	94
6392677	98	97	106	93
6392678	98	98	104	95
6392679	98	99	105	93
6392680	98	97	101	100
6392682	99	99	105	93
6392683	100	102	104	94
6392684	95	95	106	102
6392685	98	98	105	95
Blank	97	99	105	97
LCS	97	98	106	101
LCSD	97	99	107	101
<hr/>				
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid

Batch number: B112441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392627	102	97	101	92
6392628	104	101	99	93
6392629	103	97	99	91
6392631	98	91	100	104
6392632	100	93	101	94
6392633	100	100	102	94
6392634	102	97	102	94
6392639	98	92	101	102
6392640	101	95	103	88
6392641	101	96	104	88
6392642	101	91	105	86
6392643	102	96	104	87
6392644	104	100	100	90

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

6392645	102	99	101	95
Blank	104	106	98	94
LCS	102	102	102	102
LCSD	100	97	104	101

Limits: 71-114 70-109 70-123 70-111

Analysis Name: VOCs by 8260B - Solid

Batch number: B112451AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

6392636	104	94	96	104
6392646	101	98	99	94
6392650	103	99	100	94
6392651	103	98	101	88
6392652	101	100	98	93
6392653	104	102	97	93
6392654	105	103	97	94
6392655	103	98	98	93
6392656	103	98	99	93
6392658	99	94	99	98
6392659	103	100	101	89
6392660	105	99	99	91
6392661	106	102	98	92
6392662	106	98	98	91
6392663	100	97	100	93
6392664	106	99	103	84
6392665	107	101	99	89
6392666	107	100	100	89
6392667	108	101	100	89
6392708	103	96	103	89
Blank	102	101	99	94
LCS	102	103	101	103
LCSD	99	95	103	100

Limits: 71-114 70-109 70-123 70-111

Analysis Name: VOCs by 8260B - Solid

Batch number: B112461AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

6392681	102	99	98	93
6392686	103	101	98	94
6392687	103	101	97	103
6392691	104	102	97	94
6392692	101	97	98	92
6392693	103	98	97	97
6392694	102	98	98	94
6392695	103	101	97	93
6392696	103	97	96	102
6392697	101	97	98	94
6392703	102	97	97	99
6392704	100	96	99	98
Blank	102	102	99	95
LCS	101	100	102	102
LCSD	102	102	101	102

Limits: 71-114 70-109 70-123 70-111

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

 Analysis Name: VOCs by 8260B - Solid
 Batch number: B112491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392698	97	93	100	97
Blank	105	104	96	94
LCS	101	98	100	103
LCSD	101	97	99	103
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: P112441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392700	96	97	99	97
Blank	96	99	99	98
LCS	97	100	99	97
MS	96	100	98	96
MSD	96	99	99	96
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: VOCs by 8260B - Solid
 Batch number: Q112461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392688	72	73	86	87
6392689	75	78	89	90
6392690	77	80	88	90
6392699	65*	67*	90	93
6392701	74	71	90	88
6392702	72	75	85	86
6392705	66*	70	103	102
6392706	72	74	85	85
6392707	73	75	86	84
Blank	88	90	102	98
LCS	87	86	100	97
LCSD	86	87	100	97
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: 8260 Ext. Soil Master w/GRO
 Batch number: Q112471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	87	91	100	98
LCS	87	91	100	97
LCSD	86	86	98	96
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: VOCs by 8260B - Solid
 Batch number: R112441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
--	----------------------	-----------------------	------------	----------------------

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

6392630	92	91	90	93
6392635	88	89	95	99
6392638	85	84	87	87
Blank	88	87	86	84
LCS	94	92	96	95
LCSD	95	95	95	96

Limits: 71-114 70-109 70-123 70-111

Analysis Name: VOCs by 8260B - Solid

Batch number: R112452AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6392637	84	82	93	102
6392647	84	80	81	83
6392648	83	82	88	91
6392649	87	85	85	86
6392657	90	88	89	92
Blank	94	91	91	88
LCS	99	94	99	98
LCSD	97	92	96	97

Limits: 71-114 70-109 70-123 70-111

Analysis Name: TPH-GRO N. CA soil C6-C12

Batch number: 11245A16B

Trifluorotoluene-F

6392627	86
6392628	82
6392629	83
6392630	90
6392631	77
6392632	80
6392633	77
6392634	80
6392635	247*
6392636	78
6392637	520**
6392638	106
6392639	74
6392640	79
Blank	90
LCS	84
LCSD	88

Limits: 61-122

Analysis Name: TPH-GRO N. CA soil C6-C12

Batch number: 11245A31A

Trifluorotoluene-F

6392641	101
6392642	99
6392643	100
6392644	107
6392645	105

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

6392646	102
6392647	115
6392648	2532*
6392649	132*
6392650	102
6392651	99
6392652	104
6392653	90
6392654	102
6392659	94
6392660	108
6392708	101
Blank	104
LCS	111
LCSD	105

Limits: 61-122

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11245B20A
Trifluorotoluene-F

6392700	109
Blank	98
LCS	133
LCSD	131

Limits: 63-135

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 11247A31A
Trifluorotoluene-F

6392655	86
6392656	93
6392657	101
6392658	89
6392661	86
6392662	94
6392663	89
6392664	94
6392665	88
6392666	88
6392667	91
6392668	87
6392669	90
6392670	85
6392671	86
6392672	83
6392673	87
Blank	101
LCS	97
LCSD	106

Limits: 61-122

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 11250A16A

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

Trifluorotoluene-F

6392674	77
6392675	76
6392676	74
6392677	76
6392678	72
6392679	76
6392680	101
6392681	75
6392682	79
6392683	76
6392684	66
6392685	78
6392686	77
6392687	62
6392688	91
6392689	150*
6392690	887*
6392691	76
6392692	79
Blank	83
LCS	90
LCSD	84

Limits: 61-122

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 11252A16A

Trifluorotoluene-F

6392693	78
6392694	76
6392696	71
6392697	69
6392698	67
6392699	703*
6392701	2763*
6392702	93
6392703	73
6392704	75
6392705	170*
6392706	69
6392707	78
Blank	81
LCS	81
LCSD	84

Limits: 61-122

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 11252B16A

Trifluorotoluene-F

6392695	81
Blank	82
LCS	83

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/21/11 at 04:04 PM

Group Number: 1264328

Surrogate Quality Control

LCSD 83

Limits: 61-122

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



Acct. #: 11997

For Lancaster Laboratories use only
Sample #: 6392627-708

1 of 8 252702
SCR#:

MT# 631656

G# 1264328

Facility #: Chevron 9-7127
 Site Address: Grant Line Rd & 1580, Tracy CA
 Chevron PM: ~~Rob Sp~~ Rob Sp Lead Consultant: CORA
 Consultant/Office: CRA Rancho Cordova
 Consultant Prj. Mgr.: James Kiernan
 Consultant Phone #: 916 889-8900 Fax #: 916 889-8999
 Sampler: John Bostick
 Service Order #: Non SAR:

Analyses Requested

Preservation Codes	
BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/>	TPH 8015 MOD GRO <input type="checkbox"/>
TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan <input type="checkbox"/>
Oxygenates <input type="checkbox"/>	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.
MW-9-10	S		9.5	110822	1455	✓
MW-9-15	S		14.5	↓	1457	✓
MW-9-20	S		19.5		1508	✓
MW-9-25	S		24.5		1518	✓
MW-9-30	S		29.5		1600	✓
MW-9-35	S		34.5		1604	✓
MW-10-10	S		9.5	110823	1110	✓
MW-10-15	S		14.5	↓	1111	✓
MW-10-20	S		19.5		1126	✓
MW-10-25	S		24.5		1130	✓
MW-10-27	S		26.5		1131	✓
MW-10-30	S		29.5		1200	✓
MW-10-35	S		34.5		1203	✓

Grab	Composite	Total Number of Containers	BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/>	TPH 8015 MOD GRO <input type="checkbox"/>	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan <input type="checkbox"/>	Oxygenates <input type="checkbox"/>	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				
		1	X	X				

Comments / Remarks
 please send results to
 JKiernan@cra-world.com

Turnaround Time Requested (TAT) (please circle)

STD. TAT	72 hour	48 hour
24 hour	4 day	5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>8-25-11</u>	Time: <u>1030</u>	Received by:	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>8-30-11</u>	Time: <u>1400</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: UPS FedEx Other _____	Temperature Upon Receipt <u>12.4S</u> °C		Received by: <u>[Signature]</u>	Date: <u>8/31/11</u>	Time: <u>0930</u>
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only 5 of 8 252712
 Acct. #: 11997 Sample #: 6392627-708 SCR#: _____

MT 631656

G# 1264328

Facility #: Chevron 9-7127
 Site Address: Grant Line Rd & 1580 Tracy CA
 Chevron PM: Rob Speer Lead Consultant: CRA
 Consultant/Office: CRA Rancho Cordova
 Consultant Prj. Mgr.: James Kiernan
 Consultant Phone #: 916 889 8900 Fax #: 916 889 8999
 Sampler: John B
 Service Order #: _____ Non SAR: _____

Analyses Requested									
Preservation Codes									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.
MW-15-10	S		9.5	110825	0843	y
MW-15-15	S		14.5		0846	y
MW-15-20	S		19.5		0857	
MW-15-25	S		24.5		0900	
MW-15-30	S		29.5		0905	
MW-15-35	S		34.5		0909	
B-8-10	S		9.5		1243	
B-8-15	S		14.5		1246	
B-8-20	S		19.5		1404	
B-8-25	S		24.5		1408	
B-8-30	S		29.5		1414	
B-9-10	S		9.5		1603	
B-9-15	S		14.5		1606	

Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>8/30/11</u>	Time: <u>0800</u>	Received by:	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>8-30-11</u>	Time: <u>1400</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx Other _____	Temperature Upon Receipt: <u>12-4.5</u> °C		Received by: <u>[Signature]</u>	Date: <u>8/31/11</u>	Time: <u>0930</u>
			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only **6 of 8 252704**
 Acct. #: 11997 Sample #: 6392627-708 SCR#:

MT 431656

G# 1264328

Facility #: 9-7127
 Site Address: Grant Line Rd & 1580 Tracy CA
 Chevron PM: Rob Speer Lead Consultant: CRA
 Consultant/Office: CRA Rancho Cordova
 Consultant Prj. Mgr.: James Kiernan
 Consultant Phone #: 916 889 8700 Fax #: 916 889-8999
 Sampler: John B
 Service Order #: _____ Non SAR:

Analyses Requested											
Preservation Codes											
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021</p> <p><input type="checkbox"/> TPH 8015 MOD GRO</p> <p><input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup</p> <p><input type="checkbox"/> 8260 full scan</p> <p><input type="checkbox"/> Oxygenates</p> <p><input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421</p> </div> <div style="width: 50%;"> <p>Preservative Codes</p> <p>H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ O = Other</p> <p><input type="checkbox"/> J value reporting needed</p> <p><input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds</p> <p>8021 MTBE Confirmation</p> <p><input type="checkbox"/> Confirm highest hit by 8260</p> <p><input type="checkbox"/> Confirm all hits by 8260</p> <p><input type="checkbox"/> Run ___ oxy's on highest hit</p> <p><input type="checkbox"/> Run ___ oxy's on all hits</p> </div> </div>											

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
B-9-20	S		19.5	110825	1617	4			1	X	X					
B-9-25	S		24.5		1619	4				X	X					
B-9-20	S		29.5		1621	4				X	X					
B-9-27	S		26.5		1620	4				X	X					
B-10-10	S		9.5		1740	4				X	X					
B-10-15	S		14.5		1756	4				X	X					
B-10-20	S		19.5		1825	4				X	X					
B-10-25	S		24.5		1828	4				X	X					
B-10-30	S		29.5		1830	4				X	X					
B-11-10	S		9.5	110826	0905	4				X	X					
B-11-15	S		14.5		0907	4				X	X					
B-11-20	S		19.5		0915	4				X	X					
B-11-25	S		24.5		0918	4				X	X					

Comments / Remarks
~~_____~~
~~_____~~

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>8/30/11</u>	Time: <u>0800</u>	Received by:	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>8-30-11</u>	Time: <u>1400</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: <u>FedEx</u>	UPS	Other:	Received by: <u>[Signature]</u>	Date: <u>8/31/11</u>	Time: <u>0930</u>
Temperature Upon Receipt: <u>1.245</u> °C			Custody Seals Intact? <u>(Yes)</u> No		

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only 8 of 8
 Acct. #: 11997 Sample #: 6392627-708 SCR#: _____

MT# 631656

G# 1264328

Facility #: 9-7127
 Site Address: Grant Line Rd + 1580 Tracy, CA
 Chevron PM: Rob Speer Lead Consultant: CRA
 Consultant/Office: CRA Rancho Cordova
 Consultant Prj. Mgr.: James Kirnan
 Consultant Phone #: 916-888-8900 Fax #: 916-889-8999
 Sampler: B. Summerschlag / J. Bostick
 Service Order #: _____ Non SAR:

Analyses Requested										
Preservation Codes										
Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>	Total Number of Containers	<input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021	<input type="checkbox"/> TPH 8015 MOD GRO	<input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>	

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>	Total Number of Containers	<input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021	<input type="checkbox"/> TPH 8015 MOD GRO	<input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>
B-11-27	110826	0927			S			1	X	X				
B-11-30	↓	0925			S			1	X	X				
B-12-10	↓	1045			S			1	X	X				
B-12-15	↓	1048			S			1	X	X				
B-12-20	↓	1100			S			1	X	X				
B-12-26	↓	1116			S			1	X	X				
B-12-30	↓	1118			S			1	X	X				

Comments / Remarks
 Analyze MW-14-5 collected at 1400 on 8/23/11 for BTEX/MTBE 8260 and GRO 8015 per JK.
 MW 8/31/11

Turnaround Time Requested (TAT) (please circle)

STD. TAT	72 hour	48 hour
24 hour	4 day	5 day

Data Package Options (please circle if required)

QC Summary Type I — Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>8/30/11</u>	Time: <u>0900</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: <u>[Signature]</u>	Date: <u>8-30-11</u>	Time: <u>1400</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other _____			Received by: <u>[Signature]</u>	Date: <u>8/31/11</u>	Time: <u>0930</u>
Temperature Upon Receipt: <u>12.45</u> °C			Custody Seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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