



**CONESTOGA-ROVERS
& ASSOCIATES**

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October 28, 2009

Reference No. 631916

Mr. Jerry Wickham
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502--6577

Re: Third Quarter 2009 Groundwater Monitoring Report
Former Signal Oil Marine Storage and Distribution Facility
(Former Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
SLIC Case RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2009 Groundwater Monitoring Report* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The current monitoring and sampling program consists of gauging and sampling groundwater from wells MW-1 through MW-5 onsite and collecting a surface water sample (CS-2) from the adjacent Alameda Canal on a quarterly basis. Site background information, summary of previous investigation, the results of the current monitoring and sampling activities, CRA's conclusions and recommendations, and anticipated future activities are discussed below.

SITE BACKGROUND

Site Description: The approximately 3.5-acre site is located on the northeast side of Blanding Avenue between Oak and Park Streets in Alameda, California (Figures 1 and 2). Land use in the site vicinity is primarily commercial and industrial. The Alameda Canal and a marina are located adjacent to the northeast side of the site. The site is currently occupied by three large commercial buildings, which are used for office, retail, and storage space, and identified as Park Street Landing at 2307-2337 Blanding Avenue.

Site History: A Sanborn map dated 1897 showed the site as occupied by several residential structures and outbuildings; the southeast portion of the site was shown as occupied by a laundry facility and a blacksmith. From at least 1930 until approximately 1961, the northwestern portion of the site was occupied by a petroleum bulk plant operated by Signal Oil & Gas Company. Former bulk plant facilities consisted of one large and seven smaller gasoline aboveground storage tanks (ASTs) within concrete secondary containment, underground piping, an office building, a loading rack, and a small structure containing gasoline pumps

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(Figure 2). The northeast portion of the facility was shown as occupied by a structure identified as an auto garage and also used for paint storage on Sanborn maps dated between 1932 and 1950. A rail spur was shown to service the facilities on Blanding Avenue. The central portion of the site was shown as occupied by two structures identified as wholesale tires and a can warehouse. An additional larger structure was shown in the central portion of the site that was identified as vacant on the 1948 Sanborn map and as a ladder factory on the 1950 Sanborn map. Several structures appeared present in the southeast portion of the site in the 1939 aerial photograph. However, only one or two small sheds were shown in this area on the 1948 and 1950 Sanborn maps. In the 1958 aerial photograph, the ladder factory structure no longer appeared present and the southeast portion of the site appeared vacant and used for parking. Between 1957 and 1963, the buildings at the site were reportedly removed; it is assumed that the ASTs and piping were also removed at this time. In the 1965 aerial photograph, all the bulk plant facilities appear to have been removed and the majority of the site appears occupied by a construction materials yard with several small structures. Several additional structures also appear present in the southeast portion of the site. From 1973 to 1983, the northwestern portion of the site reportedly was used as a construction yard and for boat repair activities; and the southeastern portion was occupied by a restaurant, paved parking area, and a possible automobile sales lot. In 1987, the site was redeveloped with the current configuration.

To date, 5 groundwater monitoring wells, 6 vapor wells, and 7 sub-slab vapor points have been installed at the site. Additionally, 28 soil borings have been advanced and 3 surface soil samples collected at the site. Quarterly monitoring and sampling initiated in 2001 is ongoing. A summary of previous environmental investigations conducted to date at the site is presented as Attachment A. Well construction information is presented in Table 1.

Site Geology and Hydrogeology: The soils encountered beneath the site generally consist of silty sand and clayey sand from just beneath grade to approximately 5 and 9 feet below grade (fbg). Fill consisting of black sand and concrete fragments has been reported in several borings at shallow depths. A 4- to 5-foot-thick layer of clay with some sand underlies the silty sand and clayey sand. Below the clay is silty sand and sandy silt to the maximum depth of explored of approximately 20.5 fbg. Groundwater is encountered in site borings at approximately 14.5 to 15 fbg within the silty sand and sandy silt and subsequently rises in the borings/wells to approximately 7 to 10 fbg. Historical depth to water and groundwater elevation data is included in Gettler-Ryan's (G-R's) quarterly monitoring and sampling report (Attachment B).

RESULTS OF THIRD QUARTER 2009 MONITORING AND SAMPLING EVENT

Groundwater Monitoring and Sampling: On July 3, 2009, G-R gauged and sampled monitoring wells MW-1 through MW-5, and collected grab surface water samples from canal sampling location CS-2 (Figure 2). This was the initial sampling event for newly installed wells MW-2



through MW-5. G-R's August 25, 2009 *Groundwater Monitoring and Sampling Report* is included as Attachment B. Third quarter monitoring and sampling results are discussed below.

Depth to groundwater in site wells ranged from 3.91 fbg in well MW-2 to 8.08 fbg in well MW-1. Groundwater flow direction was calculated towards the north-northeast at a gradient of 0.008 to 0.02 (Figure 1 of Attachment B).

Groundwater samples collected quarterly from the site wells are analyzed for total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene and xylenes (BTEX). In addition, samples from well MW-1 and surface water sampling point CS-2 are analyzed for methyl tertiary butyl ether (MTBE), and samples from wells MW-2 through MW-5 were analyzed for California Assessment Manual metals (CAM 17).

Total Petroleum Hydrocarbons as Diesel:

- TPHd was detected in wells MW-1, MW-3 and MW-5 at concentrations of 1,300 micrograms per liter ($\mu\text{g/L}$), 170 $\mu\text{g/L}$ and 110 $\mu\text{g/L}$, respectively (Figure 3)
- No TPHd was detected in wells MW-2 and MW-4, or at canal sampling location CS-2
- The TPHd concentration observed this quarter in MW-1 is within historical ranges and is consistent with seasonal fluctuations (Table 1 of Attachment B)

Total Petroleum Hydrocarbons as Gasoline:

- TPHg was also detected in wells MW-1, MW-3 and MW-5 at concentrations of 51 $\mu\text{g/L}$, 310 $\mu\text{g/L}$ and 930 $\mu\text{g/L}$, respectively (Figure 4)
- No TPHg was detected in wells MW-2 and MW-4, or at canal sampling location CS-2
- The TPHg concentration observed this quarter in MW-1 is within historical ranges and have generally decreased overtime (Table 1 of Attachment B)

Benzene, Toluene, Ethylbenzene and Xylenes:

- Benzene was detected in only wells MW-3 and MW-5 at concentrations of 1 $\mu\text{g/L}$ and 33 $\mu\text{g/L}$, respectively (Figure 5)
- Toluene and xylenes were only detected in well MW-5 at concentrations of 2 $\mu\text{g/L}$ and 3 $\mu\text{g/L}$, and ethylbenzene was detected in only wells MW-3 and MW-5 at 2 $\mu\text{g/L}$ and 0.6 $\mu\text{g/L}$
- No BTEX was detected in wells MW-1, MW-2 and MW-4, or at canal sampling location CS-2



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Methyl tertiary butyl ether:

- No MTBE was detected in samples from well MW-1 or at the canal sampling location CS-2

Metals:

- No CAM 17 metals were detected above environmental screening levels (ESLs), with the exception of copper in well MW-3 and nickel in well MW-2
- The ESL for copper (3.1 µg/L) was slightly exceeded in well MW-3 at a concentration of 3.3 µg/L
- The ESL for nickel (8.2 µg/L) was slightly exceeded in well MW-2 at a concentration of 10.6 µg/L
- Metal analytical results are summarized in Table 2 of Attachment B.

CONCLUSIONS AND RECOMMENDATION

Results of the third quarter 2009 sampling event indicate that the dissolved hydrocarbon concentrations in well MW-1 are generally stable. Based on the analytical data from the recently installed wells MW-2 through MW-5, the dissolved plume is localized north of the former ASTs in the area of the former fuel pumps (Figures 3 through 5). Further, the majority of current and past analytical results of grab samples collected from canal sampling location CS-2 indicate no current impact from the site to Alameda Canal.

The primary constituent of concern is TPHd; however, TPHg concentrations were also observed in wells MW-3 and MW-5. Given the site history, the copper and nickel concentrations detected slightly above ESLs are unlikely to have come from former Signal Oil's fueling operations at the site. As such, CRA recommends that metals analysis be removed from the suite of analysis for the groundwater and canal grab samples collected during future events at the site. CRA recommends continued quarterly monitoring and sampling of wells MW-1 through MW-5 and surface water sampling location CS-2 to determine seasonal hydrocarbon concentration trends in groundwater beneath the site and to monitor the potential impact from the site to Alameda Canal.

ANTICIPATED FUTURE ACTIVITIES

Quarterly Groundwater and Surface Water Sampling: G-R will gauge and sample wells MW-1 through MW-5 and surface water sampling location CS-2. Upon completion of this event, CRA will prepare a summary of the site conditions and monitoring results.



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Sub-Slab Vapor Point Reinstallation and Vapor Sampling: Due to leaks observed during the initial sub-slab vapor sampling event in vapor points VP-9 through VP-13, CRA will reinstall the vapor points and collect vapor samples from each reinstalled vapor point. CRA will also sample vapor wells VP-1 through VP-6 to confirm the initial vapor sampling results. A summary report will be prepared and submitted to ACEH by December 2, 2009.

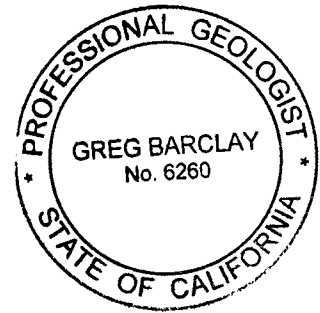
We appreciate the opportunity to work with you on this project. Please contact Mr. Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260

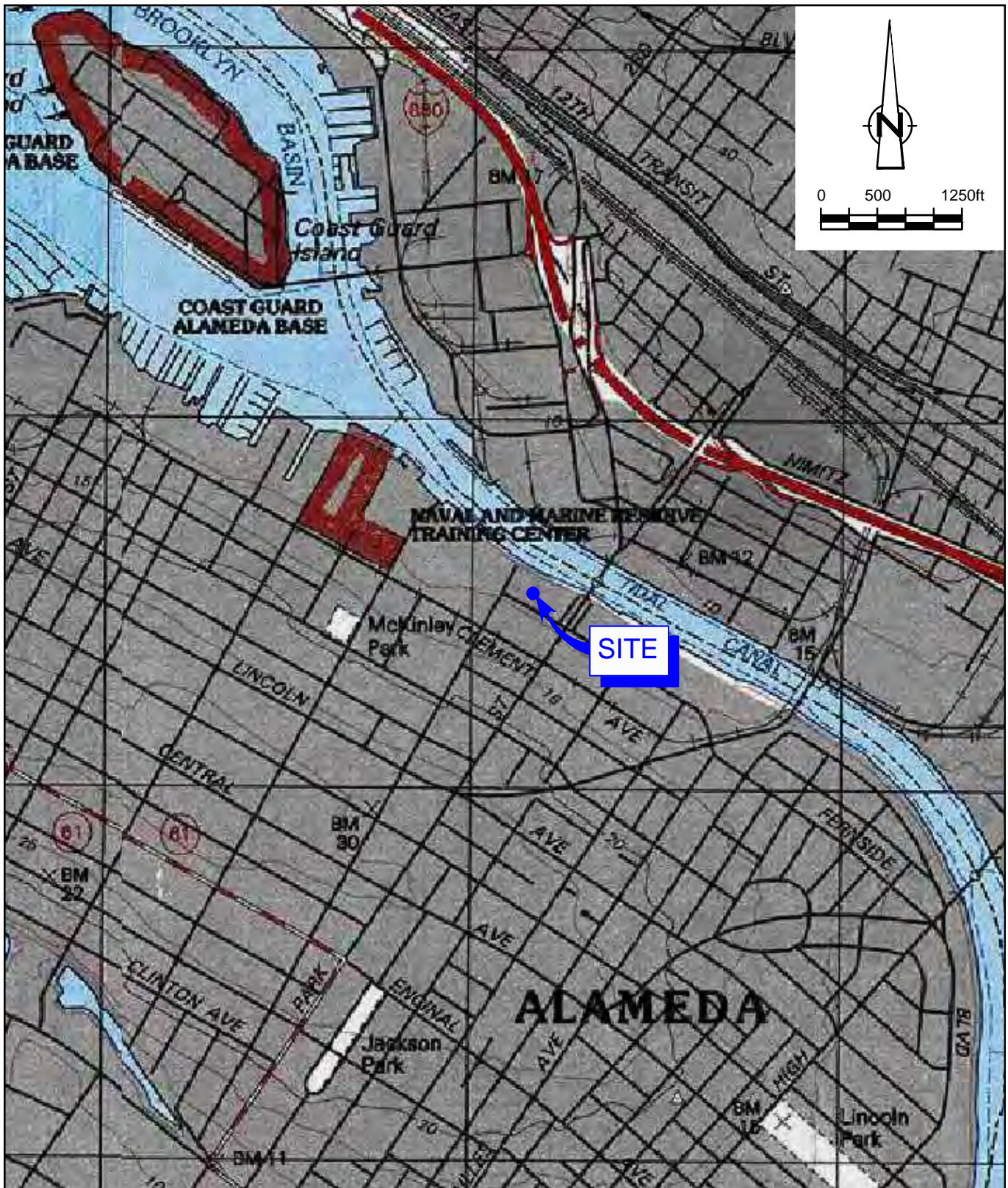


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| Figure 1 | Vicinity Map |
| Figure 2 | Site Plan |
| Figure 3 | TPHd Concentrations in Groundwater - July 3, 2009 |
| Figure 4 | TPHg Concentrations in Groundwater - July 3, 2009 |
| Figure 5 | Benzene Concentrations in Groundwater - July 3, 2009 |
| Table 1 | Well Construction Specifications |
| Attachment A | Summary of Previous Environmental Work |
| Attachment B | G-R Groundwater Monitoring and Sampling Report |

cc: Mike Bauer, Chevron Environmental Management Company (*electronic only*)
Julie Beck Ball
Peter Reinhold Beck
Monroe Wingate
Tom Foley, Gallagher & Miersch

FIGURES

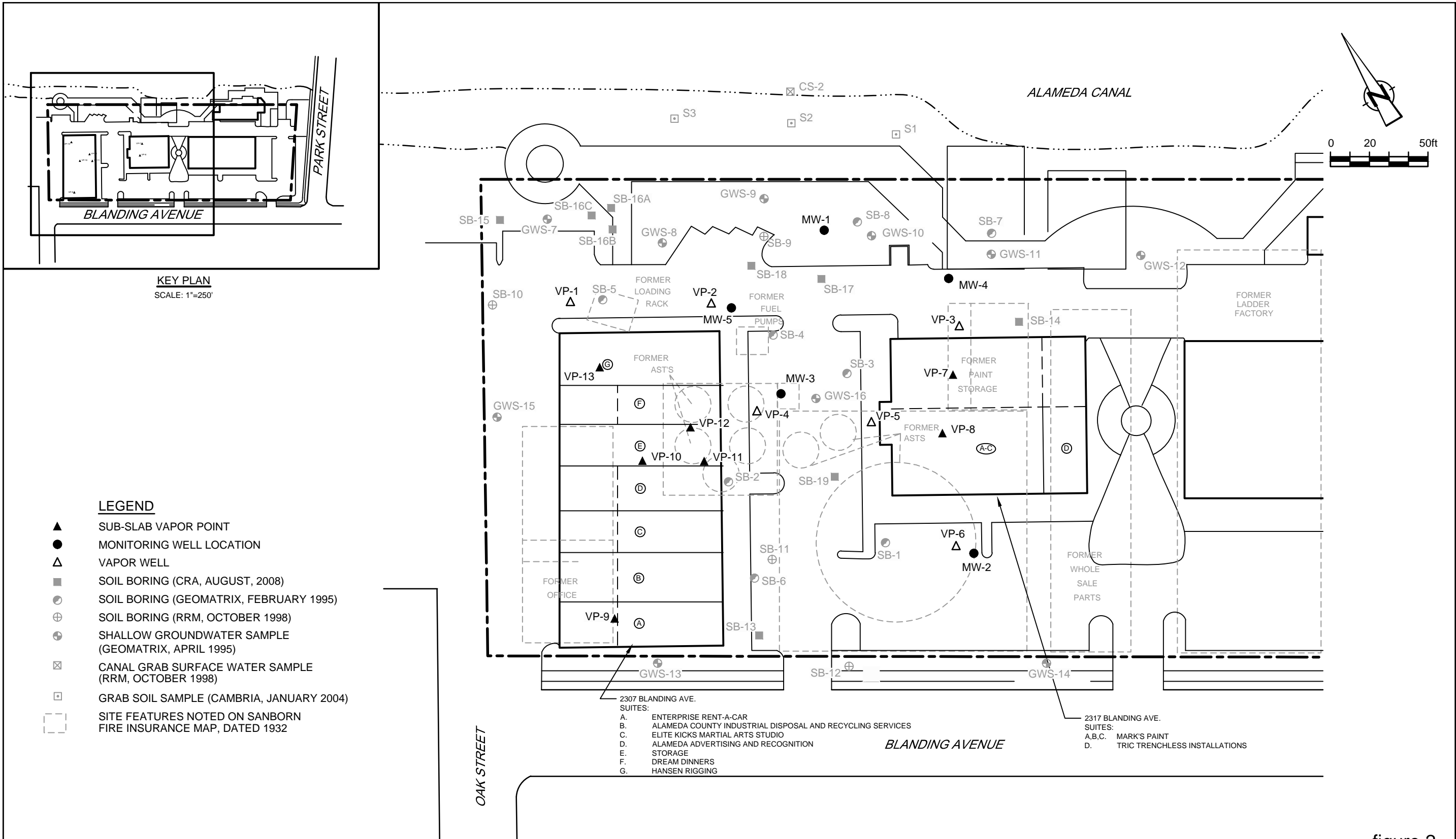


SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
 FORMER SIGNAL OIL BULK PLANT (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California





KEY PLAN
SCALE: 1"=250'

LEGEND

- ▲ SUB-SLAB VAPOR POINT
- MONITORING WELL LOCATION
- △ VAPOR WELL
- SOIL BORING (CRA, AUGUST, 2008)
- SOIL BORING (GEOMATRIX, FEBRUARY 1995)
- ⊕ SOIL BORING (RRM, OCTOBER 1998)
- ⊕ SHALLOW GROUNDWATER SAMPLE (GEOMATRIX, APRIL 1995)
- ⊗ CANAL GRAB SURFACE WATER SAMPLE (RRM, OCTOBER 1998)
- GRAB SOIL SAMPLE (CAMBRIA, JANUARY 2004)
- - - SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932

- 2307 BLANDING AVE. SUITES:
- A. ENTERPRISE RENT-A-CAR
 - B. ALAMEDA COUNTY INDUSTRIAL DISPOSAL AND RECYCLING SERVICES
 - C. ELITE KICKS MARTIAL ARTS STUDIO
 - D. ALAMEDA ADVERTISING AND RECOGNITION
 - E. STORAGE
 - F. DREAM DINNERS
 - G. HANSEN RIGGING

- 2317 BLANDING AVE. SUITES:
- A,B,C. MARK'S PAINT
 - D. TRIC TRENCHLESS INSTALLATIONS

figure 2
SITE PLAN
FORMER SIGNAL OIL BULK PLANT (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.



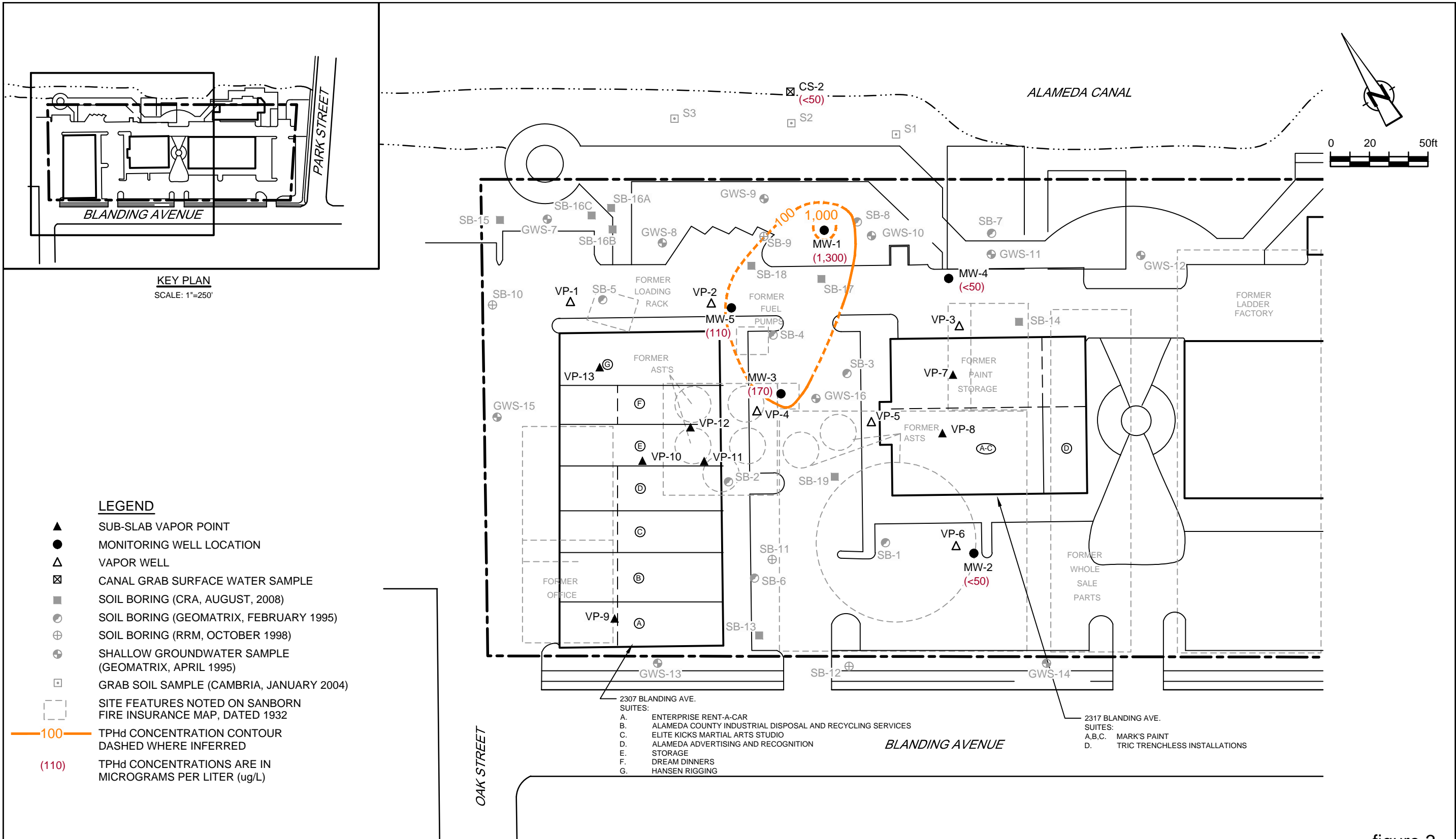


figure 3
 TPHd CONCENTRATIONS IN GROUNDWATER - JULY 3, 2009
 FORMER SIGNAL OIL BULK PLANT (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California

NOTE:
 WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
 ALL OTHER LOCATIONS ARE APPROXIMATE.

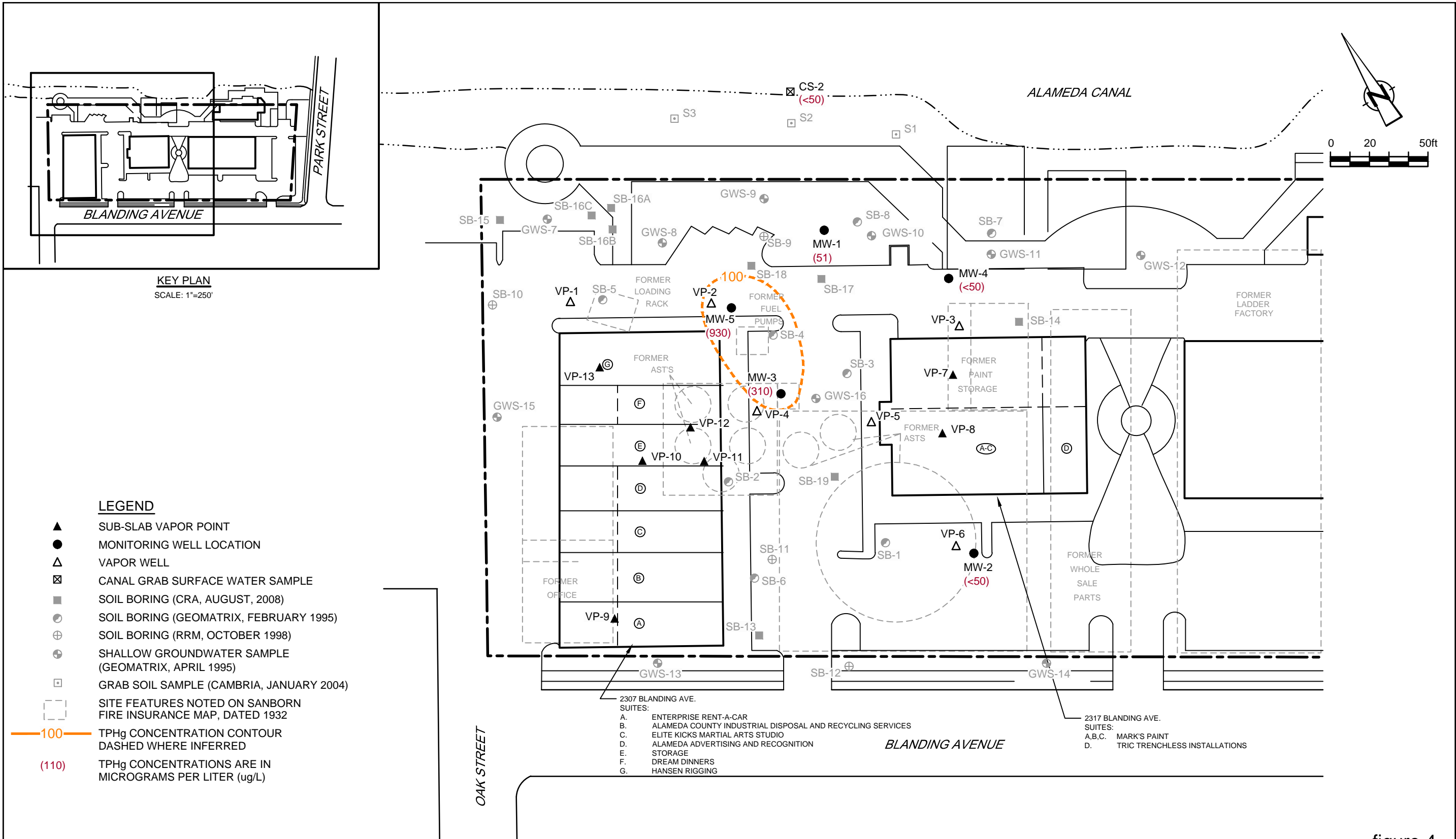


figure 4
 TPHg CONCENTRATIONS IN GROUNDWATER - JULY 3, 2009
 FORMER SIGNAL OIL BULK PLANT (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California

NOTE:
 WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
 ALL OTHER LOCATIONS ARE APPROXIMATE.

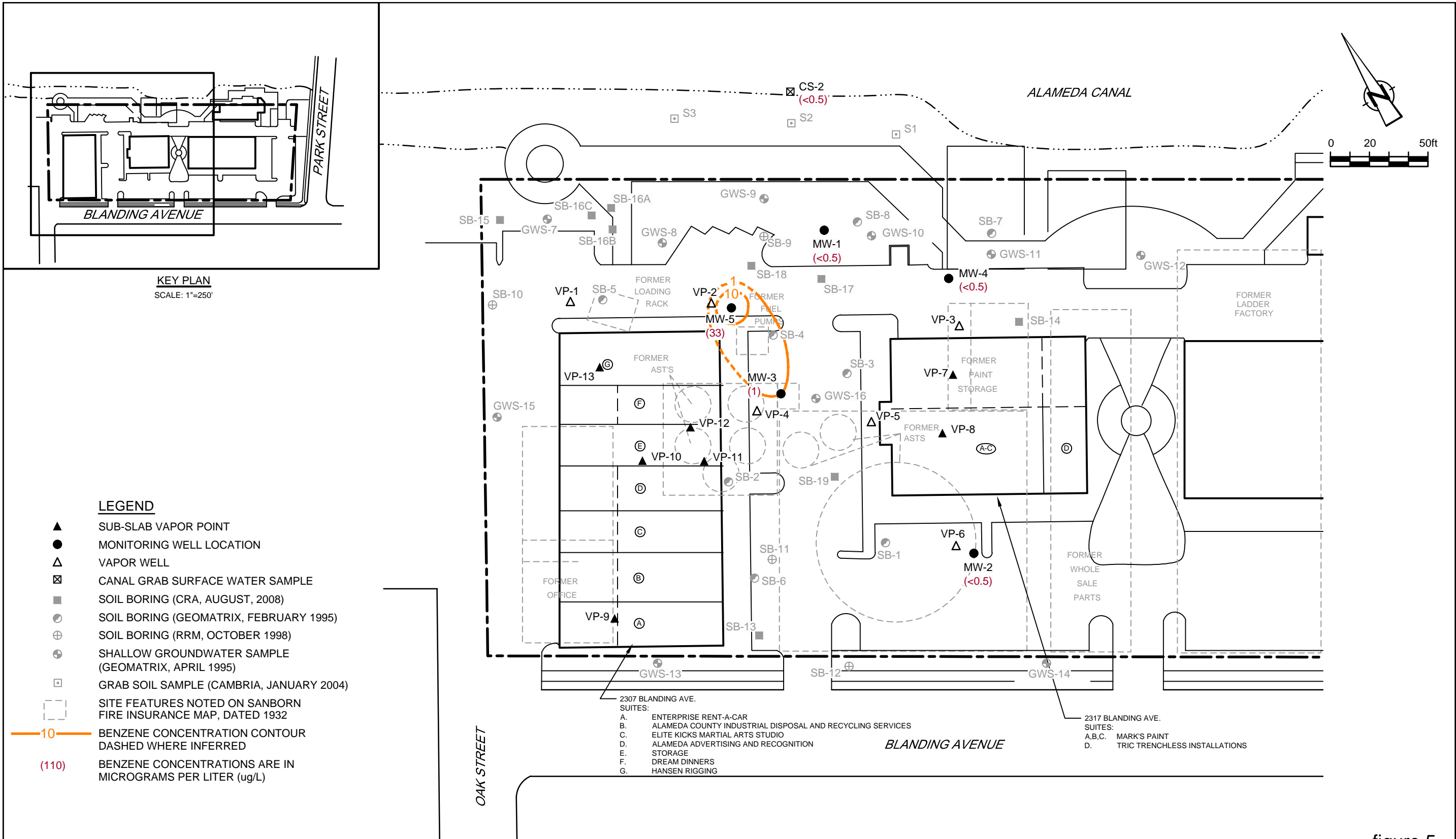


figure 5
 BENZENE CONCENTRATIONS IN GROUNDWATER - JULY 3, 2009
 FORMER SIGNAL OIL BULK PLANT (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California

NOTE:
 WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
 ALL OTHER LOCATIONS ARE APPROXIMATE.

TABLE

**WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(FORMER CHEVRON BULK PLANT 20-6127)
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC</i>	<i>Total Depth (fbg)</i>	<i>Casing Diameter ¹ (inches)</i>	<i>Slot Size (inches)</i>	<i>Screen Interval (fbg)</i>	<i>Filter Pack (fbg)</i>	<i>Status</i>
MW-1	8/15/1990	13.49	19.5	2	0.020	4-19	3-19.5	Active
MW-2	6/19/2009	10.63	18	2	0.020	10.5-15.5	10-16	Active
MW-3	6/19/2009	10.72	18.5	2	0.020	13.5-18.5	12.5-18.5	Active
MW-4	6/19/2009	11.40	20.5	2	0.020	15.5-20.5	14.5-20.5	Active
MW-5	6/23/2009	10.5	18	2	0.020	13-18	12-18	Active
VP-1 ²	7/9/2008	NS	4.25	1	0.020	3.75-4.25	3.5-4.5	Vapor only
VP-2 ²	7/9/2008	NS	4.75	1	0.020	4.25-4.75	4-5	Vapor only
VP-3 ²	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-4 ²	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-5 ²	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-6 ²	7/9/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-7 ³	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-8 ³	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-9 ³	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-10 ³	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-11 ³	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-12 ³	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-13 ³	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations / Notes

TOC = Top of casing elevation (feet above mean sea level)

¹ = Casing material: Schedule 40 PVC² = Wells VP-1 through VP-6 are vapor wells³ = Wells VP-7 through VP-13 are sub-slab vapor points

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

ATTACHMENT A

SUMMARY OF PREVIOUS ENVIRONMENTAL WORK

SUMMARY OF PREVIOUS ENVIRONMENTAL WORK

*Former Signal Oil Bulk Plant 20-6127
2301-2311 Blanding Avenue, Alameda, California*

1995 Soil and Groundwater Investigation: In February 1995, Geomatrix Consultants, Inc. (Geomatrix) advanced eight soil borings (SB-1 through SB-8) to approximately 10 feet below grade (fbg) in the northwestern portion of the site to evaluate if previous site uses had impacted soil and groundwater quality. Groundwater was not encountered in the borings. Two to three soil samples were collected at various depths from each boring for laboratory analysis. Nineteen samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd); and benzene, toluene, ethylbenzene, and xylenes (BTEX). TPHg was detected in six of the samples at concentrations ranging from 4.0 to 2,000 milligrams per kilogram (mg/kg). TPHd was detected in the majority of the samples at concentrations ranging from 10 to 250 mg/kg. BTEX were also detected in several of the samples (benzene up to 3.7 mg/kg). The highest concentrations of petroleum hydrocarbons generally were detected in borings SB-2 and SB-4 located in the vicinity of the former ASTs and gasoline pump, respectively, between 4 and 7 fbg. One sample from each boring (depths ranging from 0.5 to 3 fbg) was also analyzed for CAM 17 metals. The detected metals concentrations generally appeared to be within the range of natural background levels with the exception of slightly elevated arsenic in a few samples. Arsenic was detected in the samples collected at 1 fbg from borings SB-3, SB-4, and SB-6 at 68 mg/kg, 46 mg/kg, and 130 mg/kg, respectively. As a result, deeper samples collected from borings SB-3 (6.5 fbg) and SB-6 (8 fbg) were also analyzed for arsenic; arsenic was not detected in the sample collected from SB-3, but was detected at 2.5 mg/kg in the sample collected from SB-6. Based on these results, the soil impacted with arsenic appeared to be of limited vertical extent. Three soil samples (SB-4-7', SB-5-6', and SB-8-7') were also analyzed for VOCs, which were not detected. Based on the soil analytical results, a shallow groundwater survey was recommended to evaluate if groundwater had been impacted by petroleum hydrocarbons.

In April 1995, Geomatrix collected grab-groundwater samples from 10 shallow borings (GWS-7 through GWS-16) drilled to depths of 15 to 21.5 fbg at the site. Borings GWS-7 through GWS-12 were located in the northeastern portion of the site adjacent to Alameda Canal to evaluate if impacted groundwater was flowing toward the canal; based on an assumed groundwater flow direction toward the canal. Borings GWS-13 through GWS-15 were located on the southwest and northwest property boundaries in the assumed upgradient and perimeter crossgradient directions to evaluate the quality of groundwater coming onto the site. Boring GWS-16 was located to the northeast of the former ASTs and was drilled approximately 6 feet deeper than the remaining borings to evaluate deeper groundwater quality. The groundwater samples were analyzed for TPHg, BTEX, and TPHd; the samples were filtered by the laboratory to remove turbidity and a silica-gel cleanup was performed to remove non-petroleum organic matter prior to the TPHd analysis. TPHg was detected in the samples collected from borings GWS-8 through GWS-11 and GWS-16 at concentrations ranging from 70 (GWS-16) to 22,000 micrograms per liter ($\mu\text{g/L}$) (GWS-9). TPHd was detected in the samples collected from borings GWS-8 through GWS-11 at concentrations ranging from 60 (GWS-8) to 1,200 $\mu\text{g/L}$.

(GWS-9). Benzene was detected in the samples collected from borings GWS-8 through GWS-10 and GWS-16 at concentrations of 36 µg/L, 6,200 µg/L, and 880 µg/L, respectively. Toluene, ethylbenzene, and xylenes (up to 1,200 µg/L) were also detected in several of the samples. The maximum concentrations were detected in boring GWS-9 located downgradient of the gasoline pump and loading rack. Petroleum hydrocarbons were not detected in the upgradient borings GWS-13 through GWS-15. The deeper sample (GWS-16) contained only low to trace hydrocarbon concentrations.

A black granular material was encountered in boring GWS-7 in the northern corner of the site from approximately 2.5 to 6 fbg. This material appeared similar to a small pile of black granular material observed on the northwestern property boundary that appeared to have originated from the adjacent property (a metal fabrication company). A sample of this material was collected and analyzed for TPHd, VOCs, semi-VOCs, and CAM 17 metals. An elevated concentration of copper (1,700 mg/kg) was detected in the sample. The detected concentration did not exceed the Total Threshold Limit Concentration (TTL) of 2,500 mg/kg, which is the concentration above which a waste may be considered hazardous in California. The sample was also analyzed for soluble copper using the Waste Extraction Test (WET) method; which was detected at 0.04 milligrams per liter (mg/L). The detected soluble lead concentration did not exceed the Soluble Threshold Limit Concentration (STLC) of 25 mg/L, which is also the concentration above which a waste may be considered hazardous in California. Details of this investigation were presented in the report entitled *Soil Investigation and Shallow Groundwater Survey, Northwestern Portion of the Park Street Landing Site*, prepared by Geomatrix and dated September 1995.

1998 RBCA Tier 1 Evaluation: In July 1998, RRM, Inc. (RRM) performed a Tier 1 Risk-Based Corrective Action (RBCA) assessment to evaluate the potential health risks posed by residual petroleum hydrocarbons in soil and groundwater at the site. Based on the results, RRM recommended the collection of site-specific data to complete a Tier 2 RBCA evaluation; the identification of the beneficial uses of groundwater beneath the site; an evaluation of background water quality in Alameda Canal; and to provide evidence that biodegradation was reducing hydrocarbon concentrations. Details of this investigation were presented in the report entitled *Risk-Based Corrective Action (RBCA) Tier 1 Evaluation, Park Street Landing Site*, prepared by RRM and dated July 24, 1998.

1998 Soil and Groundwater Investigation: In October 1998, RRM performed an additional soil and groundwater investigation at the site. The purpose of the investigation was to: 1) collect site-specific data to complete a Tier 2 RBCA evaluation; 2) identify the beneficial uses of groundwater beneath the site; 3) evaluate the background water quality in Alameda Canal; and 4) evaluate whether biodegradation of petroleum hydrocarbons was occurring beneath the site. Four additional borings (SB-9 through SB-12) were advanced to depths of 15 to 18 fbg during the investigation. A total of eight soil samples were collected at various depths from the borings and analyzed for TPHg, TPHd, BTEX, and methyl tertiary butyl ether (MTBE). TPHg was detected in the soil samples collected at 5 and 13 fbg from boring SB-9 (130 and 900 mg/kg, respectively); and in the sample collected at 6 fbg from boring SB-11 (140 mg/kg). TPHd was detected in the soil samples collected at 5, 13, and 15 fbg from boring SB-9 (3,300 mg/kg,

1,300 mg/kg, and 1.2 mg/kg, respectively); in the sample collected at 5.5 fbg from boring SB-10 (130 mg/kg); and in the sample collected at 6 fbg from boring SB-11 (60 mg/kg). BTEX (up to 3.3 mg/kg) were detected in the soil samples collected from borings SB-9 and SB-11; MTBE (using EPA Method 8020) was only detected in the sample collected at 13 fbg from boring SB-9 (12 mg/kg). Following the initial TPHd analysis, two rounds of silica gel cleanup followed by TPHd analysis were performed on the soil samples from boring SB-9. The detected TPHd concentrations were reduced after each round, indicating that biodegradation was occurring, and natural organic matter was present in the subsurface.

Grab-groundwater samples were collected from each boring and analyzed for TPHg, TPHd, BTEX, and MTBE. TPHg was only detected in the samples collected from borings SB-9 (14,000 µg/L) and SB-11 (310 µg/L). TPHd was detected in the samples collected from borings SB-9 (83,000 µg/L), SB-10 (97 µg/L), and SB-11 (270 µg/L). Benzene and MTBE (using EPA Method 8020) were only detected in the sample collected from boring SB-9 (1,400 and 260 µg/L, respectively); the sample was re-analyzed for MTBE using EPA Method 8260, and MTBE was not detected. Toluene, ethylbenzene, and xylenes (up to 630 µg/L) were detected in the samples collected from borings SB-9 and SB-11. As with the soil samples, a silica-gel cleanup reduced the detected TPHd concentrations. Based on the depth to water in the borings, and the elevation of the borings, the groundwater flow direction was calculated to be northerly. Based on natural biodegradation indicator parameters in groundwater (dissolved oxygen, oxidation-reduction potential, nitrate, and sulfate), it appeared that petroleum hydrocarbons were being degraded both aerobically and anaerobically; although it appeared that anaerobic processes dominated.

Three grab-water samples (CS-1 through CS-3) were collected from Alameda Canal (Figure 2) and analyzed for TPHg, TPHd, BTEX, and MTBE; which were not detected. Water level measurements were collected from the Alameda Canal and the four temporary wells placed in borings SB-9 through SB-12 to evaluate potential tidal influence on groundwater beneath the site. The fluctuations in borings SB-10 through SB-12 were minimal indicating that groundwater was tidally influenced to a limited degree in these areas. A more significant fluctuation was observed in SB-9; suggesting that groundwater in this area was tidally influenced, and tidal fluctuations would tend to stabilize the petroleum hydrocarbon plume in this area. Two concrete sea walls separated shallow groundwater beneath the site from canal water; likely causing the limited tidal influence. Based on the site data, relevant beneficial uses, and associated water quality parameters, the most applicable beneficial use of groundwater beneath the site was determined to be freshwater replenishment to surface water.

A well survey was performed for a 1/2-mile radius around the site. Nine wells were identified within the search radius (one recovery well, one irrigation well, five extraction wells, and two industrial wells). All the wells were either located up-gradient of the site or across the Alameda Canal. Based on the results of the Tier 2 RBCA evaluation, soil and groundwater petroleum hydrocarbon concentrations at the site did not exceed the site-specific target levels (SSTLs). Details of this investigation were presented in the report entitled *Soil and Groundwater Investigation Results, Former Signal Oil Marine Terminal*, prepared by RRM and dated May 7, 1999.

2000 Monitoring Well Installation: In December 2000, Gettler-Ryan Inc., under the supervision of Delta Environmental Consultants, Inc. (Delta), installed one groundwater monitoring well (MW-1) along the northeastern portion of the site adjacent to the Alameda Canal. Soil samples were collected at depths of 5, 10, and 15 fbg from the well boring and analyzed for TPHg, TPHd, BTEX, and MTBE. TPHg was only detected in the sample collected at 10 fbg (320 mg/kg). TPHd was only detected in the samples collected at 5 and 10 fbg (30 and 160 mg/kg, respectively). Low concentrations of BTEX were detected in all the samples; MTBE was not detected in any of the samples. The initial groundwater sample collected from the well contained TPHg, TPHd, and benzene at 5,210 µg/L, 1,100 µg/L, and 868 µg/L, respectively. Details of this investigation were presented in the report entitled *Monitoring Well Installation Report*, prepared by Delta and dated April 10, 2001.

2004 Soil Investigation: In January 2004, Cambria Environmental Technology, Inc. (Cambria) collected three surface soil samples (S1, S2, and S3) from the bank above the western shore of the Alameda Canal. Sample S2 was collected directly down-slope of well MW-1 near a water seep observed on the slope above the canal. Samples S1 and S3 were collected approximately 70 feet east and 90 feet north of well MW-1, respectively, to evaluate background concentrations. The three samples were analyzed for TPHg, TPHd, BTEX, and MTBE. TPHg, BTEX, and MTBE were not detected in any of the samples. TPHd was detected in samples S1, S2, and S3 at 14 mg/kg, 220 mg/kg, and 220 mg/kg, respectively. The laboratory chromatographs indicated that the hydrocarbon pattern observed in these soil samples was not typical of diesel fuel. Therefore, it was concluded the TPHd detections may have represented either highly-degraded diesel fuel from various historical onsite and nearby operations, or residual organic material of unknown origin present in local fill material. Details of this investigation were presented in the report entitled *Soil Sampling Report*, prepared by Cambria and dated February 18, 2004.

Based on generally decreasing petroleum hydrocarbon concentrations in well MW-1 observed during quarterly monitoring, Cambria submitted a case closure request to ACEH dated January 10, 2006. In response to this request, and in a letter dated October 17, 2007, the ACEH requested the collection of additional data to substantiate the conclusion that petroleum hydrocarbons were not migrating and discharging into Alameda Canal. In addition, the potential for vapor intrusion was to be evaluated. Therefore, CRA prepared and submitted *Soil Boring and Vapor Point Installation Work Plan*, dated January 10, 2008. In a letter dated January 30, 2008, the ACEH approved the work plan, with several provisions.

2008 Site Investigation: In July 2008, CRA advanced six soil borings (SB-13 through SB-15 and SB-17 through SB-19) to a maximum depth of 16 fbg, and installed and sampled six permanent soil vapor wells (VP-1 through VP-6) to depths of 4.5 to 6 fbg. Soil boring SB-16 was cleared to 3 fbg but could not be completed due to refusal encountered at three locations (16A, B, and C). Soil boring SB-16 was cleared to 3 fbg but could not be completed due to refusal encountered at three locations (16A, B, and C).

Soil analytical data indicated that the majority of TPHd and TPHg concentrations in soil are generally located in the area of and downgradient of the former ASTs. The highest

concentrations were detected in boring VP-4 at 5 fbg. Relatively low concentrations of TPHd and TPHg were detected in the perimeter borings. Low concentrations of petroleum-related VOCs were also detected in the majority of the soil samples. The BTEX and VOC concentrations generally did not exceed the ESLs, with the exception of a few samples. Concentrations generally appeared to attenuate or were significantly reduced at 10 fbg. Generally, concentrations of metals were consistent with background levels and only exceeded the ESLs in a few of the samples. Metals in shallow soil across the northwest portion of the site do not appear to be a result of former bulk plant operations. The metals do not appear to have impacted groundwater as only barium was detected in well MW-1.

The highest concentrations of hydrocarbons in groundwater were generally located downgradient of the former ASTs. TPHd, TPHg, and benzene were detected in downgradient boring SB-18 at 19,000 µg/L, 3,800 µg/L, and 590 µg/L, respectively; but only at 1,600 µg/L, 650 µg/L, and 3 µg/L, respectively, in boring SB-19 adjacent to the former large AST. Only relatively low concentrations of TPHd (up to 750 µg/L) were detected in perimeter borings SB-13, SB-14, and SB-15; and as evidenced by the work performed by RRM, some or most of the detected TPHd may be due to natural organic matter. The extent of the impacted groundwater is well-defined by borings GWS-7, GWS-12 through GWS-15, SB-10 (following silica gel cleanup), and SB-12. Chlorinated solvents were not detected in any of the soil samples collected, and generally were not detected in the groundwater samples with the exception of low concentrations of TCE, cis-1,2-DCE, and vinyl chloride in the sample collected from boring SB-15 in the northeast corner of the site.

The highest hydrocarbon concentrations in soil gas were detected in vapor wells VP-4, VP-5, and VP-6 located in the area of the former ASTs. Significantly lower concentrations were detected in vapor wells VP-1 and VP-2 located downgradient of VP-4. Chlorinated solvents were not detected in the soil vapor samples. Additional details of this investigation are presented in CRA's report entitled *Site Investigation Report*, dated October 2008.

2009 Monitoring Well Installation and Sub-Slab Vapor Sampling: In June 2009, CRA installed monitoring wells MW-2 through MW-5 to total depths of 16 to 20.5 fbg in order to further evaluate groundwater quality beneath the site. The new monitoring wells were installed within the former ASTs (MW-3), and north (MW-5), south (MW-2), and east (MW-4) of the former ASTs. Soil analytical data indicated that the majority of TPHd and TPHg concentrations in soil are located north to south through the former ASTs and generally decreases with depth. The highest TPHd concentration detected was from well boring MW-3 at 4 fbg at a concentration of 610 mg/kg. The highest TPHg concentration detected was from well boring MW-2 at 4.5 fbg at 1,100 mg/kg. No petroleum hydrocarbons were detected in perimeter well boring MW-4. No grab-groundwater samples were collected.

CRA also installed sub-slab vapor points beneath the two western buildings at the site in order to further evaluate potential vapor intrusion beneath the buildings. Two sub-slab vapor points (VP-7 and VP-8) were installed inside 2317 Blanding Avenue and five sub-slab vapor points (VP-9 through VP-13) were installed inside 2307 Blanding Avenue. The highest hydrocarbon concentrations in soil gas were detected in vapor points VP-9 and VP-13, located

west-southwest of the former ASTs. Lower concentrations were detected in vapor points VP-8, and VP-10 through VP-12. All detected concentrations were below the shallow soil gas ESL of 29,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Target chlorinated solvents were not detected in the soil vapor samples. Additional details of this investigation are presented in CRA's *Well Installation and Sub-Slab Vapor Sampling Report*, dated September 8, 2009.

ATTACHMENT B

G-R GROUNDWATER MONITORING AND SAMPLING REPORT



TRANSMITTAL

August 27, 2009
G-R #386498

TO: Mr. Brian Silva
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

CC: Mr. Mike Bauer
Chevron EMC
145 S. State College Blvd.,
Room 4089
Brea, California 92821
(VIA PDF)

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron #206127 (MTI)**
2301-2337 Blanding Avenue
Alameda, California
(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 25, 2009	Groundwater Monitoring and Sampling Report Well Development Event of June 30, 2009 Third Quarter Event of July 3, 2009

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced report for **your use and distribution to the following (via PDF):**

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health,
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(Distributed by Conestoga-Rovers & Associates via PDF)

Enclosures

trans/206127-SHF

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job # 386498
 Event Date: 6-30-09
 Sampler: Soe

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-2	O.K	O.K	O.K	O.K	O.K	O.K	O.K	N	N	12" EMCO/2	No
MW-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
MW-4	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
MW-5	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓

Comments _____

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job # 386498
 Event Date: 7-3-09
 Sampler: Joc

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1	O.K	O.K	O.K	O.K	O.K	O.K	O.K	N	N	12" EMCO/2	No
MW-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
MW-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
MW-4	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
MW-5	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓

Comments _____



August 25, 2009
G-R Job #386498

Mr. Mike Bauer
Chevron Environmental Management Company
145 S. State College Blvd., Room 4089
Brea, CA 92821

Well Development of June 30, 2009
Third Quarter Event of July 3, 2009
Groundwater Monitoring & Sampling Report
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

Dear Mr. Bauer:

This report documents the most recent groundwater monitoring and sampling events performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater level was measured and the well was checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevation, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring well and submitted to a state certified laboratory for analyses. The field data sheet for this event is attached. Analytical results are presented in the table(s) listed below. The chain of custody document and the laboratory analytical reports are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, P.G. No. 6882

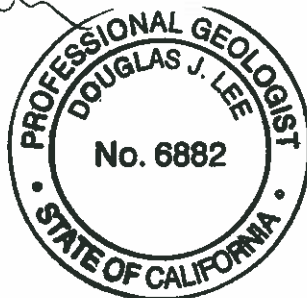
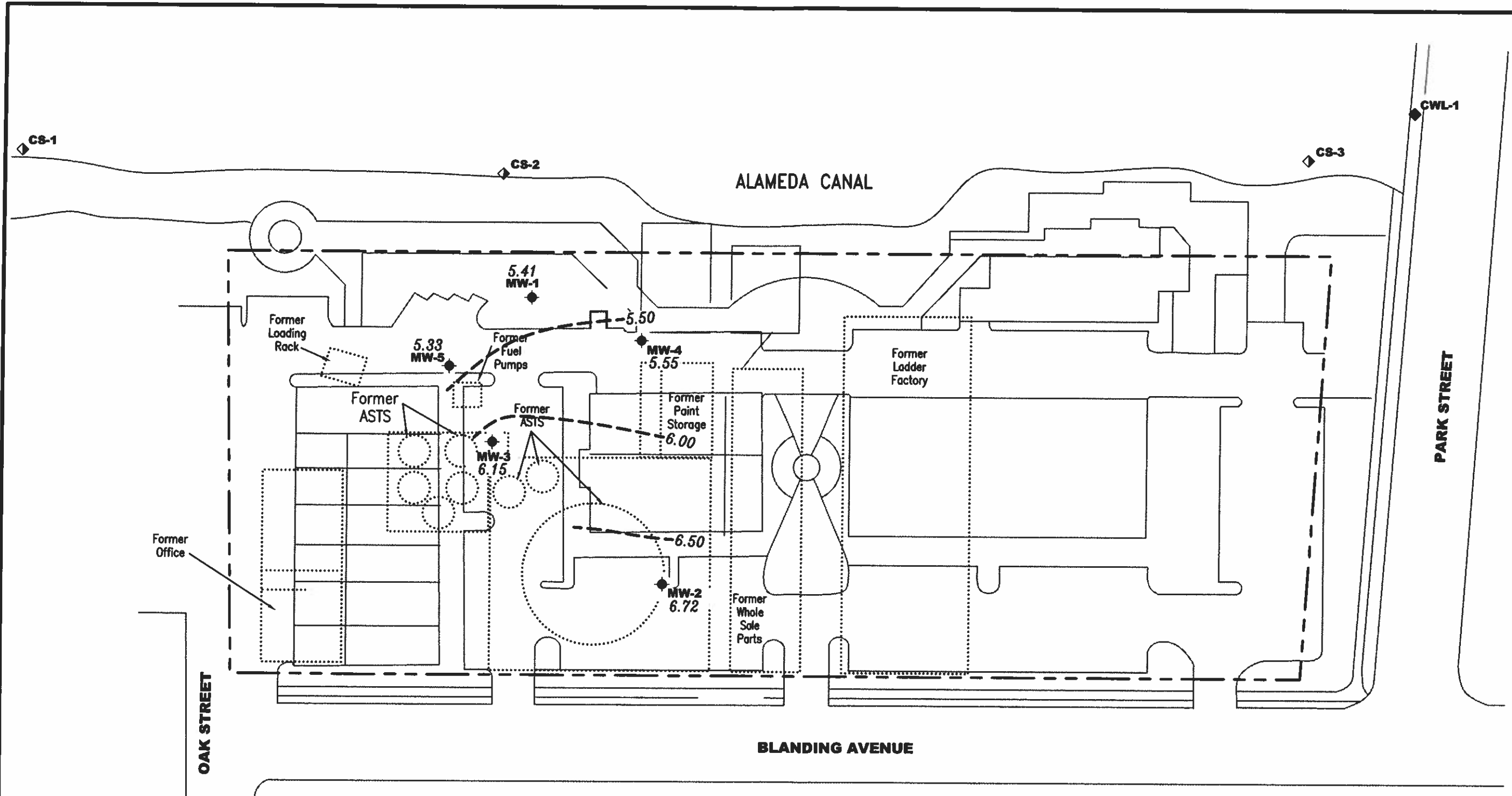



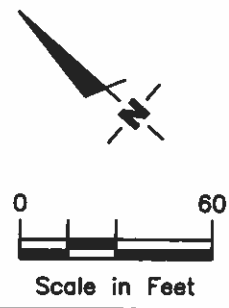
Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Metals
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- ◆ Groundwater monitoring well
- ◇ Canal grab surface water sample
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred


 Approximate groundwater flow direction at a gradient of 0.008 to 0.02 Ft./Ft.



Source: Figure modified from drawing provided by Conestoga-Rovers & Associates, Figure 1, Site Plan, Dated: 8/20/09

POTENTIOMETRIC MAP
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 386498
 REVIEWED BY: [Signature]
 DATE: July 3, 2009
 REVISED DATE:

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1										
01/23/01 ¹	--	7.16	--	1,100 ^{2,3}	5,210 ⁴	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550 ^{3,8}	2,000 ⁷	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,200 ⁹	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	3,300 ³	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	1,200 ³	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	2,800 ³	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	1,000 ³	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960 ³	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920 ³	870	56	1	1.4	3.1	<2.5
07/16/03 ¹⁰	10.62	10.08	0.54	1,400 ³	780	85	1	0.8	0.7	<0.5
10/18/03 ¹⁰	10.62	8.51	2.11	1,200 ³	640	42	0.8	<0.5	0.5	<0.5
01/22/04 ¹⁰	10.62	8.95	1.67	1,500 ³	440	18	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	10.62	8.95	1.67	2,200 ³	410	10	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	10.62	9.21	1.41	1,800 ³	400	6	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	10.62	8.36	2.26	2,200 ³	150	2	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	10.62	7.09	3.53	1,200 ³	55	8	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	10.62	7.84	2.78	480 ³	<50	5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	10.62	8.12	2.50	610 ^{3,11}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	10.62	8.07	2.55	920 ^{3,12}	<50	10	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	10.62	6.98	3.64	960 ^{3,12}	<50	6	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	10.62	7.04	3.58	1,200 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	10.62	7.13	3.49	1,200 ³	92	14	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	10.62	7.64	2.98	990 ³	<50	3	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	10.62	7.09	3.53	840 ³	83	4	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	10.62	7.11	3.51	1,200 ³	57	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07 ¹⁰	10.62	7.41	3.21	1,100 ³	120	8	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	10.62	7.55	3.07	750 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	10.62	6.98	3.64	1,700 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	10.62	7.36	3.26	1,100 ³	62	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	10.62	7.89	2.73	580 ³	93	3	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TOC* (fl.)	DTW (fl.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1 (cont)										
10/15/08 ¹⁰	10.62	7.46	3.16	740 ³	56	0.7	<0.5	<0.5	0.8	<0.5
01/21/09 ¹⁰	10.62	7.19	3.43	390 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	10.62	6.93	3.69	1,400 ²	80	0.7	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	13.49	8.08	5.41	1,300 ³	51	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2										
06/30/09 ¹	10.63	3.80	6.83	—	—	—	—	—	—	—
07/03/09 ¹⁴	10.63	3.91	6.72	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	—
MW-3										
06/30/09 ¹	10.72	4.61	6.11	—	—	—	—	—	—	—
07/03/09 ¹⁴	10.72	4.57	6.15	170 ³	310	1	<0.5	2	<0.5	—
MW-4										
06/30/09 ¹	11.40	6.02	5.38	—	—	—	—	—	—	—
07/03/09 ¹⁴	11.40	5.85	5.55	<50 ¹	<50	<0.5	<0.5	<0.5	<0.5	—
MW-5										
06/30/09 ¹	10.50	5.20	5.30	—	—	—	—	—	—	—
07/03/09 ¹⁴	10.50	5.17	5.33	110 ³	930	33	2	0.6	3	—
CS-2										
07/30/01	—	—	—	140 ^{3,5}	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/08/01	—	—	—	53 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	—	—	—	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	—	—	—	77 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	—	—	—	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
CS-2 (cont)										
10/15/02	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 ¹⁰	--	--	--	<50 ³	<50	<0.5	0.7	<0.5	0.6	<0.5
10/18/03 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	--	--	--	140 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	--	--	--	85 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	--	--	--	86 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TOC* (%)	DTW (ft)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK										
TB-LB										
01/23/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/30/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA										
10/08/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/18/03 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TOC* (%)	DTW (ft)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)										
04/16/08 ¹⁰	-	-	--	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	-	-	--	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	-	-	--	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 ¹⁰	-	-	--	-	<50 ¹³	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	-	-	--	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	-	-	--	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

EXPLANATIONS:

TOC = Top of Casing (ft.) = Feet	DRO = Diesel Range Organics	MTBE = Methyl Tertiary Butyl Ether
DTW = Depth to Water	GRO = Gasoline Range Organics	(µg/L) = Micrograms per liter
GWE = Groundwater Elevation	B = Benzene	-- = Not Measured/Not Analyzed
(msl) = Mean sea level	T = Toluene	CS-2 = Creek Sample
TPH = Total Petroleum Hydrocarbons	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
	X = Xylenes	

- * TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 by GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding. (Benchmark Elevation = 8.236 feet, NGVD 29).
- ¹ Well development performed.
- ² Laboratory report indicates unidentified hydrocarbons <C16.
- ³ Analyzed with silica gel cleanup.
- ⁴ Laboratory report indicates weathered gasoline C6-C12.
- ⁵ Laboratory report indicates discrete peaks.
- ⁶ Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- ⁷ Laboratory report indicates gasoline C6-C12.
- ⁸ Laboratory report indicates unidentified hydrocarbons C9-C24.
- ⁹ Analysis performed without silica gel cleanup although was requested on the Chain of Custody.
- ¹⁰ BTEX and MTBE by EPA Method 8260.
- ¹¹ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
- ¹² Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- ¹³ Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 60 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%. The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar. The reanalysis was reported.
- ¹⁴ BTEX by EPA Method 8260.

Table 2
Groundwater Analytical Results - Metals
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	Mercury (µg/L)
MW-2 07/03/09	<9.7	<7.2	28.1	<1.4	<2.0	14.6	<2.1	<2.7	<6.9	<4.9	10.6	<8.9	<2.3	<14.0	12.6	11.6	<0.056
MW-3 07/03/09	<9.7	<7.2	143	<1.4	<2.0	8.5	<2.1	3.3	<6.9	<4.9	7.8	<8.9	<2.3	<14.0	13.8	18.8	<0.056
MW-4 07/03/09	<9.7	<7.2	83.5	<1.4	<2.0	10.0	<2.1	<2.7	<6.9	<4.9	4.5	<8.9	<2.3	<14.0	6.3	15.8	<0.056
MW-5 07/03/09	<9.7	32.7	148	<1.4	<2.0	<3.4	<2.1	3.1	<6.9	<4.9	3.6	<8.9	<2.3	<14.0	<2.5	19.2	<0.056

EXPLANATIONS

(µg/L) = Micrograms per liter

ANALYTICAL METHODS:

Metals analyzed by EPA Method SW-846 6010B
 Mercury analyzed by Method SW-7470A

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hill, California.

***Chevron #206127
(Former Signal Oil Marine Terminal)
Alameda, CA***

***WELL DEVELOPMENT EVENT OF
June 30, 2009***



GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 6-30-09 (inclusive)
 Sampler: 501

Well ID: MW-2
 Well Diameter: 2 in.
 Initial Total Depth: (15.08) ft.
 Final Total Depth: 15.60 ft.
 Depth to Water: 3.80 ft.

Date Monitored: 6-30-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water 11.28 xVF 0.17 = 1.92 x10 case volume = Estimated Purge Volume: 20 gal.
 Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: /

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer /
 Stack Pump /
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): /
 Sample Time/Date: / 1
 Approx. Flow Rate: _____ gpm.
 Did well de-water? / If yes, Time: _____

Weather Conditions: cloudy
 Water Color: s. lky Odor: 0/1 N faint
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: /

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1130</u>	<u>2</u>	<u>6.72</u>	<u>2516</u>	<u>18.7</u>		
<u>1142</u>	<u>4</u>	<u>6.75</u>	<u>2522</u>	<u>18.8</u>		
<u>1144</u>	<u>8</u>	<u>6.81</u>	<u>2518</u>	<u>18.5</u>		
<u>1155</u>	<u>11</u>	<u>6.88</u>	<u>2497</u>	<u>19.0</u>		
<u>1208</u>	<u>13</u>	<u>6.82</u>	<u>2512</u>	<u>18.3</u>		
<u>1215</u>	<u>15</u>	<u>6.80</u>	<u>2506</u>	<u>18.6</u>		
<u>1225</u>	<u>17</u>	<u>6.76</u>	<u>2487</u>	<u>18.1</u>		
<u>1229</u>	<u>20</u>	<u>6.83</u>	<u>2493</u>	<u>18.5</u>		
<u>1234</u>	<u>22</u>	<u>6.87</u>	<u>2486</u>	<u>18.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: DEVELOP ONLY

Add/Replaced Lock: / Add/Replaced Plug: / Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 6-30-09 (inclusive)
 Sampler: Jac

Well ID: MW-3
 Well Diameter: 2 in.
 Initial Total Depth: (17.25) ft.
 Final Total Depth: 17.88 ft.
 Depth to Water: 4.61 ft.

Date Monitored: 6-30-09

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

12.64 xVF 0.17 = 2.15 x10 case volume = Estimated Purge Volume: 22 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer ✓
 Stack Pump ✓
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: 1
 Approx. Flow Rate: _____ gpm.
 Did well de-water? ✓ If yes, Time: _____

Weather Conditions: 9:11 cloudy
 Water Color: clear Odor: Y/N
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1010</u>	<u>2</u>	<u>6.95</u>	<u>2612</u>	<u>19.1</u>		
<u>1030</u>	<u>5</u>	<u>6.85</u>	<u>2528</u>	<u>18.8</u>		
<u>1033</u>	<u>7</u>	<u>6.92</u>	<u>2534</u>	<u>18.6</u>		
<u>1035</u>	<u>9</u>	<u>6.91</u>	<u>2516</u>	<u>18.5</u>		
<u>1045</u>	<u>12</u>	<u>6.78</u>	<u>2519</u>	<u>18.8</u>		
<u>1056</u>	<u>16</u>	<u>6.82</u>	<u>2530</u>	<u>18.9</u>		
<u>1059</u>	<u>19</u>	<u>6.75</u>	<u>2541</u>	<u>19.0</u>		
<u>1108</u>	<u>21</u>	<u>6.83</u>	<u>2530</u>	<u>18.5</u>		
<u>1113</u>	<u>24</u>	<u>6.89</u>	<u>2530</u>	<u>18.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: DEVELOP ONLY

Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 6-30-09 (inclusive)
 Sampler: Joc

Well ID: MW-4
 Well Diameter: 2 in.
 Initial Total Depth: (19.83) ft.
 Final Total Depth: 20.20 ft.
 Depth to Water: 6.02 ft.

Date Monitored: 6-30-09

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

13.81 xVF 0.17 = 2.35 x10 case volume = Estimated Purge Volume: 24 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer ✓
 Stack Pump ✓
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:

Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge):
 Sample Time/Date:
 Approx. Flow Rate: gpm.
 Did well de-water? If yes, Time:

Weather Conditions: cloudy
 Water Color: turbid Odor: Y1(N)
 Sediment Description:
 Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 15)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
feet bails (0850)	2.5	7.25	2315	19.2		
0905	5	7.37	2321	19.4		
0908	8	7.38	2346	19.1		
0911	11	7.30	2352	19.3		
feet bails 0925	14	7.36	2361	19.0		
0928	16	7.21	2355	18.7		
feet bails 0931	19	7.23	2351	18.7		
0942	22	7.28	2347	18.6		
0948	25	7.24	2353	18.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: DEVELOP ONLY

Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ Add/Replaced Bolt:



GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 6-30-09 (inclusive)
 Sampler: JPL

Well ID: MW-5
 Well Diameter: 2 in.
 Initial Total Depth: (17.50) ft.
 Final Total Depth: 17.90 ft.
 Depth to Water: 5.20 ft.

Date Monitored: 6-30-09

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.30 xVF 0.17 = 2.09 x10 case volume = Estimated Purge Volume: 21 gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer
 Stack Pump
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: 6/30/09
 Approx. Flow Rate: _____ gpm.
 Did well de-water? If yes, Time: _____

Weather Conditions: Foggy
 Water Color: creamy Odor: Y1 (N)
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - @)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>0722</u>	<u>2</u>	<u>6.90</u>	<u>2346</u>	<u>18.5</u>		
<u>0730</u>	<u>5</u>	<u>6.85</u>	<u>2353</u>	<u>18.6</u>		
<u>0732</u>	<u>8</u>	<u>6.86</u>	<u>2350</u>	<u>18.2</u>		
<u>0748</u>	<u>11</u>	<u>6.81</u>	<u>2349</u>	<u>18.4</u>		
<u>0800</u>	<u>14</u>	<u>6.84</u>	<u>2344</u>	<u>18.1</u>		
<u>0804</u>	<u>16</u>	<u>6.82</u>	<u>2340</u>	<u>18.0</u>		
<u>0806</u>	<u>19</u>	<u>6.84</u>	<u>2346</u>	<u>18.6</u>		
<u>0830</u>	<u>21</u>	<u>6.87</u>	<u>2354</u>	<u>18.4</u>		
<u>0835</u>	<u>23</u>	<u>6.83</u>	<u>2350</u>	<u>18.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: DEVELOP ONLY

Removed pair like roots from well during developing.

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt: _____

CHEVRON #206127
(Former Signal Oil Marine Terminal)
Alameda, CA

QUARTETLY MONITORING AND SAMPLING
EVENT
July 3, 2009



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-3-09 (inclusive)
 City: Alameda, CA Sampler: Jac

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 17.16 ft.
 Depth to Water: 8.08 ft.

Date Monitored: 7-3-09

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water 9.08 xVF 0.17 = 1.54 x3 case volume = Estimated Purge Volume: 5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.89

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1042 Weather Conditions: clear
 Sample Time/Date: 1110 7-3-09 Water Color: clear Odor: ⓪ / N faint
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.63

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>⓪</u>)	Temperature (⓪ / F)	D.O. (mg/L)	ORP (mV)
<u>1050</u>	<u>1.5</u>	<u>6.85</u>	<u>2257</u>	<u>18.2</u>	_____	_____
<u>1050</u>	<u>3</u>	<u>6.76</u>	<u>2243</u>	<u>18.4</u>	_____	_____
<u>1100</u>	<u>5</u>	<u>6.81</u>	<u>2251</u>	<u>18.6</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>2 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2 x 500ml amber</u>	<u>YES</u>	<u>NF</u>	<u>LANCASTER</u>	<u>TPH-BRO w/sg (8015) ✓✓</u>
	<u>1 x 500ml Poly</u>	<u>YES</u>	<u>HNO3</u>	<u>LANCASTER</u>	<u>CAM 17 METALS</u>
	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS: Removed roots from well.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 7-3-09 (inclusive)
 Sampler: Joc

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 15.60 ft.
 Depth to Water: 3.91 ft.
11.69 xVF 0.17 = 1.99

Date Monitored: 7-3-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.24

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0705
 Sample Time/Date: 0740 7-3-09
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: clear
 Water Color: clear Odor: 0 IN moderate
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: 9.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - 10)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0715</u>	<u>2</u>	<u>6.90</u>	<u>2358</u>	<u>18.8</u>	_____	_____
<u>0724</u>	<u>4</u>	<u>6.81</u>	<u>2362</u>	<u>19.0</u>	_____	_____
<u>0730</u>	<u>6</u>	<u>6.74</u>	<u>2355</u>	<u>19.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)
	<u>1</u> x 500ml Poly	YES	HNO3	LANCASTER	CAM 17 METALS
	<u>x</u> voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 7-3-09 (inclusive)
 Sampler: Joe

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 17.88 ft.
 Depth to Water: 4.57 ft.

Date Monitored: 7-3-09

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.23
 $13.31 \times VF 0.17 = 2.26$ x3 case volume = Estimated Purge Volume: 67 gal.

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0800 Weather Conditions: clear
 Sample Time/Date: 0845 7-3-09 Water Color: clear Odor: Y (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (US)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0815</u>	<u>2.5</u>	<u>7.19</u>	<u>2403</u>	<u>19.2</u>		
<u>0825</u>	<u>5</u>	<u>7.25</u>	<u>2375</u>	<u>19.6</u>		
<u>0834</u>	<u>7</u>	<u>7.16</u>	<u>2376</u>	<u>19.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x vva vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)
	<u>1</u> x 500ml Poly	YES	HNO3	LANCASTER	CAM 17 METALS
	<u>x vva vial</u>	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 7-3-09 (inclusive)
 Sampler: Jac

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 20.20 ft.
 Depth to Water: 5.85 ft.

Date Monitored: 7-3-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.72
 $14.35 \times VF 0.17 = 2.44$ x3 case volume = Estimated Purge Volume: 7.5 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0900 Weather Conditions: clear
 Sample Time/Date: 0940 / 7-3-09 Water Color: clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.58

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0915</u>	<u>2.5</u>	<u>7.41</u>	<u>2280</u>	<u>19.7</u>	_____	_____
<u>0922</u>	<u>5</u>	<u>7.36</u>	<u>2306</u>	<u>19.6</u>	_____	_____
<u>0930</u>	<u>7.5</u>	<u>7.28</u>	<u>2311</u>	<u>19.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)
	<u>1</u> x 500ml Poly	YES	HNO3	LANCASTER	CAM 17 METALS
	<u>x voa vial</u>	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX-MFBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-3-09 (inclusive)
 City: Alameda, CA Sampler: Jee

Well ID: MW-5 Date Monitored: 7-3-09
 Well Diameter: 2 in.
 Total Depth: 17.90 ft.
 Depth to Water: 5.17 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 $1.273 \times VF 0.17 = 2.16$ x3 case volume = Estimated Purge Volume: 6.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.84

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0955 Weather Conditions: clear
 Sample Time/Date: 1030 7-3-09 Water Color: clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.43

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - @)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1005</u>	<u>2</u>	<u>7.21</u>	<u>2431</u>	<u>18.8</u>	_____	_____
<u>1012</u>	<u>4</u>	<u>6.95</u>	<u>2382</u>	<u>19.0</u>	_____	_____
<u>1020</u>	<u>6.5</u>	<u>6.87</u>	<u>2375</u>	<u>19.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW5</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)
	<u>1</u> x 500ml Poly	YES	HNO3	LANCASTER	CAM 17 METALS
	<u>1</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: Removed some hair line roots from well.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 386498
 Event Date: 7-3-09 (inclusive)
 Sampler: Joe

Well ID: CS-2
 Well Diameter: 2 in.
 Total Depth: / ft.
 Depth to Water: / ft.

Date Monitored: /

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF = / x3 case volume = Estimated Purge Volume: / gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: /

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: clear
 Sample Time/Date: 1125 17-3-09 Water Color: clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>CS-2</u>	<u>x voa vial</u>	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2 x 500ml ambers</u>	YES	NP	LANCASTER	TPH-DRO w/sg (8015) ✓✓
	<u>x 500ml Poly</u>	YES	HNO3	LANGASTER	GAM 17 METALS
	<u>6 x voa vial</u>	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: Creek sample

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody



07 2009-12

For Lancaster Laboratories use only
 Acct. #: 10904 Sample #: 5717041-47 Group #: 017366

1152276

Facility #: SS#206127-OML G-R#386498 Global ID#T06019744728
 Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA
 Chevron PM: MB Lead Consultant: CRASB
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone: 925-551-7555 Fax #: 925-551-7899
 Sampler: JOE ASEMIAN

Matrix		Analyses Requested									
		Preservation Codes									
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8016 MOD GRO	TPH 8016 MOD DRO	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
<input type="checkbox"/> Potable <input type="checkbox"/> NPDES											
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
											<u>BTEX (8260)</u>
											<u>CAM 17 Metals</u>

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	Air
<u>QA</u>			<input checked="" type="checkbox"/>					
<u>MW-1</u>	<u>7-3-09</u>	<u>1110</u>						
<u>MW-2</u>		<u>0740</u>						
<u>MW-3</u>		<u>0845</u>						
<u>MW-4</u>		<u>0940</u>						
<u>MW-5</u>		<u>1030</u>						
<u>CS-2</u>		<u>1125</u>						

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)
 GC Summary Type I - Full **EDF/EDD**
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>7-3-09</u>	Time: _____	Received by: <u>[Signature]</u>	Date: <u>7/6/09</u>	Time: _____
Relinquished by: <u>[Signature]</u>	Date: <u>7/6/09</u>	Time: <u>1445</u>	Received by: <u>[Signature]</u>	Date: <u>7/6/09</u>	Time: <u>1445</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/6/09</u>	Time: <u>1630</u>	Received by: <u>[Signature]</u>	Date: _____	Time: _____
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx Other _____	Temperature Upon Receipt: <u>07-23</u> °C		Received by: <u>[Signature]</u>	Date: <u>7/6/09</u>	Time: <u>0940</u>
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

July 16, 2009

RECEIVED

JUL 16 2009

GETTLER-RYAN INC.
GENERAL CONTRACTORS**SAMPLE GROUP**

The sample group for this submittal is 1152276. Samples arrived at the laboratory on Tuesday, July 07, 2009. The PO# for this group is 0015039883 and the release number is BAUER.

Client DescriptionQA-T-090703 NA Water
MW-1-W-090703 Grab Water
MW-2-W-090703 Grab Water
MW-3-W-090703 Grab Water
MW-4-W-090703 Grab Water
MW-5-W-090703 Grab Water
CS-2-W-090703 Grab Water**Lancaster Labs Number**5717041
5717042
5717043
5717044
5717045
5717046
5717047**METHODOLOGY**

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

ELECTRONIC CRA c/o Gettler-Ryan
COPY TO

Attn: Cheryl Hansen



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17603-2425 • 717-656-2300 Fax: 717-656-2861 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Marla S. Lord".

Marla S. Lord
Senior Specialist

Lancaster Laboratories Sample No. WW 5717041

 Group No. 1152276
CA

 QA-T-090703 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 QA

Collected: 07/03/2009

Account Number: 10904

 Submitted: 07/07/2009 09:10
Reported: 07/16/2009 at 09:20
Discard: 08/16/2009

 Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

6127Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B		GC/MS Volatiles		ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B		GC Volatiles		ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2116

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
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P091901AA	07/09/2009 15:35	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091901AA	07/09/2009 15:35	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09189D20A	07/09/2009 12:59	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 12:59	Tyler O Griffin	1

Lancaster Laboratories Sample No. WW 5717042

 Group No. 1152276
CA

 MW-1-W-090703 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-1

Collected: 07/03/2009 11:10 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

 6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 08/16/2009

61271

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	51	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,300	50	1

General Sample Comments

State of California Lab Certification No. 2116

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
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P091901AA	07/09/2009 16:02	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091901AA	07/09/2009 16:02	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09189D20A	07/09/2009 13:42	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 13:42	Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 18:14	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW 5717043

 Group No. 1152276
CA

 MW-2-W-090703 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-2

Collected: 07/03/2009 07:40 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Reported: 07/16/2009 at 09:20

Discard: 08/16/2009

Chevron

 6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61272

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
SW-846 6010B	Metals		ug/l	ug/l	
07044	Antimony	7440-36-0	N.D.	9.7	1
07035	Arsenic	7440-38-2	N.D.	7.2	1
07046	Barium	7440-39-3	28.1	0.60	1
07047	Beryllium	7440-41-7	N.D.	1.4	1
07049	Cadmium	7440-43-9	N.D.	2.0	1
07051	Chromium	7440-47-3	14.6	3.4	1
07052	Cobalt	7440-48-4	N.D.	2.1	1
07053	Copper	7440-50-8	N.D.	2.7	1
07055	Lead	7439-92-1	N.D.	6.9	1
07060	Molybdenum	7439-98-7	N.D.	4.9	1
07061	Nickel	7440-02-0	10.6	1.8	1
07036	Selenium	7782-49-2	N.D.	8.9	1
07066	Silver	7440-22-4	N.D.	2.3	1
07022	Thallium	7440-28-0	N.D.	14.0	1
07071	Vanadium	7440-62-2	12.6	2.5	1
07072	Zinc	7440-66-6	11.6	8.1	1
SW-846 7470A	Metals		ug/l	ug/l	
00259	Mercury	7439-97-6	N.D.	0.056	1

General Sample Comments

State of California Lab Certification No. 2116

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
06053	BTEX by 8260B	SW-846 8260B	1	P091893AA	07/08/2009 23:24	Kelly E Brickley	1

Lancaster Laboratories Sample No. WW 5717043

Group No. 1152276

MW-2-W-090703 Grab Water

CA

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-2

Collected: 07/03/2009 07:40 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310

Discard: 08/16/2009

San Ramon CA 94583

61272

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091893AA	07/08/2009 23:24	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09189D20A	07/09/2009 14:04	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 14:04	Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 18:35	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1
07044	Antimony	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07060	Molybdenum	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	091901848001	07/12/2009 23:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	091905713002	07/14/2009 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	091901848001	07/10/2009 14:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	091905713002	07/10/2009 14:49	James L Mertz	1

Lancaster Laboratories Sample No. WW 5717044

 Group No. 1152276
CA

 MW-3-W-090703 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-3

Collected: 07/03/2009 08:45 by JA

Account Number: 10904

 Submitted: 07/07/2009 09:10
 Reported: 07/16/2009 at 09:20
 Discard: 08/16/2009

 Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

61273

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06053	Benzene	71-43-2	1	0.5	1
06053	Ethylbenzene	100-41-4	2	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	310	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	170	50	1
SW-846 6010B	Metals		ug/l	ug/l	
07044	Antimony	7440-36-0	N.D.	9.7	1
07035	Arsenic	7440-38-2	N.D.	7.2	1
07046	Barium	7440-39-3	143	0.60	1
07047	Beryllium	7440-41-7	N.D.	1.4	1
07049	Cadmium	7440-43-9	N.D.	2.0	1
07051	Chromium	7440-47-3	8.5	3.4	1
07052	Cobalt	7440-48-4	N.D.	2.1	1
07053	Copper	7440-50-8	3.3	2.7	1
07055	Lead	7439-92-1	N.D.	6.9	1
07060	Molybdenum	7439-98-7	N.D.	4.9	1
07061	Nickel	7440-02-0	7.8	1.8	1
07036	Selenium	7782-49-2	N.D.	8.9	1
07066	Silver	7440-22-4	N.D.	2.3	1
07022	Thallium	7440-28-0	N.D.	14.0	1
07071	Vanadium	7440-62-2	13.8	2.5	1
07072	Zinc	7440-66-6	18.8	8.1	1
SW-846 7470A	Metals		ug/l	ug/l	
00259	Mercury	7439-97-6	N.D.	0.056	1

General Sample Comments

State of California Lab Certification No. 2116

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
06053	BTEX by 8260B	SW-846 8260B	1	P091893AA	07/08/2009 23:50	Kelly E Brickley	1

Lancaster Laboratories Sample No. WW 5717044

Group No. 1152276
CA

MW-3-W-090703 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-3

Collected: 07/03/2009 08:45 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310

Discard: 08/16/2009

San Ramon CA 94583

61273

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091893AA	07/08/2009 23:50	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09189D20A	07/09/2009 14:26	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 14:26	Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 17:53	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1
07044	Antimony	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07060	Molybdenum	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	091901848001	07/12/2009 23:52	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	091905713002	07/14/2009 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	091901848001	07/10/2009 14:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	091905713002	07/10/2009 14:49	James L Mertz	1

Lancaster Laboratories Sample No. WW 5717045

 Group No. 1152276
CA

MW-4-W-090703 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-4

Collected: 07/03/2009 09:40 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Reported: 07/16/2009 at 09:20

Discard: 08/16/2009

Chevron

 6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61274

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
SW-846 6010B	Metals		ug/l	ug/l	
07044	Antimony	7440-36-0	N.D.	9.7	1
07035	Arsenic	7440-38-2	N.D.	7.2	1
07046	Barium	7440-39-3	83.5	0.60	1
07047	Beryllium	7440-41-7	N.D.	1.4	1
07049	Cadmium	7440-43-9	N.D.	2.0	1
07051	Chromium	7440-47-3	10.0	3.4	1
07052	Cobalt	7440-48-4	N.D.	2.1	1
07053	Copper	7440-50-8	N.D.	2.7	1
07055	Lead	7439-92-1	N.D.	6.9	1
07060	Molybdenum	7439-98-7	N.D.	4.9	1
07061	Nickel	7440-02-0	4.5	1.8	1
07036	Selenium	7782-49-2	N.D.	8.9	1
07066	Silver	7440-22-4	N.D.	2.3	1
07022	Thallium	7440-28-0	N.D.	14.0	1
07071	Vanadium	7440-62-2	6.3	2.5	1
07072	Zinc	7440-66-6	15.8	8.1	1
SW-846 7470A	Metals		ug/l	ug/l	
00259	Mercury	7439-97-6	N.D.	0.056	1

General Sample Comments

State of California Lab Certification No. 2116

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
06053	BTEX by 8260B	SW-846 8260B	1	P091893AA	07/09/2009 00:44	Kelly E Brickley	1

Lancaster Laboratories Sample No. WW 5717045

Group No. 1152276

CA

MW-4-W-090703 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-4

Collected: 07/03/2009 09:40 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310

Discard: 08/16/2009

San Ramon CA 94583

61274

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091893AA	07/09/2009 00:44	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09189D20A	07/09/2009 14:48	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 14:48	Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 18:56	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1
07044	Antimony	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07060	Molybdenum	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07036	Seelenium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	091901848001	07/12/2009 23:57	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	091905713002	07/14/2009 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	091901848001	07/10/2009 14:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	091905713002	07/10/2009 14:49	James L Mertz	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-856-2300 Fax: 717-856-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5717046

Group No. 1152276
CA

MW-5-W-090703 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-5

Collected: 07/03/2009 10:30 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 08/16/2009

61275

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06053	Benzene	71-43-2	33	0.5	1
06053	Ethylbenzene	100-41-4	0.6	0.5	1
06053	Toluene	108-88-3	2	0.5	1
06053	Xylene (Total)	1330-20-7	3	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	930	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	110	50	1
SW-846 6010B	Metals		ug/l	ug/l	
07044	Antimony	7440-36-0	N.D.	9.7	1
07035	Arsenic	7440-38-2	32.7	7.2	1
07046	Barium	7440-39-3	148	0.60	1
07047	Beryllium	7440-41-7	N.D.	1.4	1
07049	Cadmium	7440-43-9	N.D.	2.0	1
07051	Chromium	7440-47-3	N.D.	3.4	1
07052	Cobalt	7440-48-4	N.D.	2.1	1
07053	Copper	7440-50-8	3.1	2.7	1
07055	Lead	7439-92-1	N.D.	6.9	1
07060	Molybdenum	7439-98-7	N.D.	4.9	1
07061	Nickel	7440-02-0	3.6	1.8	1
07036	Selenium	7782-49-2	N.D.	8.9	1
07066	Silver	7440-22-4	N.D.	2.3	1
07022	Thallium	7440-28-0	N.D.	14.0	1
07071	Vanadium	7440-62-2	N.D.	2.5	1
07072	Zinc	7440-66-6	19.2	8.1	1
SW-846 7470A	Metals		ug/l	ug/l	
00259	Mercury	7439-97-6	N.D.	0.056	1

General Sample Comments

State of California Lab Certification No. 2116

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
06053	BTEX by 8260B	SW-846 8260B	1	P091893AA	07/09/2009 01:11	Kelly E Brickley	1

Lancaster Laboratories Sample No. NW 5717046

 Group No. 1152276
CA

MW-5-W-090703 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-5

Collected: 07/03/2009 10:30 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310

Discard: 08/16/2009

San Ramon CA 94583

61275

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091893AA	07/09/2009 01:11	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09169D20A	07/09/2009 15:09	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09189D20A	07/09/2009 15:09	Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 19:16	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1
07044	Antimony	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07060	Molybdenum	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	091901848001	07/13/2009 00:01	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	091905713002	07/14/2009 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	091901848001	07/10/2009 14:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	091905713002	07/10/2009 14:49	James L Mertz	1

Lancaster Laboratories Sample No. WW 5717047

 Group No. 1152276
CA

 CS-2-W-090703 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 CS-2

Collected: 07/03/2009 11:25 by JA

Account Number: 10904

Submitted: 07/07/2009 09:10

Chevron

Reported: 07/16/2009 at 09:20

6001 Bollinger Canyon Rd L4310

Discard: 08/16/2009

San Ramon CA 94583

127C2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8015B	GC Extractable TPH w/Si Gel		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2116

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
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P091901AA	07/09/2009 16:28	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P091901AA	07/09/2009 16:28	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09190A20A	07/09/2009 23:02	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09190A20A	07/09/2009 23:02	Fanella S Zamcho	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	091880021A	07/08/2009 19:37	Diane V Do	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	091880021A	07/08/2009 03:00	Tracy L Schickel	1

Quality Control Summary

 Client Name: Chevron
 Reported: 07/16/09 at 09:20 AM

Group Number: 1152276

Matrix QC may not be reported if 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>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: P091893AA	Sample number(s): 5717043-5717046							
Benzene	N.D.	0.5	ug/l	95	97	80-116	1	30
Ethylbenzene	N.D.	0.5	ug/l	94	95	80-113	1	30
Toluene	N.D.	0.5	ug/l	92	93	80-115	1	30
Xylene (Total)	N.D.	0.5	ug/l	93	94	81-114	0	30
Batch number: P091901AA	Sample number(s): 5717041-5717042, 5717047							
Benzene	N.D.	0.5	ug/l	99	98	80-116	1	30
Ethylbenzene	N.D.	0.5	ug/l	97	97	80-113	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	105	106	78-117	0	30
Toluene	N.D.	0.5	ug/l	95	94	80-115	1	30
Xylene (Total)	N.D.	0.5	ug/l	96	97	81-114	1	30
Batch number: 09189D20A	Sample number(s): 5717041-5717046							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	127	118	75-135	7	30
Batch number: 09190A20A	Sample number(s): 5717047							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	118	75-135	0	30
Batch number: 091880021A	Sample number(s): 5717042-5717047							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	101	96	60-124	5	20
Batch number: 091901848001	Sample number(s): 5717043-5717046							
Antimony	N.D.	9.7	ug/l	102		88-111		
Arsenic	N.D.	7.2	ug/l	102		80-120		
Barium	N.D.	0.60	ug/l	99		90-110		
Beryllium	N.D.	1.4	ug/l	97		90-112		
Cadmium	N.D.	2.0	ug/l	98		90-112		
Chromium	N.D.	3.4	ug/l	99		90-110		
Cobalt	N.D.	2.1	ug/l	101		90-110		
Copper	N.D.	2.7	ug/l	101		90-112		
Lead	N.D.	6.9	ug/l	98		80-120		
Molybdenum	N.D.	4.9	ug/l	102		90-110		
Nickel	N.D.	1.8	ug/l	99		90-111		
Selenium	N.D.	8.9	ug/l	100		80-120		
Silver	N.D.	2.3	ug/l	104		83-120		
Thallium	N.D.	14.0	ug/l	98		85-113		
Vanadium	N.D.	2.5	ug/l	103		90-110		
Zinc	N.D.	8.1	ug/l	98		90-111		
Batch number: 091905713002	Sample number(s): 5717043-5717046							
Mercury	N.D.	0.056	ug/l	98		80-120		

*- Outside of specification

- (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
 Reported: 07/16/09 at 09:20 AM

Group Number: 1152276

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P091893AA	Sample number(s): 5717043-5717046 UNSPK: 5717044							
Benzene	100		80-126					
Ethylbenzene	98		77-125					
Toluene	97		80-125					
Xylene (Total)	99		79-125					
Batch number: P091901AA	Sample number(s): 5717041-5717042, 5717047 UNSPK: P717128							
Benzene	106		80-126					
Ethylbenzene	104		77-125					
Methyl Tertiary Butyl Ether	108		72-126					
Toluene	102		80-125					
Xylene (Total)	103		79-125					
Batch number: 09189D20A	Sample number(s): 5717041-5717046 UNSPK: P717103							
TPH-GRO N. CA water C6-C12	52*		63-154					
Batch number: 09190A20A	Sample number(s): 5717047 UNSPK: 5717047							
TPH-GRO N. CA water C6-C12	118		63-154					
Batch number: 091901848001	Sample number(s): 5717043-5717046 UNSPK: P716114 BKG: P716114							
Antimony	105	106	87-122	1	20	N.D.	N.D.	0 (1) 20
Arsenic	106	108	75-125	3	20	N.D.	N.D.	0 (1) 20
Barium	98	101	78-118	2	20	38.8	37.7	3 20
Beryllium	98	102	87-114	4	20	N.D.	N.D.	0 (1) 20
Cadmium	96	99	83-116	3	20	N.D.	N.D.	0 (1) 20
Chromium	100	103	81-120	4	20	8.8	7.9	12 (1) 20
Cobalt	97	100	87-112	2	20	N.D.	N.D.	0 (1) 20
Copper	102	105	86-122	4	20	3.2	2.9	9 (1) 20
Lead	98	100	75-125	1	20	N.D.	N.D.	0 (1) 20
Molybdenum	104	106	89-112	2	20	N.D.	N.D.	0 (1) 20
Nickel	96	97	86-115	2	20	7.1	6.2	12 (1) 20
Selenium	100	102	75-125	2	20	N.D.	N.D.	0 (1) 20
Silver	105	109	75-125	3	20	N.D.	N.D.	0 (1) 20
Thallium	95	98	83-116	3	20	N.D.	N.D.	0 (1) 20
Vanadium	104	108	90-111	4	20	7.8	6.9	13 (1) 20
Zinc	100	102	85-117	2	20	N.D.	N.D.	0 (1) 20
Batch number: 091905713002	Sample number(s): 5717043-5717046 UNSPK: 5717043 BKG: 5717043							
Mercury	114	101	80-120	12	20	N.D.	N.D.	0 (1) 20

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: BTEX by 8260B

Batch number: P091893AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

*- Outside of specification

- (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
 Reported: 07/16/09 at 09:20 AM

Group Number: 1152276

Surrogate Quality Control

5717043	90	91	90	89
5717044	90	90	91	91
5717045	90	91	91	90
5717046	90	92	91	90
Blank	90	92	91	90
LCS	92	95	90	90
LCSD	91	94	91	90
MS	91	93	91	90
<hr/>				
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: P091901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5717041	94	88	90	91
5717042	94	92	91	93
5717047	94	92	90	92
Blank	94	91	90	90
LCS	93	94	91	93
LCSD	93	92	91	93
MS	95	94	90	92
<hr/>				
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: TPH-GRO N. CA water C6-C12
 Batch number: 09189D20A

	Trifluorotoluene-F
5717041	106
5717042	104
5717043	103
5717044	106
5717045	103
5717046	121
Blank	103
LCS	131
LCSD	130
MS	123
<hr/>	
Limits:	63-135

 Analysis Name: TPH-GRO N. CA water C6-C12
 Batch number: 09190A20A

	Trifluorotoluene-F
5717047	103
Blank	103
LCS	132
LCSD	134
MS	130
<hr/>	
Limits:	63-135

 Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
 Batch number: 091880021A
 Orthoterphenyl

*- Outside of specification

- (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
Reported: 07/16/09 at 09:20 AM

Group Number: 1152276

Surrogate Quality Control

5717042	114
5717043	102
5717044	108
5717045	101
5717046	112
5717047	101
Blank	100
LCS	116
LCSD	109

Limits: 59-131

*- Outside of specification

- (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.

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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		
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.		

U.S. EPA data qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is <CRDL, but ≥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 amount not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
J Estimated value	U Compound was not detected
N Presumptive evidence of a compound (TICs only)	W Post digestion spike out of control limits
P Concentration difference between primary and confirmation columns >25%	* Duplicate analysis not within control limits
U Compound was not detected	+ Correlation coefficient for MSA <0.995
X,Y,Z Defined in case narrative	

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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