Carryl MacLeod
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
CMacleod@chevron.com

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By Alameda County Environmental Health 2:14 pm, Sep 08, 2015

September 4, 2015

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Site Investigation Report* for former Chevron-branded service station 92029, located at 890 West MacArthur Boulevard in Oakland, California (**Case #:** RO0002438). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 or travis.flora@stantec.com.

Sincerely,

Carryl MacLeod

Carryl MacLeod
Project Manager

Site Investigation Report

Former Chevron-branded
Service Station 92029
890 West MacArthur Boulevard
Oakland, California
Case #: RO0002438

Prepared for:
Chevron Environmental
Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, CA 95032

September 4, 2015

Sign-off Sheet

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Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by
(signature)

Marisa Kaffenberger
Senior Engineer

Reviewed by
(signature)

Travis L. Flora
Associate Project Manager

Reviewed by
(signature)

Patrick H. Vaughan, MS, CEM, REA II
Principal-National SME, Vapor Intrusion

Reviewed by
(signature)

Gary P. Messerotes, P.G.
Senior Geologist

PROFESSIONAL GEOLOGIST
GARY P. MESSEROTES
No. 5806
exp. 07/31/16
STATE OF CALIFORNIA

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1.0 INTRODUCTION

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit this *Site Investigation Report* for former Chevron-branded service station 92029, which was located at 890 West MacArthur Boulevard, Oakland, Alameda County, California (Site; shown on **Figure 1**).

1.1 PURPOSE

The purpose of this investigation was to evaluate the lateral extent of petroleum hydrocarbons in soil and groundwater and determine if the Site meets the media-specific criteria set forth in the State Water Resources Control Board (SWRCB) Low-Threat Underground Storage Tank (UST) Case Closure Policy (LTCP) (SWRCB, 2012a). Stantec submitted a *Work Plan Addendum* on June 11, 2014 (Stantec, 2014), which was approved by Alameda County Environmental Health (ACEH) in a letter dated July 9, 2014. Additionally, ACEH approved extensions on the site investigation report in correspondence dated August 21 and November 7, 2014, and February 26, April 8, and June 22, 2015. On August 31, 2015, a letter was submitted to ACEH requesting a brief extension to September 4, 2015, to allow additional time for technical peer review. Copies of the ACEH correspondence are included in **Appendix A**.

1.2 SCOPE

The scope of work performed during this investigation included advancement of five on-Site soil borings (SB-11 through SB-15) and five off-Site soil borings (SB-17 through SB-21) and collection of soil and grab groundwater samples. Locations of the soil borings are shown on **Figure 2**.
An additional off-Site soil boring (SB-16) was proposed in the *Work Plan Addendum*; however, the off-Site property was unresponsive to communication regarding establishment of an access agreement, so boring SB-16 was not advanced. As requested by ACEH in a meeting with Stantec and Chevron on April 22, 2015, an updated sensitive receptor survey was also conducted, which included updated water well, surface water body, conduit, and sensitive population surveys, and a neighborhood survey to locate any sumps, basements, or additional water wells near the Site.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION AND LAND USE

The Site is a former Chevron-branded service station located on the northeast corner at the intersection of West MacArthur Boulevard and Market Street in Oakland, California. The Site is currently a vacant lot. A former Chevron-branded service station operated at the Site from approximately 1956 to 2004. Prior to 1970, Site features consisted of two 5,000-gallon and one 3,000-gallon gasoline USTs located in the eastern portion of the Site, three fuel dispenser islands (one located in the northwestern portion of the Site and two located in the central portion of the Site), associated product piping, a station building with two hydraulic hoists, and a waste oil UST (unknown size) located in the northern portion of the Site. The product piping was replaced in 1970, and the 3,000-gallon UST was replaced with a 10,000-gallon UST sometime before 1978. In 1982, the two 5,000-gallon and one 10,000-gallon USTs were replaced with three 10,000-gallon fiberglass USTs.

In 1984, the service station building was demolished, the hydraulic hoists were removed, and a kiosk was installed near the center of the Site. In addition, the three fuel dispenser islands were removed from the Site and replaced with five fuel dispenser islands (two located in the north-central portion of the Site and three located in the south-central portion of the Site). The fuel dispenser islands were replaced and the USTs were upgraded in 1997. The waste oil UST was removed from the Site sometime between 1984 and 1997. In 2005, the service station was closed and all Site structures, including the three 10,000-gallon fiberglass USTs and fuel dispenser islands, were removed. Extensive over-excavation was performed at that time, and approximately 5,135 tons of impacted soil and 25,500 gallons of groundwater were removed and disposed of off Site (Conestoga-Rovers & Associates [CRA], 2011). A Site Plan is shown on **Figure 2**.

As discussed in a project meeting with representatives from ACEH, Chevron, Stantec, and the on-Site property owner held on May 8, 2014, the on-Site property owner is pursuing redevelopment of the Site as a residential housing complex. Based on building plans for the proposed redevelopment, the footprint of the proposed building based on foundation dimensions is shown on **Figure 2**. Maximum depths of the foundation in feet below ground surface (bgs) are also shown on this figure.

Land use near the Site consists of a mixture of commercial and residential properties. The Site is currently zoned as RU-5 (Urban Residential Zone – 5). The Site is bounded to the north by a residential area, on the west by Market Street followed by a small grocery store and associated parking, on the south by West MacArthur Boulevard followed by a tire sales and service shop, and to the east by a small hotel.

2.2 REGIONAL AND SITE GEOLOGY AND HYDROGEOLOGY

Based on previous Site assessment activities and available boring logs, the subsurface beneath the Site outside the limits of excavation consists primarily of clay containing varying amounts of silt, sand, and gravel to approximately 21 to 22 feet bgs, underlain by well and poorly graded sands to the total depth explored of 25 feet bgs. Silt, clay, sand, and gravel mixtures were observed off Site to a total logged depth of 34 feet bgs (Stantec, 2013).

A Site Plan showing cross-section locations is included as **Figure 2**. Generalized geologic cross-sections A-A' and B-B' are shown on **Figure 3** and **Figure 4**, respectively. These cross-sections show Site lithology, first encountered groundwater during drilling, the most recent depth-to-groundwater (DTW) data in Site wells, discrete soil sample depths, photoionization detector (PID) readings measured in parts per million (ppm), and benzene, ethylbenzene, and naphthalene analytical results for select soil and groundwater samples collected during current and historical assessments.

The historical range of DTW measurements is approximately 3 to 13 feet below top of casing (TOC). During Second Quarter 2015, DTW measurements ranged from 7.08 to 11.79 feet below TOC and the direction of groundwater flow at the time of sampling was generally towards the southwest at an average hydraulic gradient of approximately 0.032 feet per foot (ft/ft). This is generally consistent with the historical direction of groundwater flow (Stantec, 2015).

2.3 PREVIOUS INVESTIGATIONS AND REMEDIATION

Current and historical soil analytical data are summarized in **Table 1** and **Table 2**. Current and historical groundwater analytical data are summarized in **Table 3** through **Table 6**. Locations of borings and wells are shown on **Figure 2**.

As reported in CRA's *Additional Investigation Report* dated March 31, 2011, product piping was replaced in 1970, and a 3,000-gallon gasoline UST was replaced with a 10,000-gallon gasoline UST sometime before 1978 (CRA, 2011). An original report describing these activities could not be found and it is unknown if soil sampling or excavation of impacted soil, if present, was conducted at that time.

As reported in Cambria's *Subsurface Investigation Report* dated May 25, 2006, in April 1981, Smith & Denison conducted tank integrity tests at the Site. Test results indicated the USTs were corroded; however, no holes were observed along the surface of the tanks. Two on-Site soil borings were advanced to a total depth of 12 feet bgs. Two soil samples were collected from each boring and petroleum hydrocarbons were detected in three of the four soil samples collected. Groundwater was encountered in one boring at approximately 12 feet bgs (Cambria Environmental Technology, Inc. [Cambria], 2006a). An original report describing these activities could not be found.

As reported in Gettler-Ryan's (G-R) *Environmental Investigation Report* dated October 31, 2000, and in CRA's *Additional Investigation Report* dated March 31, 2011, in March and April 1982, product piping, two 5,000 gallon steel gasoline USTs, and one 10,000-gallon fiberglass UST were replaced with three 10,000-gallon fiberglass USTs. The new USTs were installed in the former UST pit, which was extended to the east to accommodate the larger tanks (G-R, 2000; CRA, 2011). An original report describing these activities could not be found, and it is unknown if soil sampling or excavation of impacted soil, if present, was conducted.

As reported in CRA's *Additional Investigation Report* dated March 31, 2011, in 1984, two hydraulic hoists were removed from the Site and three fuel dispenser islands (one located in the northwestern portion of the Site and two located in the central portion of the Site) were removed and replaced with five fuel dispenser islands (two located in the north-central portion of the Site and three located in the south-central portion of the Site) (CRA, 2011). An original report describing these activities could not be found, and it is unknown if soil sampling or excavation of impacted soil, if present, was conducted.

Between 1984 and 1997, the waste oil UST (unknown size) was removed from the Site (CRA, 2011). An original report describing these activities could not be found, and it is unknown if soil sampling or excavation of impacted soil, if present, was conducted.

In March 1991, a strong petroleum hydrocarbon odor was noticed in the service station building. Subsequently, Environmental Health Consultants conducted ambient air monitoring at the Site. Sampling results indicated that petroleum hydrocarbons were present in air and were entering the service station from the crawl space beneath the building. PID readings averaged between 100 and 150 ppm and the maximum PID reading was reported at 505 ppm. Laboratory analytical results indicated the presence of total petroleum hydrocarbons as gasoline range organics (TPH-GRO) in air at approximately 100 ppm and benzene at less than 1 ppm (CRA, 2011).

In February 1997, G-R oversaw replacement of the fuel dispenser islands and gasoline UST upgrades. During replacement of the fuel dispenser islands, soil in the immediate vicinity of each dispenser island was excavated. Each excavation was approximately 12 feet long, 10 feet wide, and 2.5 feet deep (approximately 11 cubic yards). Five soil samples (S1 through S5) were collected from the bottom of the dispenser island excavations at approximately 3 feet bgs. In addition, one soil sample (S6) was collected from the northern sidewall of the gasoline UST pit at approximately 3 feet bgs. Maximum concentrations of TPH-GRO, benzene, and methyl *tertiary*-butyl ether (MtBE) in these samples (38 milligrams per kilogram [mg/kg], 0.63 mg/kg, and 0.62 mg/kg, respectively) were detected in soil sample S5. Approximately 162 cubic yards of soil and 7,800 gallons of groundwater were removed during these activities and disposed of off Site (G-R, 1997).

In October 2000, G-R oversaw advancement of ten on-Site soil borings (B-1 through B-10) to total depths ranging from 16.5 to 19 feet bgs. Petroleum hydrocarbons were not detected above method detection limits (MDLs) in any of the soil samples collected from borings B-4 through B-8.

Maximum concentrations of TPH-GRO, benzene, and MtBE in soil collected from the remaining borings (930 mg/kg, 6.7 mg/kg, and 13 mg/kg, respectively) were detected in boring B-3 at 11 feet bgs. Maximum concentrations of TPH-GRO and benzene in grab groundwater (33,000 micrograms per liter [µg/L] and 1,200 µg/L, respectively) were detected in the sample collected from boring B-3 at 13.1 feet bgs, while the maximum concentration of MtBE (820 µg/L) was detected in boring B-1 at 13.1 feet bgs (G-R, 2000).

In March 2002, G-R oversaw installation of four on-Site groundwater monitoring wells (MW-1 through MW-4) to a total depth of 25 feet bgs. Petroleum hydrocarbons were not detected above MDLs in any of the soil samples collected from boreholes MW-1 and MW-2. Maximum concentrations of TPH-GRO and benzene in soil collected from the remaining boreholes (240 mg/kg and 0.22 mg/kg, respectively) were detected in borehole MW-3 at 4.5 and 14.5 feet bgs, respectively. MtBE was only detected in the sample collected from borehole MW-4 at 4 feet bgs, at a concentration of 0.23 mg/kg (G-R, 2002).

In April 2005, the service station was demolished and the gasoline USTs, fuel dispenser islands, and associated product piping were removed. During removal of the gasoline USTs, five soil samples (EX1 through EX5) were collected from the sidewalls of the gasoline UST excavation at approximately 10 feet bgs. Of these samples, petroleum hydrocarbons were only detected in soil sample EX2, where a TPH-GRO concentration of 1.8 mg/kg was observed. Benzene and MtBE were not detected above MDLs in soil sample EX2. During removal of the fuel dispenser islands and product piping, 17 soil samples (EX6 through EX22) were collected from the bottom of the dispenser island and product piping excavations at approximately 3.5 feet bgs. The maximum concentration of TPH-GRO in these samples (370 mg/kg) was detected in soil sample EX17, while the maximum concentration of benzene (0.35 mg/kg) was detected in soil sample EX22. MtBE was only detected in soil sample EX21, at a concentration of 0.37 mg/kg (Cambria, 2005a).

In April and May 2005, the majority of the Site, including the area around the former USTs and fuel dispenser islands, was over-excavated to a depth of 12 feet bgs. During excavation, 41 confirmation soil samples (EX23 through EX63) were collected from the bottom and sidewalls of the excavation. Soil samples EX23, EX36, EX37, EX39, EX47, EX50, EX51, EX55, EX56, EX59, EX60, EX62, and EX63 were sidewall samples, while the remainder of soil samples were bottom samples. The soil represented by samples collected from the bottom of the excavation at depths shallower than 12 feet bgs was removed during excavation. This includes soil represented by samples EX24 through EX31, EX42, EX43, EX44, EX49, EX52, and EX54. In addition, the soil represented by previously collected samples S1 through S5, EX2, EX3, EX4, and EX6 through EX22 and borings B-1, B-2, B-3, B-7, B-9, and B-10 was removed. The maximum concentration of TPH-GRO in soil that wasn't removed (450 mg/kg) was detected in soil sample EX36 at a depth of 9 feet bgs, while maximum concentrations of benzene and MtBE (0.66 mg/kg and 0.21 mg/kg, respectively) were detected in soil sample EX38 at 12 feet bgs. Approximately 5,134 tons of soil and 25,486 gallons of groundwater were removed during excavation activities and disposed of off Site (Cambria, 2005b).

In March 2006, Cambria advanced seven off-Site borings (SB-1 through SB-7) and two on-Site borings (SB-8 and SB-9) to total depths ranging from 16 to 44 feet bgs. Soil samples were not collected for laboratory analysis during this investigation. Maximum concentrations of TPH-GRO and benzene in grab groundwater (2,700 µg/L and 34 µg/L, respectively) were detected in boring SB-2 at a depth of 20 feet bgs, while the maximum concentration of MtBE (210 µg/L) was detected in boring SB-9 at 23 feet bgs (Cambria, 2006a).

In September 2006, Cambria oversaw the destruction of wells MW-1 through MW-4 to facilitate planned Site redevelopment (Cambria, 2006b). This redevelopment did not occur.

In July 2008, CRA oversaw installation of four off-Site monitoring wells (MW-5 through MW-8) to a total depth of 25 feet bgs. Petroleum hydrocarbons were not detected above MDLs in any of the soil samples collected from borehole MW-8. The maximum concentration of TPH-GRO in soil in the remaining boreholes (260 mg/kg) was detected in borehole MW-5 at 5 feet bgs, the maximum concentration of benzene (0.21 mg/kg) was detected in borehole MW-7 at 10 feet bgs, and the maximum concentration of MtBE (0.07 mg/kg) was detected in borehole MW-6 at 10 feet bgs (CRA, 2008).

In January 2011, CRA advanced one off-Site soil boring (SB-10) to a total depth of 20 feet bgs. TPH-GRO and MtBE were not detected above MDLs in any of the soil samples collected during this investigation. Benzene was only detected in the soil sample collected from 19.5 feet bgs, at a concentration of 0.0006 mg/kg. TPH-GRO and benzene were not detected above MDLs in the groundwater sample collected from the boring (collected by installing a temporary well casing in the boring and using low-flow sampling procedures), while MtBE was detected at a concentration of 4 µg/L (CRA, 2011).

3.0 SITE INVESTIGATION

On February 25, 26, 27, and March 5, 2015, Stantec oversaw the advancement of five on-Site soil borings (SB-11 through SB-15) and five off-Site soil borings (SB-17 through SB-21) to further define the lateral extent of petroleum hydrocarbons in soil and groundwater and evaluate whether the Site meets the media-specific criteria set forth in the LTCP. Soil and grab groundwater samples were collected from each soil boring. A Site Plan showing the soil boring locations is included as **Figure 2**.

3.1 PRELIMINARY FIELD ACTIVITIES

3.1.1 Permitting and Notifications

A drilling permit was obtained from ACEH to advance the soil borings. An encroachment permit was obtained from the City of Oakland Planning and Building Department to perform drilling activities in the public right-of-way. A Traffic Control Plan was prepared and implemented according to the guidelines established in the encroachment permit.

As required by law, Underground Service Alert (USA) - North was notified at least 48 hours prior to any intrusive activities. In addition to notifying USA - North, Stantec retained the service of a private utility locating contractor to determine if underground utilities were located near the proposed soil boring locations.

3.1.2 Health and Safety Plan

Stantec generated a Site-specific health and safety plan (HASP) as required by the State of California General Industry Safety Order 5192 and Title 29 of the Code of Federal Regulations, Section 1910.120. The HASP outlined potential hazards to Stantec personnel during the field activities described herein. Job safety analyses (JSAs) for tasks to be performed by Stantec personnel (e.g., driving, oversight of boring advancement, sample collection, etc.) were included. The HASP also included details regarding required personal protective equipment to be worn by all Stantec field personnel for each task. In addition, Stantec produced a Journey Management Plan (JMP) in an attempt to prevent motor vehicle incidents driving to and from the Site. A copy of Stantec's HASP and JMP were available on-Site during all field activities.

Subcontractors also developed Site-specific HASPs and JSAs for tasks applicable to their scope of work (e.g., driving, advancing soil borings, etc.). Appropriate subcontractor HASPs were also available on Site.

3.2 SOIL INVESTIGATION

3.2.1 Soil Boring Advancement

Stantec contracted National Exploration, Wells, & Pumps (National), a C-57 California State-licensed drilling company from Richmond, California to advance soil borings SB-11 through SB-15 and SB-17 through SB-21.

The work was performed under the direction of a State of California Professional Geologist. Stantec field personnel recorded details of field activities, such as Site conditions, sampling processes, names of field personnel, and pertinent dates and times.

Each boring was hand augered to 8 feet bgs to clear for potentially undetected subsurface utilities. Borings SB-11, SB-12, SB-14, SB-15, and SB-17 through SB-21 were further advanced to total depths ranging from 9.4 to 12.5 feet bgs using only a hand auger. Boring SB-20 could not be advanced beyond 9.4 feet bgs due to refusal at that depth. Boring SB-13 was advanced beyond 8 feet bgs to a total depth of 16 feet bgs using a direct-push drill rig.

3.2.2 Soil Sampling

All soil samples collected from borings SB-11, SB-12, SB-14, SB-15, and SB-17 through SB-21 were collected using a slide hammer fitted with a stainless steel or brass sample sleeve. Soil samples were collected at depths of 2.5, 5, 7.5, and 10 feet bgs from borings SB-11, SB-12, SB-14, SB-15, SB-17, SB-18, SB-19, and SB-21, while samples were only collected at 2.5, 5, and 7.5 feet bgs from boring SB-20 due to refusal at 9.4 feet bgs. The soil sample collected above 8 feet bgs in boring SB-13 (at 2.5 feet bgs) was also collected using a slide hammer fitted with a stainless steel or brass sample sleeve. There was no recovery in boring SB-13 for soil sample collection at depths of 5, 7.5, and 10 feet bgs because the boring was advanced within fill.

Below 8 feet bgs in boring SB-13, soil cores were collected in acetate sleeves, and soil samples were cut at approximately 6 inches from the bottom of the core sleeve and covered with Teflon® end sheets and plastic end caps. Additional soil samples were collected from boring SB-13 at depths of 14 and 14.5 feet bgs.

Following their collection, all soil samples were labeled, placed in an ice-filled cooler, and logged on a chain-of-custody form for transport to the certified analytical laboratory.

Portions of each soil core were logged by Stantec field personnel for lithological content using the Unified Soil Classification System (USCS) as a guide and for relative moisture content, composition, PID readings, and other notable field observations. Portions of the soil cuttings were placed in Ziploc® bags and field-screened using a PID to evaluate the presence of volatile organic compound (VOCs) that may have collected in the headspace of the bag. Boring logs are included in **Appendix B**.

3.2.3 Soil Boring Completion Activities

After each soil boring was advanced to its total depth and representative soil and grab groundwater samples were collected, each soil boring was completed to ground surface with cement grout. The cement grout consisted of approximately 95 percent Portland cement and 5 percent bentonite powder.

3.2.4 Subsurface Conditions

Soils encountered beneath the Site consisted primarily of clay containing varying amounts of silt, sand, and gravel to the total depth explored. This is consistent with materials previously encountered beneath the Site. Groundwater was encountered in all borings advanced during this investigation, and first-encountered DTW levels ranged from approximately 7 feet bgs in borings SB-15 and SB-17 to 10.5 feet bgs in boring SB-19. Static groundwater levels ranged from approximately 5.6 feet bgs in boring SB-12 to 10.65 feet bgs in boring SB-21. Elevated PID readings (above 100 ppm) were only observed in the sample collected from boring SB-18 at 7.5 feet bgs (concentration of 145 ppm). Soil boring logs are included in **Appendix B**.

3.2.5 Soil Analytical Results

All soil samples were transported and submitted under chain-of-custody protocol to Eurofins Lancaster Laboratories, Inc. (Lancaster), a State of California-certified analytical laboratory, and analyzed for the following constituents of concern:

- TPH-GRO by United States Environmental Protection Agency (US EPA) Method 8015B modified (SW-846); and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), MtBE, di-isopropyl ether (DIPE), ethyl *tertiary*-butyl ether (EtBE), *tertiary*-amyl methyl ether (TAME), *tertiary*-butyl alcohol (TBA), ethanol, and naphthalene by US EPA Method 8260B (SW-846).

Current soil sample analytical results are included in **Table 1**. Complete certified laboratory analysis reports and chain-of-custody documentation are included in **Appendix C**. Soil analytical results are compared to California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs) for residential land use (RWQCB, 2013).

Soil collected from boring SB-13 exceeded the ESL for MtBE at 14.5 feet bgs; soil collected from boring SB-15 exceeded ESLs for benzene, ethylbenzene, total xylenes, and naphthalene at 10 feet bgs; and soil collected from boring SB-18 exceeded ESLs for TPH-GRO and benzene at 7.5 feet bgs and benzene and ethylbenzene at 10 feet bgs. All other concentrations in borings SB-13, SB-15, and SB-18, and all concentrations in borings SB-11, SB-12, SB-14, SB-17, SB-19, SB-20, and SB-21 were below or equal to MDLs or ESLs.

Historical soil analytical results are included in **Table 2**. Based on current and historical soil analytical data, the lateral extent of petroleum hydrocarbons in soil is defined by petroleum

hydrocarbon concentrations below MDLs or ESLs in soil that was not previously excavated. The lateral extent appears defined to the north and east by boreholes MW-1 and MW-2, borings B-4, B-5, B-6, and B-8, and soil samples S6, EX1, and EX5; and to the south and west by borehole MW-8 and borings B-10, SB-10, SB-11, SB-12, SB-19, SB-20, and SB-21. The lateral extent of petroleum hydrocarbons in soil appears adequately defined in all directions.

3.3 GROUNDWATER INVESTIGATION

3.3.1 Grab Groundwater Sampling

Stantec collected grab groundwater samples from each soil boring following advancement and installation of a temporary pre-packed groundwater monitoring well casing. A 3/4-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 0.010-inch slots was inserted directly into each boring. During groundwater sampling, DTW measurements were collected and used to calculate the three casing volumes that would be removed from each boring prior to collecting grab groundwater samples using disposable bailers. Due to slow recovery, three volumes of groundwater could not be removed from any of the borings prior to collecting grab groundwater samples. During the groundwater purging process, groundwater quality parameters, including temperature, pH, conductivity, and oxidation-reduction potential (ORP) were recorded. With slow recovery, multiple parameter readings were not obtained from all borings. Groundwater samples were collected in sample containers appropriate for the specified analyses, then sealed, labeled, and placed into an ice-filled cooler for preservation. Groundwater sample collection field data sheets are included in **Appendix D**.

3.3.2 Grab Groundwater Analytical Results

All grab groundwater samples were transported and submitted under chain-of-custody protocol to Lancaster and analyzed for the following constituents of concern:

- TPH-GRO by US EPA Method 8015B (SW-846); and
- BTEX compounds, MtBE, DIPE, EtBE, TAME, TBA, ethanol, and naphthalene by US EPA Method 8260B (SW-846).

Current grab groundwater sample analytical results are included in **Table 3**. Complete certified laboratory analysis reports and chain-of-custody documentation are included in **Appendix C**. Groundwater analytical results are compared to RWQCB ESLs for groundwater that is a current or potential source of drinking water (RWQCB, 2013). Concentrations were detected above ESLs for one or more of the constituents analyzed in groundwater samples collected from borings SB-11, SB-12, SB-14, SB-15, SB-17, SB-18, and SB-19.

Historical grab groundwater sample analytical results are included in **Table 4**. Current and historical groundwater analytical results for monitoring wells are included in **Table 5** and **Table 6**. Figures showing the lateral extent of dissolved-phase petroleum hydrocarbon concentrations using combined current and historical data are included for TPH-GRO, benzene, and MtBE on

Figure 5, **Figure 6**, and **Figure 7**, respectively. Each of these figures includes a contour line surrounding most recent detections in active and destroyed monitoring wells and current and historical grab groundwater samples collected from soil borings. This conservative approach in evaluating plume definition and estimating plume length was selected because some of the data from destroyed monitoring wells and historical soil borings is relatively old (as much as 15 years), and many of the samples were collected as grab groundwater samples, which can exhibit concentrations as much as one order of magnitude higher than those from a monitoring well sample. When drawing these contour lines, the collection method and age of the samples were considered.

The dissolved-phase TPH-GRO plume appears to be defined by concentrations below MDLs in well MW-8, former wells MW-1 and MW-2, and borings B-2, B-4, B-5, B-6, B-8, SB-1, SB-3, SB-6, SB-9, SB-10, SB-13, SB-20, and SB-21. The dissolved-phase benzene plume appears to be defined by concentrations below MDLs in well MW-8, former wells MW-1 and MW-2, and borings B-2, B-4 through B-8, SB-1, SB-6, SB-8, SB-10 through SB-13, SB-17, SB-19, SB-20, and SB-21. The dissolved-phase MtBE plume appears to be defined by concentrations below MDLs in wells MW-5 and MW-8, former wells MW-1 and MW-2, and borings SB-1, SB-3, SB-6, SB-11, SB-14, SB-17, SB-19, SB-20, and SB-21.

Although TPH-GRO and MtBE were detected in the grab groundwater sample collected from historical boring SB-5, and benzene was detected in the grab groundwater samples collected from historical borings SB-3 and SB-5 (all collected in 2006), more recent data from well MW-8 are below MDLs, indicating the plume is no longer present in that area. In addition, benzene was most recently detected in well MW-5 at 1 µg/L, but this concentration is equal to the ESL for benzene. MtBE was also detected in the historical grab groundwater sample collected from down-gradient boring SB-10 at a concentration of 4 µg/L; however, this concentration is below the ESL for MtBE of 5 µg/L. Based on the current and historical data, the dissolved-phase petroleum hydrocarbon plume associated with the Site appears adequately delineated in all directions.

The SWRCB LTCP references the *Technical Justification for Groundwater Media-Specific Criteria*, final dated April 24, 2012 (SWRCB, 2012b), which is used to supplement and provide technical justification on possible dissolved-phase plume lengths. This document provides average, 90th percentile, and maximum dissolved-phase plume lengths for TPH-GRO, benzene, and MtBE at any given site. Plumes using these specified lengths are also shown on **Figure 5**, **Figure 6**, and **Figure 7** for comparison to locations with observed detectable concentrations and to show the extent of the dissolved-phase plume in the absence of down-gradient control points. These hypothetical plumes slightly differ in direction from the observed plumes described above, because they are based on the predominant direction of groundwater flow from the source and not soil boring/well locations and concentrations. Though the plumes slightly differ in direction, it appears that the average plume lengths for TPH-GRO, benzene, and MtBE (248, 198, and 317 feet, respectively) are similar in length to, although slightly shorter, than the plume lengths drawn using soil boring/well locations and concentrations. To be conservative, the 90th

percentile plume lengths for TPH-GRO, benzene, and MtBE (413, 350, and 545 feet, respectively) will be used in the LTCP evaluation of groundwater (Section 5.2.1).

3.4 WASTE MANAGEMENT

Investigation-derived waste (soil cuttings, rinsate water, and purge water) was stored on-Site in Department of Transportation-approved 55-gallon drums. CRA managed the waste profile and arranged for a certified waste contractor to transport and dispose of the waste once profiling was complete. All investigation-derived waste was removed from the Site and disposed at the Waste Management Inc. – Altamont Landfill and Resource Recovery Facility on April 30, 2015. A copy of the waste manifest is included as **Appendix E**.

4.0 SENSITIVE RECEPTOR SURVEY

Stantec conducted an updated sensitive receptor survey in June and July 2015 to evaluate the potential presence of water wells, surface water bodies, conduits, sumps, basements, and sensitive populations near the Site. A summary of the completed scope of work follows.

4.1 WELLS

Stantec conducted a well survey in July 2015 to identify all active, inactive, standby, decommissioned, unrecorded, and abandoned (improperly decommissioned or lost) wells within a 1,000-foot radius of the Site. The survey consisted of reviewing files provided by the California Department of Water Resources (DWR) and Alameda County Public Works (ACPW). All files provided by the DWR and ACPW are confidential in nature and are not provided within this report.

Information provided by the DWR indicated one cathodic protection well and one industrial well within the 1,000-foot radius and one industrial well with an unknown location. The cathodic protection well is located approximately 200 feet north (up- and slightly cross-gradient) of the Site, with a total depth of 120 feet bgs. No other information was provided for the cathodic protection well. The industrial well was located approximately 780 feet north (up- and slightly cross-gradient) of the Site, with a total depth of 108 feet bgs and a screen interval from 58 to 108 feet bgs. The well was installed in 1928 to support a business that no longer exists. The address given for the business no longer exists, and the business could not be located near the address provided. Furthermore, the industrial well was not identified in the well records provided by ACPW (see below); therefore, Stantec believes that this well has been destroyed.

Information provided by ACPW indicated 12 monitoring wells and one cathodic protection well within the 1,000-foot radius and eight monitoring wells or borings with unknown locations. Based on the location and information provided, the cathodic protection well is the same well identified in the DWR well search. Three of the monitoring wells are associated with a property located approximately 530 feet north (up- and slightly cross-gradient) of the Site and nine of the monitoring wells are associated with a property located approximately 730 feet east-southeast (cross-gradient) of the Site.

A map and table with all identified well locations within a 1,000-foot radius of the Site are shown on **Figure 8** and included in **Table 7**, respectively. Based on the predominant direction of groundwater flow (west-southwest), all identified wells are in up- or cross-gradient locations and are unlikely to be impacted by the dissolved-phase petroleum hydrocarbon plume associated with the Site.

4.2 SURFACE WATER BODIES

The United States Geological Survey (USGS) 7.5-minute topographic map for the Oakland West Quadrangle and aerial photos from Google Earth® were reviewed to identify any surface water within a 0.5-mile radius of the Site. The nearest surface water body is Glen Echo Creek, which is located approximately 1 mile southeast (cross-gradient) of the Site and drains into Lake Merritt. Based on the distance to Glen Echo Creek and its location cross-gradient (predominant direction of groundwater flow is west-southwest) of the Site, it is unlikely that Glen Echo Creek will be impacted by the dissolved-phase petroleum hydrocarbon plume associated with the Site.

4.3 CONDUIT SURVEY

In 2005, Cambria performed an underground conduit study to determine if there are any preferential migration pathways for groundwater. During this study, several underground utilities were identified in the vicinity of the Site (shown on **Figure 2**) (Cambria, 2005c). Based on the data collected, the depth to flow line in the storm drain and sewer lines ranges from approximately 7 to 15 feet bgs, which means the base of the trench backfill material for these lines is approximately 8 to 16 feet bgs. The historical range of DTW measurements associated with the Site is approximately 3 to 13 feet below TOC; therefore, the storm drain and sewer line trenches are at similar elevations to the groundwater table. Soil and groundwater data collected at boring SB-21, which is off Site in a down-gradient direction along the utility corridor, demonstrate that the utility trenches are not acting as a conduit for the dissolved-phase plume.

4.4 NEIGHBORHOOD SURVEY

Stantec conducted a neighborhood survey of the residences and businesses within approximately 400 feet from the Site in the vicinity of the dissolved-phase petroleum hydrocarbon plume as demonstrated by detectable concentrations of petroleum hydrocarbons in groundwater monitoring wells and grab groundwater samples (detectable plumes are shown on **Figure 5**, **Figure 6**, and **Figure 7**). Questionnaires were mailed to the physical addresses for each of the identified target properties. Survey results are illustrated on **Figure 9**, and the survey procedures and results are summarized below.

Each questionnaire was sent with a self-addressed and stamped envelope. Prior to mailing the questionnaires, Stantec contacted the Alameda County Assessor's Office to obtain property owner information for the parcels within the search area. Although within the search area, a questionnaire was not sent to 921 West MacArthur Boulevard, because the building on this property has an open-air car wash.

Stantec distributed the questionnaires to the physical addresses for each of the identified target properties on July 3, 2015. The recipients were given two weeks to return the questionnaires. On July 17, 2015, Stantec distributed a second copy of the questionnaire to each of the identified target properties that had not responded within the first two weeks. The recipients were given an additional two weeks to respond to Stantec's request. Stantec received two responses of the

14 total properties to which questionnaires were sent. Copies of the returned questionnaires are included in **Appendix F**. Tenant and property owner personal information has been redacted to protect their privacy.

Of the two responses, one property (3712 Market Street) identified a basement. Neither property identified a sump. Stantec followed up with the tenant at 3712 Market Street via telephone and learned that the basement occupies the entire building footprint and has a maximum depth of approximately 6 feet bgs. The basement primarily has a dirt floor with some areas of concrete pad. The property at 3712 Market Street is outside of the identified extent of dissolved-phase impacts as shown on **Figure 5**, **Figure 6**, and **Figure 7**; therefore, potential vapor and groundwater risk at this location is unlikely.

4.5 SENSITIVE POPULATION SURVEY

Stantec conducted a survey to determine if any sensitive populations were located in the vicinity of the Site. Sensitive populations are people who would potentially be more susceptible to risks resulting from exposure to Site-related hydrocarbons such as school-age children, medically-compromised people, and the elderly. The potential sensitive populations located within a 0.5-mile radius of the Site are listed in the following table, and shown on **Figure 8**.

Potential Sensitive Receptor	Address	Distance from Site (miles)	Direction from Site
A. Oakland Military Institute	3877 Lusk St.	0.05	NE
B. Saint Martin de Porres Catholic School	675 41st St.	0.24	NE
C. Avalon Senior Housing	3850 San Pablo Ave.	0.29	W-NW
D. Henderson Residential	4201 West St.	0.30	NE
E. Hoover Elementary and Junior High School	890 Brockhurst St.	0.31	S
F. North Oakland Community Charter	1000 42nd St.	0.33	N-NW
G. Sylvester Rutledge	3255 San Pablo Ave.	0.35	S-SW
H. Anna Yates Elementary School	1070 41st St.	0.36	NW
I. St. Mary's Center	3208 San Pablo Ave.	0.39	S-SW
J. Love Always Child Care Center	3261 Martin Luther King Jr. Way	0.43	S-SE
K. Emeryville Senior Center	4321 Salem St.	0.48	NW

Based on the predominant groundwater flow direction associated with the Site (west-southwest), two of the identified sensitive populations within a 0.5-mile radius of the Site (Sylvester Rutledge Manor and St. Mary's Center Preschool) are potentially located down-gradient of the Site. Based on their distance from the Site (0.35 and 0.39 miles, respectively) and the maximum extent of the dissolved phase plume, these sensitive receptors are not likely to be at risk from exposure to Site-related petroleum hydrocarbons.

5.0 LOW-THREAT CLOSURE POLICY EVALUATION

This section presents the low-risk general and media-specific criteria defined by the SWRCB's LTCP, effective August 17, 2012, under Resolution No. 2012-0016 (SWRCB, 2012a) and includes an evaluation of the Site compared to these criteria. The completed SWRCB LTCP Checklist is included as **Appendix G**.

5.1 GENERAL CRITERIA

- **Is the unauthorized release located within the service area of a public water system?**

  Yes. The Site is located within the service area of the East Bay Municipal Utility District.

- **Does the unauthorized release consist only of petroleum?**

  Yes. The constituents of concern (COCs) at the Site are petroleum hydrocarbons associated with gasoline, including TPH-GRO, BTEX compounds, and MtBE.

- **Has the unauthorized ("primary") release from the UST system been stopped?**

  Yes. In April and May 2005, the service station was demolished and all fueling features were removed.

  Dissolved-phase petroleum hydrocarbon concentrations associated with the Site are decreasing or stable, indicating that there is no longer a continuous petroleum hydrocarbon source at the Site.

- **Has free product been removed to the maximum extent practicable (per CCR Chapter 16 Section 2655 a-c)?**

  Not applicable. Free product has not been observed in any Site wells to-date; therefore, no free product removal activities have been conducted at any Site wells.

- **Has a conceptual Site model (CSM) that assesses the nature, extent, and mobility of the release been developed?**

  Yes. The *Site Conceptual Model and Data Gap Work Plan* was submitted on August 16, 2013 (Stantec, 2013), and the results of this investigation further refine the CSM.

- **Has secondary source been removed to the extent practicable?**

  Yes. Historical remedial efforts at the Site have consisted of:

- Over-excavation and disposal of approximately 162 cubic yards of soil and 7,800 gallons of groundwater in February 1997; and
- Over-excavation and disposal of approximately 5,134 tons of soil and 25,486 gallons of groundwater in April and May 2005.

Additional active remediation at the Site is not warranted to satisfy this criterion; however, additional targeted excavation in the area of soil borings SB-15 and SB-18 during Site redevelopment may help further support case closure efforts.

- **Has soil or groundwater been tested for MtBE and results reported in accordance with Health and Safety Code section 25296.15?**

  Yes. MtBE was analyzed in all soil samples collected in association with the Site. In addition, MtBE was routinely analyzed in groundwater during monitoring and sampling events. Results have been reported to ACEH and uploaded to GeoTracker™.

- **Does nuisance as defined by Water Code section 13050 exist at the site?**
  A "nuisance" is defined as anything which meets the following (1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property; (2) Affects at the same time an entire community or neighborhood;
  (3) Occurs during, or as a result of, the treatment or disposal of wastes.

  No. The conditions of "nuisance" do not exist at the Site.

- **Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?**

  No.

5.2 MEDIA-SPECIFIC CRITERIA

The LTCP also contains media-specific criteria for evaluating sites for case closure. Groundwater-specific criteria, petroleum vapor intrusion to indoor air scenarios, and criteria for direct contact and outdoor air exposure are described in the LTCP.

5.2.1 Groundwater-Specific Criteria

Current and historical groundwater quality data indicate that the dissolved-phase petroleum hydrocarbon plume at the Site is generally stable or decreasing in size and concentration.

Media-specific criteria for groundwater have been categorized based on:

1. The length of contaminant plume;

2. Presence of free product;

3. Distance to nearest existing water supply well or surface water body; and

4. Dissolved concentrations of benzene and MtBE.

Based on this, Site conditions satisfy groundwater-specific criteria under scenario #4 of the LTCP. This scenario states the following:

- "The contaminant plume that exceeds water quality objectives is less than 1,000 feet in length."

    - As described in Section 3.3.2, the average plume lengths for TPH-GRO, benzene, and MtBE provided in the *Technical Justification for Groundwater Media Specific Criteria* (SWRCB, 2012b) (248, 198, and 317 feet, respectively) are similar to the lengths of plumes drawn for the Site using boring/well locations and concentrations (shown on **Figure 5**, **Figure 6**, and **Figure 7**) and are unlikely to be exceeded. However, to be conservative, the 90th percentile plume lengths (413, 350, and 545 feet for TPH-GRO, benzene, and MtBE, respectively) are used for this LTCP evaluation. These lengths are all less than 1,000 feet.

- "There is no free product."

    - Free product has not been observed or documented in any borings or Site wells to-date.

- "The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary."

    - During the well survey conducted in 2015, one industrial well was identified approximately 780 feet north of the Site; however, this well is believed to be destroyed. In addition, this well is located in the up- and slightly cross-gradient direction, so is unlikely to be impacted by the dissolved-phase petroleum hydrocarbon plume associated with the Site. No surface water bodies were identified within a 0.5-mile radius of the Site.

- "The dissolved concentration of benzene is less than 1,000 µg/L, and the dissolved concentration of MtBE is less than 1,000 µg/L."

    - During Second Quarter 2015, benzene and MtBE were detected at maximum concentrations of 24 µg/L and 3 µg/L, respectively, in well MW-7. In addition, MtBE was below 1,000 µg/L in all grab groundwater samples collected during the 2015 investigation. Benzene was detected at 1,200 µg/L in the recent grab groundwater sample collected from soil boring SB-18 during the 2015 investigation; however, grab groundwater samples can exhibit concentrations as much as one order of magnitude higher than those collected from a monitoring well. Monitoring well MW-6 is in close proximity to boring SB-18 and exhibited a

benzene concentration of 19 µg/L during Second Quarter 2015; therefore, the concentration of benzene detected in SB-18 is not likely representative of groundwater conditions.

5.2.2 Petroleum Vapor Intrusion to Indoor Air

On-Site conditions do not currently satisfy any of the petroleum vapor intrusion to indoor air criteria scenarios. The on-site dissolved-phase benzene concentration from the grab groundwater sample collected from soil boring SB-15, which is outside the proposed building footprint near the property line, was above 100 µg/L during the 2015 investigation, which requires a minimum 10-foot bioattenuation zone of soil with TPH concentrations less than 100 mg/kg. The most recent DTW measurements in wells MW-5 and MW-6 adjacent to the Site are approximately 7.08 and 7.20 feet bgs, respectively. Without a minimum 10-foot bioattenuation zone and no direct soil gas measurements, the Site does not satisfy petroleum vapor intrusion to indoor air criteria. Although, the majority of contaminated soil was excavated in 2005, localized areas of residual soil contamination prevent this criteria from being met, particularly at soil boring SB-15 where TPH-GRO was detected above 100 mg/kg at 10 feet bgs. And although other detections of TPH-GRO in soil on Site were less than 100 mg/kg, their combined total exceeds 100 mg/kg.

Although the Site is currently a vacant lot, it is zoned for residential, and the proposed development plans for the Site include a residential building with its foundation constructed to depths ranging from approximately 4 to 12 feet bgs. This would place the building foundation within 10 feet of the groundwater table or within the groundwater table at some locations. Because on-site conditions do not meet any petroleum vapor intrusion to indoor air criteria scenarios, Stantec evaluated potential vapor intrusion in regards to the proposed development plans. The review is based on the proposed development plans provided by the property owner, dated March 1, 2007, and the evaluation may change should the development plans be updated prior to receipt of construction permits, which is highly likely due to the age of the plans.

There are no occupied spaces in the building that are provided with positive mechanical (forced) ventilation or particulate filtration. Dwelling units are provided with a small air make-up openings (for toilet room exhaust air and clothes dryer exhaust air make-up) and operable windows for ventilation. Vestibules and corridors are also provided with operable windows. The proximity of the building to two major roads, and these operable windows, provide pathways for external airborne pollutants to enter the dwelling units. Transient spaces, such as the stairways, are not provided with openings to the outdoors other than egress doors.

Although Site conditions do not currently satisfy petroleum vapor intrusion to indoor air criteria a or b, criteria c may be met by controlling exposure through the use of mitigation measures or engineering controls. Details within the development plans call for a vapor barrier in the typical slab-on-grade detail and a waterproofing membrane in the foundation details, which would assist with the mitigation of potential vapor intrusion to indoor air. In addition, the plans include a ventilation system for the ground floor parking garage, which would also assist with the

mitigation of potential vapor intrusion to indoor air. However, Stantec notes that the minimum air flow for the parking garage ventilation system appears to be based on a calculation using 33 cars without factoring in the car stacker. Factoring in the car stacker, it appears that a maximum of 39 cars may occupy the parking garage. Furthermore, no provision is made for ventilating the pit areas (elevator and car stacker) located below the parking garage floor level. Stantec recommends that the design plans be reevaluated by the owner to include minimum air flow calculations based on a total of 39 cars and that the two pit areas be ventilated with air flow calculated as the larger of 1 cubic foot per minute (cfm) of air per square foot of area, or 4 to 6 air changes per hour (one every 10 to 15 minutes) based on pit volume. With these considerations incorporated into the parking garage ventilation system, along with the planned vapor barrier and waterproofing membrane, these engineering controls should sufficiently mitigate exposure to potential petroleum hydrocarbon vapors migrating from soil and groundwater such that they will have no significant risk of adversely affecting human health.

Using current and historical soil and groundwater data, off-Site soil and groundwater conditions meet LTCP petroleum vapor intrusion to indoor air criteria scenario #3, because concentrations of dissolved benzene were less than 100 µg/L in groundwater monitoring well samples collected during Second Quarter 2015, groundwater levels are greater than 5 feet bgs, and concentrations of TPH in off-site soil are less than 100 mg/kg from 0 to 10 feet bgs.

5.2.3 Direct Contact and Outdoor Air Exposure

Site conditions satisfy the LTCP direct contact and outdoor air exposure criteria. The concentrations of benzene, ethylbenzene, and naphthalene in the upper 10 feet of soil that was not excavated are less than the residential and commercial limits for direct contact and outdoor air exposure specified in Table 1 of the LTCP.

VOCs and semi-volatile organic compounds (SVOCs), including polynuclear aromatic hydrocarbons (PAHs), were analyzed in the samples collected from boring B-4, located directly adjacent to the former waste oil UST. All concentrations of VOCs and SVOCs in these samples were below MDLs, thereby satisfying the PAH limits for direct contact and outdoor air exposure specified in Table 1 of the LTCP.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

- Lateral delineation of petroleum hydrocarbons in soil and groundwater is complete.
- Any identified wells, surface water bodies, potential sensitive populations, or nearby properties with basements are unlikely to be impacted by petroleum hydrocarbon impacts associated with the Site.
- All general criteria of the LTCP are satisfied.
- Groundwater-specific criteria of the LTCP are satisfied.
- Petroleum vapor intrusion to indoor air criteria of the LTCP are not currently satisfied on Site; however, based on the proposed design plans provided by the property owner, and with the inclusion of the recommendations summarized in Sections 5.2.2 and 6.2, petroleum vapor intrusion to indoor air criteria c may be satisfied, because engineering controls should sufficiently mitigate exposure to potential petroleum hydrocarbon vapors migrating from soil and groundwater such that they will have no significant risk of adversely affecting human health.
- Petroleum vapor intrusion to indoor air criteria are satisfied off Site.
- Direct contact and outdoor air exposure criteria of the LTCP are satisfied.

6.2 RECOMMENDATIONS

Stantec recommends that the design plans be reevaluated by the owner to include minimum air flow calculations based on a total of 39 cars (according to the current design) and that the two pit areas be ventilated with air flow calculated as the larger of 1 cubic foot per minute (cfm) of air per square foot of area, or 4 to 6 air changes per hour (one every 10 to 15 minutes) based on pit volume. With these considerations incorporated into the parking garage ventilation system, along with the planned vapor barrier and waterproofing membrane, these engineering controls should sufficiently mitigate exposure to potential petroleum hydrocarbon vapors migrating from soil and groundwater such that they will have no significant risk of adversely affecting human health. This would then satisfy LTCP petroleum vapor intrusion to indoor air criteria.

7.0 REFERENCES

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TABLES

Table 1
Current Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

			US EPA Method 8015B	US EPA METHOD 8260										
Boring ID	**Depth** ***(feet bgs)***	**Date Collected**	**TPH-GRO** ***(mg/kg)***	**Benzene** ***(mg/kg)***	**Toluene** ***(mg/kg)***	**Ethylbenzene** ***(mg/kg)***	**Total Xylenes** ***(mg/kg)***	**MtBE** ***(mg/kg)***	**TBA** ***(mg/kg)***	**DIPE** ***(mg/kg)***	**EtBE** ***(mg/kg)***	**TAME** ***(mg/kg)***	**Ethanol** ***(mg/kg)***	**Naphthalene** ***(mg/kg)***
SB-11	2.5	02/25/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.021	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	7.5		**0.7**	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.021	<0.001	<0.001	<0.001	<0.10	<0.001
	10		**65**	<0.023	<0.047	<0.047	<0.047	<0.023	<0.94	<0.047	<0.047	<0.047	<4.7	**0.46**
SB-12	2.5	02/26/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.021	<0.001	<0.001	<0.001	<0.10	<0.001
	7.5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	10		**26**	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
SB-13	2.5	02/25/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.099	<0.001
	14	03/05/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.019	<0.001	<0.001	<0.001	<0.097	<0.001
	14.5		<0.5	<0.0005	<0.001	<0.001	<0.001	**0.087**	<0.021	<0.001	<0.001	<0.001	<0.11	<0.001
SB-14	2.5	02/26/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	<0.019	<0.0009	<0.0009	<0.0009	<0.094	<0.0009
	7.5		**2.4**	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.019	<0.001	<0.001	<0.001	<0.096	<0.001
	10		**39**	**0.004**	<0.001	**0.005**	<0.001	**0.0006**	<0.021	<0.001	<0.001	<0.001	<0.11	**0.002**
SB-15	2.5	02/27/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.019	<0.001	<0.001	<0.001	<0.096	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	7.5		**0.9**	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.022	<0.001	<0.001	<0.001	<0.11	<0.001
	10		**480**	**0.40**	<0.053	**8.3**	**14**	<0.027	<1.1	<0.053	<0.053	<0.053	<5.3	**2.5**
SB-17	2.5	02/27/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	**0.001**
	7.5		**0.6**	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	<0.019	<0.0009	<0.0009	<0.0009	<0.093	<0.0009
	10		**25**	**0.0008**	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
SB-18	2.5	02/27/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.021	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.099	<0.001
	7.5		**470**	**0.064**	<0.047	**0.24**	<0.047	<0.023	<0.94	<0.047	<0.047	<0.047	<4.7	**0.11**
	10		**410**	**0.17**	<0.048	**3.8**	<0.048	<0.024	<0.96	<0.048	<0.048	<0.048	<4.8	**1.2**
SB-19	2.5	02/26/15	<0.5	<0.0005	<0.001	<0.001	<0.001	**0.001**	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	5		<0.5	<0.0005	<0.0009	<0.0009	<0.0009	**0.0005**	<0.019	<0.0009	<0.0009	<0.0009	<0.094	<0.0009
	7.5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
	10		**5.7**	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.10	<0.001
SB-20	2.5	02/26/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.099	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.098	<0.001
	7.5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.022	<0.001	<0.001	<0.001	<0.11	<0.001

Table 1
Current Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

			US EPA Method 8015B	US EPA METHOD 8260										
Boring ID	**Depth** ***(feet bgs)***	**Date Collected**	**TPH-GRO** ***(mg/kg)***	**Benzene** ***(mg/kg)***	**Toluene** ***(mg/kg)***	**Ethylbenzene** ***(mg/kg)***	**Total Xylenes** ***(mg/kg)***	**MtBE** ***(mg/kg)***	**TBA** ***(mg/kg)***	**DIPE** ***(mg/kg)***	**EtBE** ***(mg/kg)***	**TAME** ***(mg/kg)***	**Ethanol** ***(mg/kg)***	**Naphthalene** ***(mg/kg)***
SB-21	2.5	02/27/15	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.019	<0.001	<0.001	<0.001	<0.096	<0.001
	5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.098	<0.001
	7.5		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.098	<0.001
	10		<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.019	<0.001	<0.001	<0.001	<0.096	<0.001
ESLs - Shallow Soil[1,2]			**100**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**0.075**	**NE**	**NE**	**NE**	**NE**	**1.2**
ESLs - Deep Soil[1,2]			**500**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**0.075**	**NE**	**NE**	**NE**	**NE**	**1.2**

Notes:

1 = California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final - December 2013.
2 = Shallow soil refers to soil above 9.84 feet bgs and deep soil refers to soil below 9.84 feet bgs.
Bold text denotes detected concentrations. **Bold/blue** text denotes concentrations above RWQCB ESLs for residential land use where groundwater is a current or potential source of drinking water.

Abbreviations:

bgs = below ground surface
US EPA = United States Environmental Protection Agency
TPH-GRO = total petroleum hydrocarbons as gasoline range organics
mg/kg = milligrams per kilogram
MtBE = *methyl tertiary*-butyl ether
TBA = *tertiary*-butyl alcohol
DIPE = di-isopropyl ether
EtBE = ethyl *tertiary*-butyl ether
TAME = *tertiary*-amyl methyl ether
< = indicates less than stated method detection limit
ESL = Environmental Screening Level
NE = ESL not established for compound

Table 2
Historical Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Borehole/ Sample ID	Sample Depth (*feet bgs*)	Sample Date	TPH-GRO (*mg/kg*)	Benzene (*mg/kg*)	Toluene (*mg/kg*)	Ethylbenzene (*mg/kg*)	Total Xylenes (*mg/kg*)	MtBE (*mg/kg*)	DIPE (*mg/kg*)	ETBE (*mg/kg*)	TAME (*mg/kg*)	TBA (*mg/kg*)	1,2-DCA (*mg/kg*)	Lead (*mg/kg*)
S1 (soil removed)	3	02/26/97	<1.0	<0.0050	<0.0050	<0.0050	0.011	0.087	--	--	--	--	--	--
S2 (soil removed)	3	02/26/97	6.0[1]	<0.0050	<0.0050	<0.0050	0.0079	0.38	--	--	--	--	--	--
S3 (soil removed)	3	02/26/97	4.1[2]	0.0098	0.0087	0.027	0.026	0.44	--	--	--	--	--	--
S4 (soil removed)	3	02/26/97	2.0[2]	0.016	0.0088	<0.0050	0.015	0.42	--	--	--	--	--	--
S5 (soil removed)	3	02/26/97	38	0.63	0.14	0.90	0.37	0.62	--	--	--	--	--	--
S6	3	02/26/97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--
B-1 (soil removed)	6	10/06/00	68[3]	0.25	0.30	1.2	0.64	0.33	--	--	--	--	--	4.5
	11		<1.0	<0.0050	0.0073	<0.0050	0.0089	<0.050	--	--	--	--	--	4.5
B-2 (soil removed)	6	10/06/00	<1.0[4]	<0.0050	<0.0050	<0.0050	0.012	<0.050	--	--	--	--	--	6.9
	11		<1.0[4]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	3.9
B-3 (soil removed)	6	10/09/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	4.4
	11		930[3]	6.7	1.2	22	100	13	--	--	--	--	--	4.7
B-4	6	10/09/00	<1.0[5]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050[6]	--	--	--	--	--	10[7]
	11		<1.0[5]	<0.0050	<0.0050	<0.0050	<0.0050	<0.050[6]	--	--	--	--	--	3.5[8]
B-5	6	10/05/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	6.1
	11		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	3.7
B-6	6	10/05/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	6.5
	11		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	5.1
B-7 (soil removed)	6	10/09/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	9.2
	11		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	5.4
B-8	6	10/06/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	6.8
	11		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	5.1
B-9 (soil removed)	6	10/09/00	95[3]	0.15	0.2	1.9	2.2	<0.5	--	--	--	--	--	5.0
	11		200[3]	1.3	0.59	6.1	9.7	3.4	--	--	--	--	--	6.9
B-10 (soil removed)	6	10/06/00	<1.0	<0.0050	0.0058	0.0052	0.016	<0.050	--	--	--	--	--	7.7
	11		<1.0	<0.0050	<0.0050	0.0051	0.015	<0.050	--	--	--	--	--	4.6
MW-1	6	03/01/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
	24.5		<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
MW-2	4.5	03/01/02	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
	14.5		<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
	24.5		<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
MW-3	4.5	03/01/02	240	<0.050	<0.050	3.7	<0.300	<0.20	--	--	--	--	--	--
	14.5		2.1	0.22	<0.0050	0.11	<0.015	<0.21	--	--	--	--	--	--
	24.5		<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--
MW-4	4	03/01/02	150	0.18	<0.020	2.1	1.9	0.23	--	--	--	--	--	--
	14.5		3.1	<0.0050	<0.0050	0.019	<0.015	<0.050	--	--	--	--	--	--
	24.5		<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--

Table 2
Historical Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Borehole/ Sample ID	Sample Depth (*feet bgs*)	Sample Date	TPH-GRO (*mg/kg*)	Benzene (*mg/kg*)	Toluene (*mg/kg*)	Ethylbenzene (*mg/kg*)	Total Xylenes (*mg/kg*)	MtBE (*mg/kg*)	DIPE (*mg/kg*)	ETBE (*mg/kg*)	TAME (*mg/kg*)	TBA (*mg/kg*)	1,2-DCA (*mg/kg*)	Lead (*mg/kg*)
EX1	10	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	11
EX2 (soil removed)	10	04/25/05	1.8	<0.005	0.0095	<0.005	<0.005	<0.005	--	--	--	--	--	12
EX3 (soil removed)	10	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	8.7
EX4 (soil removed)	10	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	11
EX5	10	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	9.8
EX6 (soil removed)	3.5	04/25/05	3.5	<0.005	0.020	<0.005	<0.005	<0.005	--	--	--	--	--	8.9
EX7 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	12
EX8 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	9.7
EX9 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	8.9
EX10 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	5.5
EX11 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	12
EX12 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	9.3
EX13 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	7.2
EX14 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	6.6
EX15 (soil removed)	3.5	04/25/05	65	<0.005	0.087	0.53	0.069	<0.005	--	--	--	--	--	11
EX16 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	7.9
EX17 (soil removed)	3.5	04/25/05	370	<0.050	0.20	<0.050	0.61	<0.50	--	--	--	--	--	14
EX18 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	7.8
EX19 (soil removed)	3.5	04/25/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	7.1
EX20 (soil removed)	3.5	04/25/05	3.4	<0.005	0.021	<0.005	0.0075	<0.005	--	--	--	--	--	8.4
EX21 (soil removed)	3.5	04/25/05	190	0.20	0.14	0.17	0.27	0.37	--	--	--	--	--	22
EX22 (soil removed)	3.5	04/25/05	76	0.35	0.058	0.78	0.20	<0.25	--	--	--	--	--	13
EX23	7	04/27/05	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
EX24 (soil removed)	10	04/27/05	120	2.2	0.23	2.9	6.6	0.12	--	--	--	--	--	--
EX25 (soil removed)	10	04/27/05	19	1.3	<0.10	0.63	0.18	0.26	--	--	--	--	--	--
EX26 (soil removed)	10	04/27/05	<1.0	<0.005	<0.005	<0.005	<0.005	0.23	--	--	--	--	--	--
EX27 (soil removed)	7	04/27/05	480	<0.050	<0.050	<0.050	<0.050	<0.050	--	--	--	--	--	--
EX28 (soil removed)	8	04/27/05	2,800	3.0	<2.0	58	120	<2.0	--	--	--	--	--	--
EX29 (soil removed)	8	04/27/05	250	<0.033	<0.033	<0.033	<0.033	<0.033	--	--	--	--	--	--
EX30 (soil removed)	8	04/27/05	81	0.021	<0.020	0.034	<0.020	<0.020	--	--	--	--	--	--
EX31 (soil removed)	8	04/27/05	600	<0.10	<0.10	0.30	<0.10	<0.10	--	--	--	--	--	--
EX32	12	05/02/05	<1.0	<0.005	<0.005	<0.005	<0.005	0.0065	--	--	--	--	--	--
EX33	12	05/02/05	<1.0	<0.005	<0.005	<0.005	<0.005	0.12	--	--	--	--	--	--
EX34	12	05/02/05	<1.0	<0.005	<0.005	<0.005	<0.005	0.03	--	--	--	--	--	--
EX35	12	05/02/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
EX36	9	05/02/05	450	<0.33	<0.33	10	7.30	<0.33	--	--	--	--	--	--
EX37	9	05/02/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--

Table 2
Historical Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Borehole/ Sample ID	Sample Depth (*feet bgs*)	Sample Date	TPH-GRO (*mg/kg*)	Benzene (*mg/kg*)	Toluene (*mg/kg*)	Ethylbenzene (*mg/kg*)	Total Xylenes (*mg/kg*)	MtBE (*mg/kg*)	DIPE (*mg/kg*)	ETBE (*mg/kg*)	TAME (*mg/kg*)	TBA (*mg/kg*)	1,2-DCA (*mg/kg*)	Lead (*mg/kg*)
EX38	12	05/03/05	**34**	**0.66**	<0.10	**0.66**	**0.31**	**0.21**	--	--	--	--	--	--
EX39	9	05/03/05	**64**	**0.022**	<0.005	**0.11**	**0.014**	<0.005	--	--	--	--	--	--
EX40	12	05/03/05	<1.0	<0.005	<0.005	<0.005	<0.005	**0.12**	--	--	--	--	--	--
EX41	12	05/03/05	<1.0	<0.005	<0.005	<0.005	<0.005	**0.16**	--	--	--	--	--	--
EX42 (soil removed)	9	05/03/05	~~**450**~~	~~<0.010~~	~~<0.010~~	~~<0.010~~	~~<0.010~~	~~<0.010~~	--	--	--	--	--	--
EX43 (soil removed)	9	05/03/05	~~**120**~~	~~<0.010~~	~~<0.010~~	~~**0.070**~~	~~<0.010~~	~~<0.010~~	--	--	--	--	--	--
EX44 (soil removed)	9	05/03/05	~~**230**~~	~~<0.010~~	~~<0.010~~	~~**0.110**~~	~~<0.010~~	~~<0.010~~	--	--	--	--	--	--
EX45	12	05/10/05	<1.0	<0.005	<0.005	<0.005	<0.005	**0.11**	--	--	--	--	--	--
EX46	12	05/10/05	<1.0	<0.005	<0.005	<0.005	<0.005	**0.025**	--	--	--	--	--	--
EX47	8	05/10/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX48	12	05/10/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX49 (soil removed)	9	05/10/05	~~**1.1**~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	--	--	--	--	--	~~<0.005~~
EX50	9	05/10/05	**1.3**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX51	9	05/10/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX52 (soil removed)	9	05/11/05	~~**610**~~	~~<0.50~~	~~<0.50~~	~~**18**~~	~~<0.50~~	~~<0.50~~	--	--	--	--	--	~~<0.50~~
EX53	12	05/11/05	<1.0	<0.005	**0.0055**	<0.005	<0.005	**0.16**	--	--	--	--	--	**0.16**
EX54 (soil removed)	9	05/11/05	~~**2.7**~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	--	--	--	--	--	~~<0.005~~
EX55	9	05/19/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX56	9	05/19/05	**8.5**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX57	12	05/19/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.005
EX58	12	05/19/05	<1.0	<0.005	<0.005	<0.005	<0.005	**0.0070**	--	--	--	--	--	**0.0070**
EX59	9	05/19/05	**240**	<0.025	<0.025	**0.40**	<0.025	<0.025	--	--	--	--	--	<0.025
EX60	9	05/20/05	**250**	<0.20	<0.20	**6.1**	<0.20	<0.20	--	--	--	--	--	<0.20
EX61	12	05/20/05	**16**	**0.10**	<0.010	**0.19**	**0.012**	**0.079**	--	--	--	--	--	**0.079**
EX62	9	05/20/05	**78**	<0.005	<0.005	**0.095**	<0.005	<0.005	--	--	--	--	--	<0.005
EX63	9	05/20/05	**22**	**0.25**	<0.033	**0.90**	**0.035**	<0.033	--	--	--	--	--	<0.033
MW-5	5	07/22/08	**260**	<0.025	<0.049	<0.049	<0.049	<0.025	<0.049	<0.049	<0.049	<0.98	<0.049	--
	10	07/23/08	<1.0	<0.005	<0.001	<0.001	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.019	<0.001	--
	15		<1.0	<0.0005	<0.001	<0.001	<0.001	**0.021**	<0.001	<0.001	<0.001	<0.020	<0.001	--
	20		<1.0	<0.0005	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.020	<0.001	--
	25		**1.8**	<0.0005	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.019	<0.001	--
MW-6	5	07/22/08	**2.7**	<0.0005	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.020	<0.001	--
	10	07/23/08	**16**	**0.19**	<0.001	**0.13**	**0.006**	**0.07**	<0.001	<0.001	**0.001**	**0.042**	<0.001	--
	15		**1.9**	<0.0005	<0.001	<0.001	<0.001	**0.007**	<0.001	<0.001	<0.001	**0.026**	<0.001	--
	20		<1.0	<0.0005	<0.001	**0.001**	<0.001	**0.006**	<0.001	<0.001	<0.001	<0.020	<0.001	--
	25		<1.0	**0.001**	<0.001	**0.012**	<0.001	**0.0009**	<0.001	<0.001	<0.001	<0.022	<0.001	--

Table 2
Historical Soil Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Borehole/ Sample ID	Sample Depth (*feet bgs*)	Sample Date	TPH-GRO (*mg/kg*)	Benzene (*mg/kg*)	Toluene (*mg/kg*)	Ethylbenzene (*mg/kg*)	Total Xylenes (*mg/kg*)	MtBE (*mg/kg*)	DIPE (*mg/kg*)	ETBE (*mg/kg*)	TAME (*mg/kg*)	TBA (*mg/kg*)	1,2-DCA (*mg/kg*)	Lead (*mg/kg*)
MW-7	5	07/22/08	<1.0	<0.0005	<0.001	**0.014**	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.020	<0.001	--
	10	07/23/08	**75**	**0.21**	<0.046	**1.9**	<0.046	<0.023	<0.046	<0.046	<0.046	<0.92	<0.046	--
	15		**31**	**0.062**	<0.001	**0.19**	**0.004**	<0.0005	<0.001	<0.001	<0.001	<0.019	<0.001	--
	20		<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.021	<0.001	--
	25		<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.020	<0.001	--
MW-8	5	07/22/08	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.019	<0.001	--
	10	07/24/08	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.020	<0.001	--
	15		<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.021	<0.001	--
	20		<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.020	<0.001	--
	25		<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.020	<0.001	--
SB-10	5	01/04/11	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	--
	9.5		<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	--
	14.5		<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	--
	19.5		<1	**0.0006**	**0.002**	<0.001	<0.001	<0.0005	--	--	--	--	--	--
ESLs - Shallow Soil[9,10]			**100**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**NE**	**NE**	**NE**	**0.075**	**0.0045**	**80**
ESLs - Deep Soil[9,10]			**500**	**0.044**	**2.9**	**3.3**	**2.3**	**0.023**	**NE**	**NE**	**NE**	**0.075**	**0.0045**	**80**

Notes:

[1] = Unidentified hydrocarbons > C8.

[2] = Gasoline and discrete peaks.

[3] = Gasoline C6-C12.

[4] = Sample also analyzed for total petroleum hydrocarbons as hydraulic oil (TPHho; <10 mg/kg).

[5] = Sample also analyzed for total oil and grease (TOG; <50 mg/kg) and total petroleum hydrocarbons as diesel range organics (TPH-DRO; <1.0 mg/kg).

[6] = Sample also analyzed for volatile organic compounds (VOCs; non-detect) and semi-volatile organic compounds (SVOCs; non-detect).

[7] = Sample also analyzed for cadmium (0.69 mg/kg), chromium (42 mg/kg), nickel (100 mg/kg), and zinc (63 mg/kg).

[8] = Sample also analyzed for cadmium (0.57 mg/kg), chromium (24 mg/kg), nickel (29 mg/kg), and zinc (50 mg/kg).

[9] = California Regional Water Quality Control Board, San Francisco Bay Region, *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final - December 2013.

[10] = Shallow soil refers to soil above 9.84 feet bgs and deep soil refers to soil below 9.84 feet bgs.

Bold text denotes detected concentrations. **Bold/blue** text denotes detected concentrations above ESLs for Residential Land Use.

Abbreviations:

bgs = below ground surface
mg/kg = milligrams per kilogram
TPH-GRO = total petroleum hydrocarbons as gasoline range organics
MtBE = methyl *tertiary* -butyl ether
DIPE = di-isopropyl ether
EtBE = ethyl *tertiary* -butyl ether
TAME = *tertiary* -amyl methyl ether
TBA = *tertiary* -butyl alcohol
1,2-DCA = 1,2-dichloroethane
< = indicates less than stated method detection limit
-- = not analyzed
ESL = Environmental Screening Level
NE = ESL not established for compound

Table 3

Current Grab Groundwater Analytical Results

Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

			US EPA Method 8015B	US EPA METHOD 8260										
Boring ID	**Date Collected**	**DTW** *(feet bgs)*	**TPH-GRO** *(µg/L)*	**Benzene** *(µg/L)*	**Toluene** *(µg/L)*	**Ethylbenzene** *(µg/L)*	**Total Xylenes** *(µg/L)*	**MtBE** *(µg/L)*	**TBA** *(µg/L)*	**DIPE** *(µg/L)*	**EtBE** *(µg/L)*	**TAME** *(µg/L)*	**Ethanol** *(µg/L)*	**Naphthalene** *(µg/L)*
SB-11	02/25/15	6.05	**4,800**	<0.5	**0.9**	**0.9**	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<50	**2**
SB-12	02/26/15	5.6	**3,800**	<0.5	<0.5	<0.5	<0.5	**0.5**	<2	<0.5	<0.5	<0.5	<50	<1
SB-13	03/05/15	7.5	<50	<0.5	<0.5	<0.5	<0.5	**4**	<2	<0.5	<0.5	<0.5	<50	<1
SB-14	02/26/15	6.2	**8,800**	**0.8**	<0.5	**11**	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<50	**4**
SB-15	02/27/15	6.5	**43,000**	**210**	**21**	**2,700**	**4,100**	**1**	<2	<0.5	<0.5	<0.5	<50	**900**
SB-17	02/27/15	5.7	**5,300**	<0.5	<0.5	**4**	**1**	<0.5	<2	<0.5	<0.5	<0.5	<50	<1
SB-18	02/27/15	8.9	**43,000**	**1,200**	**7**	**3,100**	**76**	**29**	**29**	<1	<1	<1	<100	**910**
SB-19	02/26/15	9.83	**8,300**	<0.5	<0.5	**3**	**0.6**	<0.5	<2	<0.5	<0.5	<0.5	<50	<1
SB-20	02/26/15	6.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<50	<1
SB-21	02/27/15	10.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<50	<1
ESLs[1]			**100**	**1**	**40**	**30**	**20**	**5**	**12**	**NE**	**NE**	**NE**	**NE**	**6.1**

Notes:

[1] = California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final - December 2013.

Bold text denotes detected concentrations. **Bold/blue** text denotes concentrations above RWQCB ESLs for groundwater that is a current or potential source of drinking water.

Abbreviations:

DTW = Depth-to-Groundwater
US EPA = United States Environmental Protection Agency
TPH-GRO = total petroleum hydrocarbons as gasoline range organics
(µg/L) = micrograms per liter
MtBE = methyl *tertiary*-butyl ether
TBA = *tertiary*-butyl alcohol
DIPE = di-isopropyl ether
EtBE = ethyl *tertiary*-butyl ether
TAME = *tertiary*-amyl methyl ether
< = indicates less than stated method detection limit
ESL = Environmental Screening Level
NE = ESL not established for compound

Table 4
Historical Grab Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Borehole/ Sample ID	Sample Depth (*feet bgs*)	Sample Date	TPH-GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)
B-1	13.1	10/06/00	**3,600**[1]	**110**	**3.5**	**770**	**150**	**820**	--	--	--	--	--	--
B-2	13	10/06/00	<50[2]	<0.50	<0.50	<0.50	<0.50	**460**	--	--	--	--	--	--
B-3	13.1	10/09/00	**33,000**[1]	**1,200**	**580**	**2,000**	**7,500**	**670**	--	--	--	--	--	--
B-4	13.5	10/09/00	<50[3]	<0.50	<0.50	<0.50	<0.50	**71**[4,5]	--	--	--	--	--	--
B-5	12.3	10/06/00	<50	<0.50	<0.50	<0.50	<0.50	**590**	--	--	--	--	--	--
B-6	11.8	10/06/00	<50	<0.50	<0.50	<0.50	<0.50	**34**	--	--	--	--	--	--
B-7	13.7	10/09/00	**500**[1]	<0.50	<0.50	**16**	**63**	**360**	--	--	--	--	--	--
B-8	12.8	10/06/00	<50	<0.50	<0.50	<0.50	<0.50	**650**	--	--	--	--	--	--
B-10	13.8	10/09/00	**3,700**[1]	**8.3**	**4.2**	**180**	**1.7**	**47**	--	--	--	--	--	--
SB-1	20	03/28/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	30		<50	<0.5	**1**	<0.5	**0.5**	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-2	20	03/28/06	**2,700**	**34**	**1**	**83**	**170**	**38**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	31		**970**	**11**	**1**	**24**	**50**	**13**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-3	16	03/30/06	<50	<0.5	**1**	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	34		<50	**0.6**	**2**	<0.5	**1**	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-5	28	03/29/06	<50	**1**	**1**	**1**	**3**	**5**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	44		**51**	**0.8**	**2**	**0.9**	**3**	**0.8**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-6	16	03/30/06	<50	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	30		<50	<0.5	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-8	23	03/29/06	**66**	<0.5	**1**	<0.5	**1**	**7**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	33		**63**	<0.5	**0.7**	<0.5	**0.6**	**2**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-9	23	03/30/06	<50	<0.5	**0.6**	<0.5	<0.5	**210**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	33		<50	**0.6**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-10	--	01/04/11	<50	<0.5	<0.5	<0.5	<0.5	**4**	--	--	--	--	--	--
ESLs[6]			**100**	**1**	**40**	**30**	**20**	**5**	**NE**	**NE**	**NE**	**12**	**0.05**	**0.5**

Notes:

[1] = Gasoline C6-C12.

[2] = Sample also analyzed for total petroleum hydrocarbons as hydraulic oil (TPHho; <250 µg/L).

[3] = Sample also analyzed for total oil and grease (TOG; <5,000 µg/L) and total petroleum hydrocarbons as diesel range organics (TPH-DRO; 170 µg/L).

[4] = Sample also analyzed for volatile organic compounds (VOCs; non-detect except for tetrachloroethene [PCE] at 4.3 µg/L) and semi-volatile organic compounds (SVOCs; non-detect).

[5] = Sample also analyzed for cadmium (non-detect), chromium (110 µg/L), lead (27 µg/L), nickel (140 µg/L), and zinc (250 µg/L).

[6] = California Regional Water Quality Control Board, San Francisco Bay Region, *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final - December 2013.*

Bold text denotes detected concentrations. **Bold/blue** text denotes detected concentrations above ESLs for groundwater that is a current or potential source of drinking water.

Abbreviations:

bgs = below ground surface
µg/L = micrograms per liter
TPH-GRO = total petroleum hydrocarbons as gasoline range organics
MtBE = methyl *tertiary* -butyl ether
DIPE = di-isopropyl ether
EtBE = ethyl *tertiary* -butyl ether
TAME = *tertiary* -amyl methyl ether
TBA = *tertiary* -butyl alcohol
1,2-DCA = 1,2-dichloroethane
1,2-DBA = 1,2-dibromoethane
< = indicates less than stated method detection limit
-- = not measured/not analyzed
ESL = Environmental Screening Level
NE = ESL not established for compound

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
MW-5									
08/22/08[1]	49.39	9.97	39.42	--	--	--	--	--	--
08/27/08[3]	49.39	10.03	39.36	54	0.5	0.8	<0.5	0.7	10
11/21/08[3]	49.39	8.42	40.97	6,000	93	6	37	6	8
02/13/09[3]	49.39	7.11	42.28	5,100	31	5	20	3	6
05/08/09[3]	49.39	7.21	42.18	3,600	18	4	14	2	2
08/07/09[3]	49.39	9.60	39.79	520	0.7	<0.5	<0.5	<0.5	2
11/05/09[3]	49.39	7.08	42.31	7,400	16	5	18	4	0.9
05/06/10[3]	49.39	6.08	43.31	3,500	4	2	3	0.9	0.9
11/03/10[5]	49.39	9.05	40.34	5,000	13	4	8	3	0.9
05/10/11[5]	49.39	7.26	42.13	3,200	6	4	7	0.9	<0.5
11/10/11[5]	49.39	7.60	41.79	2,600	6	3	10	2	<0.5
05/11/12[5]	49.39	6.48	42.91	3,300	<3	<3	<3	<3	<3
11/14/12[3]	49.39	8.89	40.50	2,100	3	2	3	0.6	<0.5
05/08/13[3]	49.39	8.41	40.98	2,100	2	0.9	2	<0.5	<0.5
11/06/13[3]	49.39	9.81	39.58	160	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14[3]	49.39	6.74	42.65	3,500	1	2	4	<0.5	<0.5
11/19/14	49.39	INACCESSIBLE; FLOODED WITH SURFACE WATER				--	--	--	--
05/07/15[3]	**49.39**	**7.08**	**42.31**	**2,800**	**1**	**1**	**2**	**<0.5**	**<0.5**
MW-6									
08/22/08[1]	49.07	8.98	40.09	--	--	--	--	--	--
08/27/08[3]	49.07	8.98	40.09	6,000	990	4	350	530	440
11/21/08[3]	49.07	8.12	40.95	14,000	1,000	15	1,300	550	300
02/13/09[3]	49.07	5.84	43.23	9,700	630	4	510	36	180
05/08/09[3]	49.07	5.77	43.30	7,600	240	4	470	67	38
08/07/09[3]	49.07	8.49	40.58	14,000	1,500	12	1,400	180	330
11/05/09[3]	49.07	6.72	42.35	22,000	870	8	1,300	130	160
05/06/10[3]	49.07	4.89	44.18	5,200	110	2	160	23	9
11/03/10[5]	49.07	8.05	41.02	13,000	1,100	8	670	58	160
05/10/11[4,5]	49.07	8.56	40.51	<50	0.6	<0.5	<0.5	<0.5	<0.5
11/10/11[5]	49.07	7.59	41.48	5,700	260	7	180	13	37
05/11/12[5]	49.07	5.68	43.39	1,200	36	0.6	0.8	<0.5	1
11/14/12[3]	49.07	9.83	39.24	6,400	290	9	180	6	36
05/08/13[3]	49.07	7.21	41.86	2,000	77	1	9	<0.5	6
11/06/13[3]	49.07	9.27	39.80	5,300	330[6]	3[6]	8[6]	1[6]	78[6]

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
MW-6 (cont)									
05/14/14[3]	49.07	6.29	42.78	5,000	140	6	46	2	10
11/19/14	49.07	INACCESSIBLE; FLOODED WITH SURFACE WATER				--	--	--	--
05/07/15[3]	**49.07**	**7.20**	**41.87**	**3,600**	**19**	**2**	**7**	**<0.5**	**2**
MW-7									
08/22/08[1]	48.74	10.20	38.54	--	--	--	--	--	--
08/27/08[3]	48.74	10.19	38.55	<50	<0.5	0.6	<0.5	0.7	6
11/21/08[3]	48.74	9.51	39.23	1,100	80	<0.5	65	0.7	6
02/13/09[3]	48.74	7.95	40.79	630	30	<0.5	38	0.9	7
05/08/09[3]	48.74	8.04	40.70	1,200	83	<0.5	190	2	8
08/07/09[3]	48.74	9.88	38.86	8,900	240	0.7	770	5	5
11/05/09[3]	48.74	9.03	39.71	12,000	630	<1	1,300	420	5
05/06/10[3]	48.74	7.88	40.86	4,000	190	<0.5	270	7	6
11/03/10[5]	48.74	9.48	39.26	5,700	150	0.7	45	2	4
05/10/11[5]	48.74	8.82	39.92	3,500	180	<0.5	150	2	5
11/10/11[5]	48.74	9.68	39.06	1,500	2	<0.5	2	<0.5	5
05/11/12[5]	48.74	8.37	40.37	9,200	440	<5	1,000	33	<5
11/14/12[3]	48.74	9.79	38.95	5,000	<3	<3	6	<3	4
05/08/13[3]	48.74	9.54	39.20	2,200	10	<0.5	2	<0.5	5
11/06/13[3]	48.74	10.60	38.14	790	<0.5	<0.5	<0.5	<0.5	4
05/14/14[3]	48.74	8.73	40.01	8,200	380[6]	<1[6]	460[6]	34[6]	4[6]
11/19/14[3]	48.74	10.33	38.41	1,200	0.6	<0.5	1	<0.5	5
05/07/15[3]	**48.74**	**9.33**	**39.41**	**5,000**	**24**	**0.8**	**19**	**1**	**3**
MW-8									
08/22/08[1]	47.61	12.41	35.20	--	--	--	--	--	--
08/27/08[3]	47.61	12.42	35.19	<50	<0.5	0.7	<0.5	0.6	<0.5
11/21/08[3]	47.61	11.42	36.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/13/09[3]	47.61	8.87	38.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/09[3]	47.61	10.79	36.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09[3]	47.61	12.33	35.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/05/09[3]	47.61	11.23	36.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/10[3]	47.61	10.28	37.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/03/10[5]	47.61	11.37	36.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/11[5]	47.61	11.55	36.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/11[5]	47.61	11.49	36.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/12[5]	47.61	10.89	36.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
MW-8 (cont)									
11/14/12[3]	47.61	11.73	35.88	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/13[3]	47.61	12.03	35.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/06/13[3]	47.61	12.63	34.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14[3]	47.61	11.69	35.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/19/14[3]	47.61	12.33	35.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/07/15[3]	**47.61**	**11.79**	**35.82**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-1									
03/12/02[1]	50.71	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
06/07/02	50.71	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
09/13/02	50.71	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
12/13/02	50.71	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
03/01/03	50.71	7.34	43.37	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[2]
06/27/03[3]	50.71	9.29	41.42	<50	<0.5	0.6	<0.5	<0.5	<0.5
09/30/03[3]	50.71	10.17	40.54	<50	<0.5	0.6	<0.5	<0.5	<0.5
12/03/03[3]	50.71	7.82	42.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	50.71	6.57	44.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	50.71	9.78	40.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	50.71	9.91	40.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04[3]	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05[3]	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	50.71	8.59	42.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	50.71	9.38	41.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	50.71	8.44	42.27	--	--	--	--	--	--
03/20/06	50.71	3.05	47.66	--	--	--	--	--	--
06/01/06	50.71	6.77	43.94	--	--	--	--	--	--
09/11/06	50.71	9.18	41.53	--	--	--	--	--	--
DESTROYED									
MW-2									
03/12/02[1]	52.57	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3[2]
06/07/02	52.57	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
09/13/02	52.57	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[2]
06/27/03[3]	52.57	9.59	42.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03[3]	52.57	10.64	41.93	<50	<0.5	<0.5	<0.5	<0.5	0.7

Table 5
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
MW-2 (cont)									
12/03/03[3]	52.57	7.54	45.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	52.57	6.05	46.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	52.57	10.15	42.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	52.57	10.14	42.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04[3]	52.57	2.29	50.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05[3]	52.57	2.44	50.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	52.57	8.99	43.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	52.57	10.17	42.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	52.57	8.99	43.58	--	--	--	--	--	--
03/20/06	52.57	2.70	49.87	--	--	--	--	--	--
06/01/06	51.57	6.51	45.06	--	--	--	--	--	--
09/11/06	51.57	10.06	41.51	--	--	--	--	--	--
DESTROYED									
MW-3									
03/12/02[1]	50.31	6.50	43.81	12,000	600	8.5	1,100	370	700/650[2]
06/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490[2]
09/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640[2]
12/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540[2]
03/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330[2]
06/27/03[3]	50.31	9.25	41.06	9,500	390	6	450	30	470
09/30/03[3]	50.31	10.31	40.00	2,000	110	1	100	3	710
12/03/03[3]	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/04[3]	50.31	6.10	44.21	15,000	550	6	960	95	220
06/30/04[3]	50.31	9.80	40.51	3,200	150	1	100	3	660
09/30/04[3]	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/04[3]	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/05[3]	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05[3]	50.31	8.12	42.19	16,000	700	6	950	62	300
09/02/05[3]	50.31	9.41	40.90	8,400	380	4	510	41	440
12/02/05[3]	50.31	7.97	42.34	16,000	490	6	1,200	32	170
03/20/06[3]	50.31	5.32	44.99	4,200	79	0.8	2	10	34
06/01/06[3]	50.31	7.07	43.24	5,400	67	1	26	3	28
09/11/06[3]	50.31	9.07	41.24	14,000	270	5	240	38	97
DESTROYED									

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
MW-4									
03/12/02[1]	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170[2]
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120[2]
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	190/160[2]
12/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200[2]
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	160/100[2]
06/27/03[3]	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03[3]	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/03[3]	49.93	7.80	42.13	16,000	1,000	6	720	52	73
03/10/04[3]	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/04[3]	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04[3]	49.93	10.75	39.18	4,800	100	1	33	10	400
12/29/04[3]	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05[3]	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05[3]	49.93	7.95	41.98	6,400	290	2	11	11	18
09/02/05[3]	49.93	9.46	40.47	3,700	180	1	13	7	18
12/02/05[3]	49.93	7.60	42.33	11,000	840	5	480	24	34
03/20/06[3]	49.93	4.50	45.43	790	14	<0.5	1	0.6	2
06/01/06[3]	49.93	7.30	42.63	5,100	48	0.8	42	4	2
09/11/06[3]	49.93	9.38	40.55	6,700	64	3	44	3	4
DESTROYED									
TRIP BLANK									
QA									
03/12/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/01/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/27/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/03/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	--	--	--	<50	<0.5	<0.7	<0.8	<0.8	<0.5
12/29/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	--	--	--	<50	<0.5	1[4]	<0.5	1[4]	<0.5

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
	Groundwater ESL			**100**	**1**	**40**	**30**	**20**	**5**
QA (cont)									
12/02/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/01/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/11/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/27/08[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/21/08[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/13/09[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/08/09[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/07/09[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/14/12[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/13[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/06/13[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/19/14[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/07/15[3]	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 5

Groundwater Monitoring Data and Analytical Results

Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

EXPLANATIONS:

Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level
(µg/L) = Micrograms per liter

TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MtBE = Methyl tertiary-butyl ether

-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
EPA = Environmental Protection Agency

ESL = California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Level for groundwater that is a current or potential source of drinking water

* Current TOC elevations were surveyed on October 1, 2008, by CRA. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

[1] Well development performed.

[2] MtBE by EPA Method 8260.

[3] BTEX and MtBE by EPA Method 8260.

[4] Laboratory confirmed analytical result.

[5] BTEX by EPA Method 8260.

[6] Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	**NE**	**12**	**5**	**NE**	**NE**	**NE**	**0.5**	**0.05**	**5**
MW-5									
08/27/08	--	2	10	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	4	8	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	3	6	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	7	2	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	2	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	2	0.9	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<10	<3	<3	<3	<3	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	**--**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**	**--**	**--**
MW-6									
08/27/08	--	390	440	<0.5	<0.5	6	--	--	--
11/21/08	--	320	300	<13	<13	<13	--	--	--
02/13/09	--	100	180	<1	<1	4	--	--	--
05/08/09	--	16	38	<0.5	<0.5	0.9	--	--	--
08/07/09	--	190	330	<3	<3	5	--	--	--
11/05/09	--	86	160	<1	<1	4	--	--	--
05/06/10	--	2	9	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	98	160	<3	<3	3	--	--	--
05/10/11[1]	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	19	37	<1	<1	<1	--	--	--
05/11/12	--	<2	1	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	16	36	<0.5	<0.5	0.7	--	--	--
05/08/13	--	5	6	<0.5	<0.5	<0.5	--	--	--
11/06/13[2]	--	60	78	<1	<1	2	--	--	--
05/14/14	--	8	10	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	**--**	**3**	**2**	**<0.5**	**<0.5**	**<0.5**	**--**	**--**	**--**

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	**NE**	**12**	**5**	**NE**	**NE**	**NE**	**0.5**	**0.05**	**5**
MW-7									
08/27/08	--	<2	6	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	5	6	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	7	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	8	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	4	5	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	9	5	<1	<1	<1	--	--	--
05/06/10	--	3	6	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	6	4	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	3	5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	4	5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<20	<5	<5	<5	<5	--	--	--
11/14/12	--	<10	4	<3	<3	<3	--	--	--
05/08/13	--	<2	5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	4	<0.5	<0.5	<0.5	--	--	--
05/14/14[2]	--	<10	4	<1	<1	<1	--	--	<1
11/19/14	--	<2	5	<0.5	<0.5	<0.5	--	--	--
05/07/15	**--**	**2**	**3**	**<0.5**	**<0.5**	**<0.5**	**--**	**--**	**--**
MW-8									
08/27/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5
11/19/14	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/07/15	**--**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**	**--**	**--**

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	**NE**	**12**	**5**	**NE**	**NE**	**NE**	**0.5**	**0.05**	**5**
MW-1									
03/12/02	--	<100	<2	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED									
MW-2									
03/12/02	--	<100	3	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED									

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	**NE**	**12**	**5**	**NE**	**NE**	**NE**	**0.5**	**0.05**	**5**
MW-3									
03/12/02	--	<100	650	<2	<2	18	<2	<2	--
06/07/02	--	230	490	<5.0	<5.0	11	<5.0	<5.0	--
09/13/02	--	170	640	<2	<2	8	<2	<2	--
12/13/02	--	240	540	<2	<2	29	31	<2	--
03/01/03	--	160	330	<0.5	<0.5	10	<0.5	<0.5	--
06/27/03	--	200	470	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<50	120	710	<0.5	<0.5	6	0.7	<0.5	--
12/03/03	<250	200	420	<3	<3	14	<3	<3	--
03/10/04	<50	140	220	<0.5	<0.5	5	<0.5	<0.5	--
06/30/04	<50	100	660	<0.5	<0.5	5	<0.5	<0.5	--
09/30/04	<50	72	690	<0.5	<0.5	4	0.5	<0.5	--
12/31/04	<50	77	170	<0.5	<0.5	5	<0.5	<0.5	--
03/23/05	<50	<5	140	<0.5	<0.5	4	<0.5	3	--
06/22/05	<250	150	300	<3	<3	6	<3	<3	--
09/02/05	<100	99	440	<1	<1	<1	<1	<1	--
12/02/05	<100	66	170	<1	<1	5	<1	<1	--
03/20/06	<50	14	34	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	12	28	<0.5	<0.5	0.8	<0.5	<0.5	--
09/11/06	<50	47	97	<0.5	<0.5	2	<0.5	<0.5	--
DESTROYED									
MW-4									
03/12/02	--	<100	170	<2	<2	13	<2	<2	--
06/07/02	--	<100	120	<2	<2	14	<2	<2	--
09/13/02	--	<100	160	<2	<2	14	<2	<2	--
12/13/02	--	<100	200	<2	<2	17	<2	<2	--
03/01/03	--	19	100	<0.5	<0.5	8	<0.5	<0.5	--
06/27/03	--	22	130	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<100	<10	520	<1	<1	9	<1	<1	--
12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5	--
03/10/04	<50	11	55	<0.5	<0.5	4	<0.5	<0.5	--
06/30/04	<100	<10	110	<1	<1	6	<1	<1	--
09/30/04	<50	17	400	<0.5	<0.5	7	<0.5	<0.5	--
12/31/04	<50	11	42	<0.5	<0.5	2	<0.5	<0.5	--
03/23/05	<50	<5	24	<0.5	<0.5	1	<0.5	0.9	--
06/22/05	<50	15	18	<0.5	<0.5	1	<0.5	<0.5	--
09/02/05	<50	6	18	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05	<50	11	34	<0.5	<0.5	1	<0.5	<0.5	--

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029

890 West MacArthur Boulevard,

Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	**NE**	**12**	**5**	**NE**	**NE**	**NE**	**0.5**	**0.05**	**5**
MW-4 (cont)									
03/20/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/11/06	<50	<5	4	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED									

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

EXPLANATIONS:

Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories

TBA = Tertiary-Butyl Alcohol
MtBE = Methyl tertiary-butyl ether
DIPE = Di-Isopropyl Ether
EtBE = Ethyl Tertiary-Butyl Ether
TAME = Tertiary-Amyl Methyl Ether
1,2-DCA = 1,2-Dichloroethane
1,2-DBA = 1,2-Dibromoethane
PCE = Tetrachloroethene
(µg/L) = Micrograms per liter
-- = Not Analyzed
EPA = Environmental Protection Agency
ESL = California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Level for groundwater that is a current or potential source of drinking water
NE = ESL not established

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

[1] Laboratory confirmed analytical result.

[2] Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

Table 7
Well Survey Results
Former Chevron-branded Service Station 92029
890 West MacArthur Boulevard
Oakland, California

Map ID	State Well ID	Distance from Site[1] (feet)	Direction from Site[1]	Use	Installation Date	Comments
1	1S4W23F1	200	North (cross-gradient)	Cathodic Protection	04/19/74	
2	Various	530	North (cross-gradient)	Monitoring	07/18/97	Three monitoring wells in cluster
3	Various	730	East-Southeast (cross-gradient)	Monitoring	02/23/88 - 06/18/93	Nine monitoring wells in cluster
4	--	780	North (cross-gradient)	Industrial	05/08/28	Thought to be destroyed

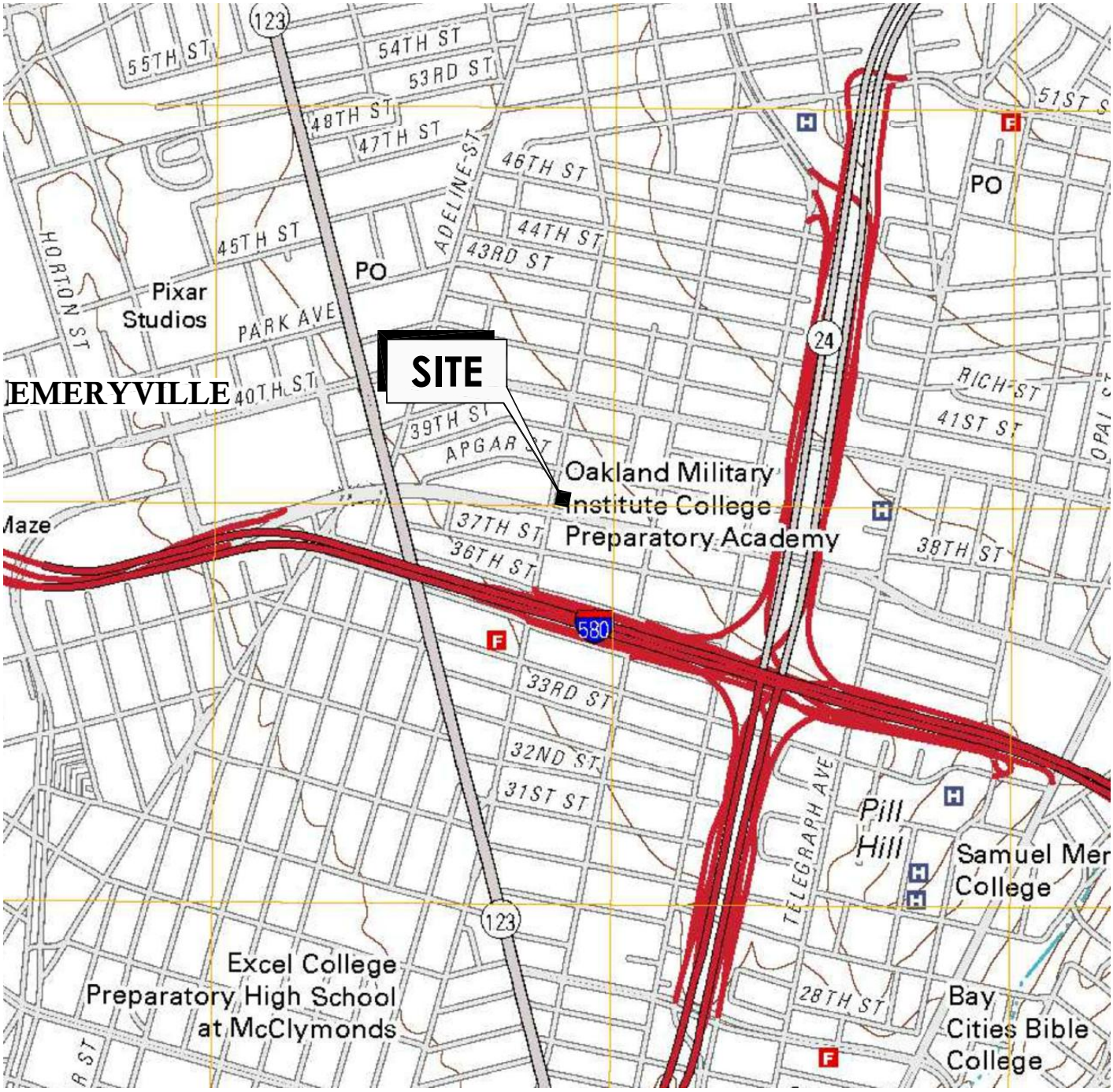
Notes:

(1) Approximate distance and direction determined from well location address and/or drawings on boring logs, where available, and Google Earth® images.

Abbreviations:

-- = information not available

FIGURES



CALIFORNIA

1 1/2 0 1

SCALE IN MILES

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; OAKLAND WEST, CALIFORNIA; 2012

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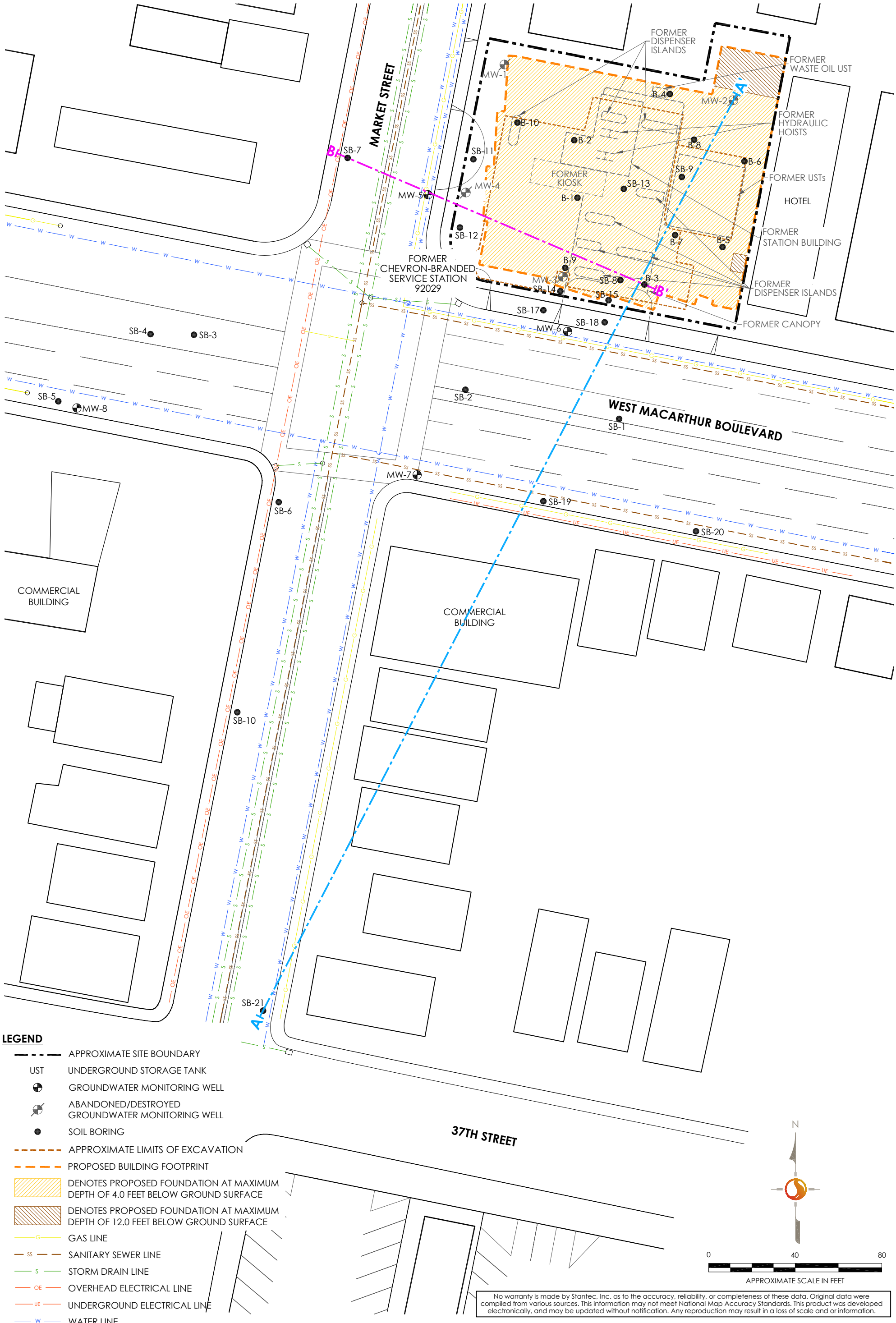
Los Gatos, CA 95032
Phone: (408) 356-6124 Fax: (408) 356-6138

FOR:			FIGURE:
FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA		SITE LOCATION MAP	1
JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO	APPROVED BY: TLF	DATE: 07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Figures\92029_SLM-2015.dwg | jopalekopsahl | Jul 27, 2015 at 10:25 | Layout: Fig 1_SLM



LEGEND

- APPROXIMATE SITE BOUNDARY
- UST — UNDERGROUND STORAGE TANK
- GROUNDWATER MONITORING WELL
- ABANDONED/DESTROYED GROUNDWATER MONITORING WELL
- SOIL BORING
- APPROXIMATE LIMITS OF EXCAVATION
- PROPOSED BUILDING FOOTPRINT
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 4.0 FEET BELOW GROUND SURFACE
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 12.0 FEET BELOW GROUND SURFACE
- G — GAS LINE
- SS — SANITARY SEWER LINE
- S — STORM DRAIN LINE
- OE — OVERHEAD ELECTRICAL LINE
- UE — UNDERGROUND ELECTRICAL LINE
- W — WATER LINE
- A — A' — CROSS-SECTION LOCATOR

NOTE

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

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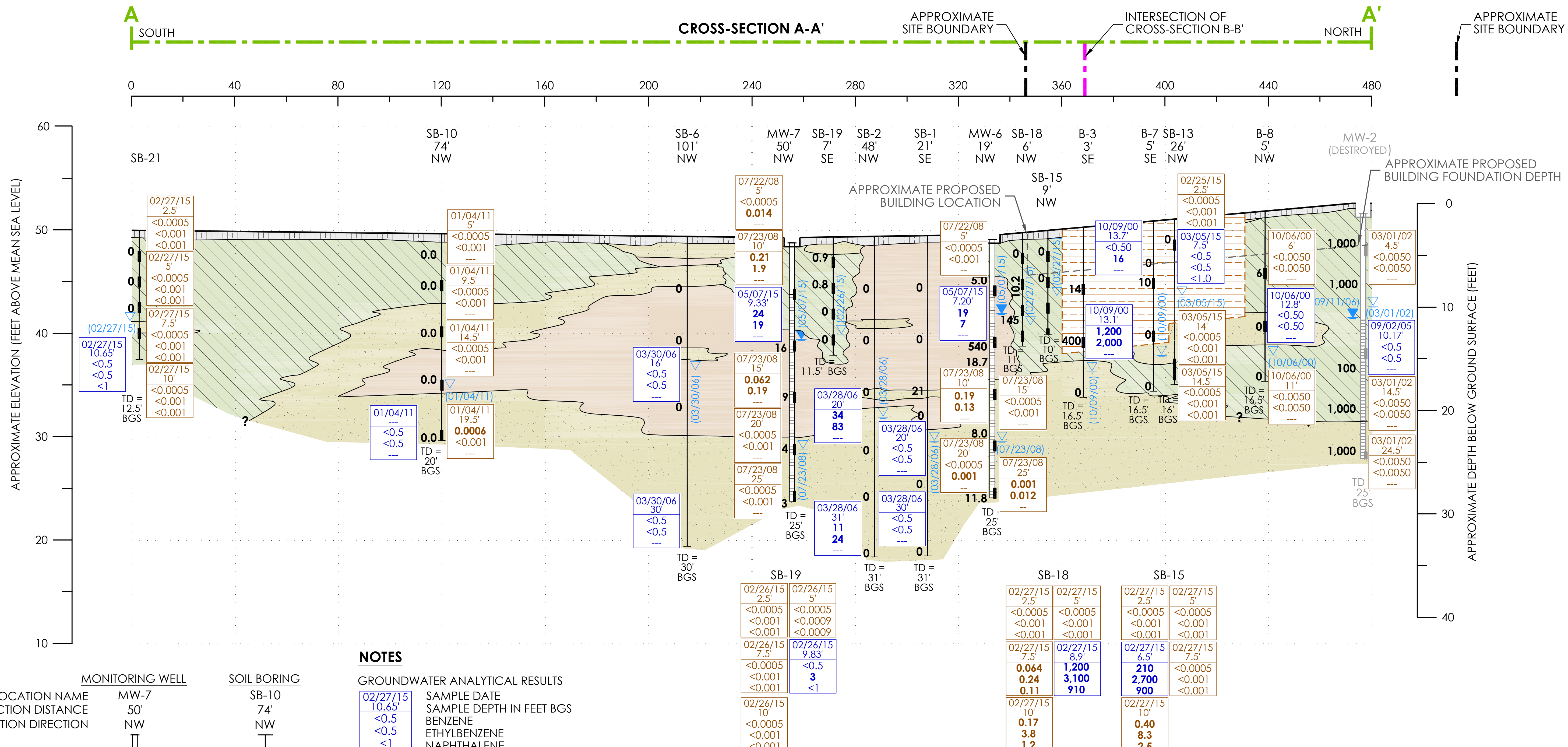
Los Gatos, CA 95032
Phone:(408) 356-6124 Fax: (408) 356-6138

FOR:		FIGURE:
FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA	SITE PLAN SHOWING CROSS-SECTION LOCATIONS	2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602398	JRO	EEO	GPM	07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Figures\92029_2015.dwg | jopalekopsahl | Jul 23, 2015 at 13:03 | Layout: Fig 2_SP-XS



LEGEND

	MONITORING WELL	SOIL BORING
LOCATION NAME	MW-7	SB-10
PROJECTION DISTANCE	50'	74'
PROJECTION DIRECTION	NW	NW
BLANK CASING		
PID READING (ppm)	16	0
MOST RECENT DEPTH-TO-GROUNDWATER MEASUREMENT (DATE) / FIRST ENCOUNTERED DEPTH-TO-GROUNDWATER (DATE)		
SCREEN INTERVAL		
TOTAL DEPTH	TD	TD
BELOW GROUND SURFACE	BGS	BGS
UNCERTAINTY	?	?

PID PHOTOIONIZATION DETECTOR

(ppm) PARTS PER MILLION

NOTES

GROUNDWATER ANALYTICAL RESULTS

02/27/15	SAMPLE DATE
10.65'	SAMPLE DEPTH IN FEET BGS
<0.5	BENZENE
<0.5	ETHYLBENZENE
<1	NAPHTHALENE

GROUNDWATER RESULTS IN MICROGRAMS PER LITER (µg/L)

SOIL ANALYTICAL RESULTS

02/27/15	SAMPLE DATE
2.5'	SAMPLE DEPTH IN FEET BGS
<0.0005	BENZENE
<0.001	ETHYLBENZENE
<0.001	NAPHTHALENE

SOIL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

--- NOT ANALYZED

BOLD TEXT DENOTES CONCENTRATIONS EXCEEDING METHOD DETECTION LIMITS (MDLs).

SOIL ANALYTICAL RESULTS NOT SHOWN FOR SOIL BORINGS B-3 AND B-7 BECAUSE THE SOIL REPRESENTING SAMPLES COLLECTED FROM THOSE BORINGS WAS EXCAVATED.

APPROXIMATE LIMITS OF EXCAVATION

BACKFILL

CLAYEY SAND (SC), SAND WITH GRAVEL (SW), SILTY SAND (SM), AND GRAVEL (GW,GM)

CLAY (CL/CH)

SILT (ML)

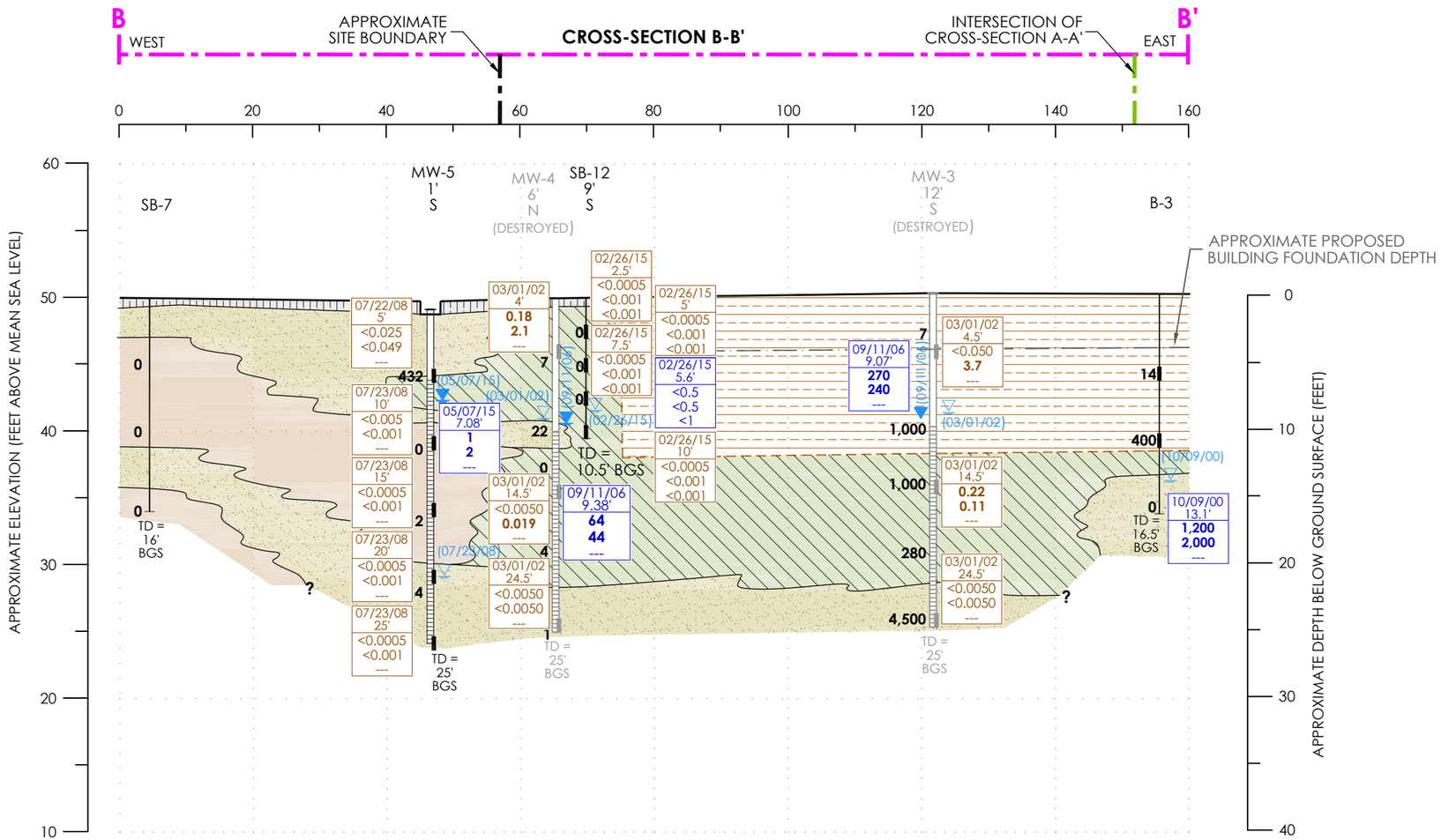
Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone: (408) 356-6124 Fax: (408) 356-6138

FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GENERALIZED GEOLOGIC CROSS-SECTION A-A'

FIGURE: 3

JOB NUMBER: 211602398 | DRAWN BY: JRO | CHECKED BY: EEO | APPROVED BY: GPM | DATE: 07/24/15



LEGEND

	MONITORING WELL	SOIL BORING
LOCATION NAME	MW-5	SB-12
PROJECTION DISTANCE	1'	4'
PROJECTION DIRECTION	S	S
BLANK CASING		
PID READING (ppm)	**432**	**0**
MOST RECENT DEPTH-TO-GROUNDWATER MEASUREMENT (DATE)		
FIRST ENCOUNTERED DEPTH-TO-GROUNDWATER (DATE)		
SCREEN INTERVAL		
TOTAL DEPTH BELOW GROUND SURFACE	TD BGS	TD BGS
UNCERTAINTY	?	?

PID PHOTOIONIZATION DETECTOR
(ppm) PARTS PER MILLION

NOTES

GROUNDWATER ANALYTICAL RESULTS

05/07/15 10.65' — SAMPLE DATE, SAMPLE DEPTH IN FEET BGS
1 — BENZENE
2 — ETHYLBENZENE
--- — NAPHTHALENE

GROUNDWATER RESULTS IN MICROGRAMS PER LITER (µg/L)

SOIL ANALYTICAL RESULTS

07/22/08 2.5' — SAMPLE DATE, SAMPLE DEPTH IN FEET BGS
<0.0005 — BENZENE
0.014 — ETHYLBENZENE
--- — NAPHTHALENE

SOIL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

--- NOT ANALYZED

BOLD TEXT DENOTES CONCENTRATIONS EXCEEDING METHOD DETECTION LIMITS (MDLs).

SOIL ANALYTICAL RESULTS NOT SHOWN FOR SOIL BORING B-3 BECAUSE THE SOIL REPRESENTING SAMPLES COLLECTED FROM THE BORING WAS EXCAVATED.

APPROXIMATE LIMITS OF EXCAVATION

BACKFILL

CLAYEY SAND (SC), SAND WITH GRAVEL (SW), SILTY SAND (SM), AND GRAVEL (GW,GM)

CLAY (CL/CH)

SILT (ML)

0 10 20 APPROXIMATE SCALE IN FEET

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone:(408) 356-6124 Fax: (408) 356-6138

FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GENERALIZED GEOLOGIC CROSS-SECTION B-B'

FIGURE: 4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602398	JRO	EEO	GPM	07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Figures\92029_2015.dwg | jopalekopsahl | Aug 06, 2015 at 9:18 | Layout: Fig 4_XS-B

LEGEND

- APPROXIMATE SITE BOUNDARY
- UST — UNDERGROUND STORAGE TANK
- GROUNDWATER MONITORING WELL
- ABANDONED/DESTROYED GROUNDWATER MONITORING WELL
- SOIL BORING
- APPROXIMATE LIMITS OF EXCAVATION
- PROPOSED BUILDING FOOTPRINT
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 4.0 FEET BELOW GROUND SURFACE
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 12.0 FEET BELOW GROUND SURFACE
- (2,700) (03/28/06) — TPH-GRO CONCENTRATION (µg/L) DATE OF SAMPLE
- (NS) — NOT SAMPLED
- EXTENT OF HISTORICAL DETECTABLE TPH-GRO CONCENTRATIONS
- ESTIMATED AVERAGE PLUME LENGTH (100 µg/L)
- ESTIMATED 90TH PERCENTILE PLUME LENGTH (100 µg/L)
- ESTIMATED MAXIMUM PLUME LENGTH (100 µg/L)
- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- (µg/L) — MICROGRAMS PER LITER

NOTES

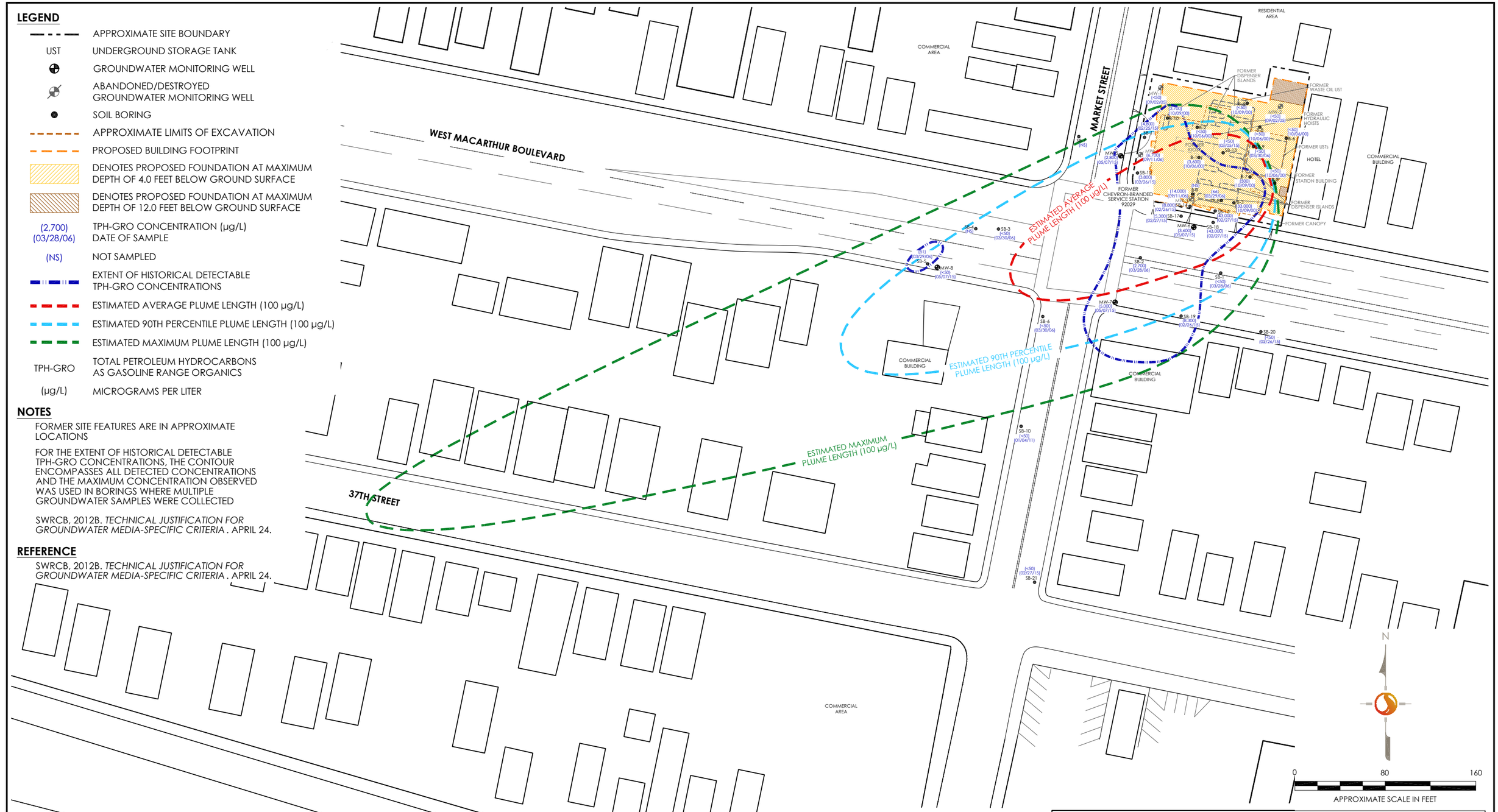
FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

FOR THE EXTENT OF HISTORICAL DETECTABLE TPH-GRO CONCENTRATIONS, THE CONTOUR ENCOMPASSES ALL DETECTED CONCENTRATIONS AND THE MAXIMUM CONCENTRATION OBSERVED WAS USED IN BORINGS WHERE MULTIPLE GROUNDWATER SAMPLES WERE COLLECTED

SWRCB, 2012B. *TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA* . APRIL 24.

REFERENCE

SWRCB, 2012B. *TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA* . APRIL 24.



Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone:(408) 356-6124 Fax: (408) 356-6138

FOR:			FIGURE:
FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA		TPH-GRO CONCENTRATION MAP	5
JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO	APPROVED BY: GPM/TLF	DATE: 07/24/15

FILEPATH:C:\Users\jopalekopsahl\Documents\AutoCad Homework\3Q15\92029\92029_SIR_2015.dwg | JOpalekOpsahl | Sep 01, 2015 at 16:05 | Layout: Fig 5_TPHg

LEGEND

— · — · —	APPROXIMATE SITE BOUNDARY
UST	UNDERGROUND STORAGE TANK
⊕	GROUNDWATER MONITORING WELL
⊗	ABANDONED/DESTROYED GROUNDWATER MONITORING WELL
•	SOIL BORING
- - - (brown)	APPROXIMATE LIMITS OF EXCAVATION
- - - (orange)	PROPOSED BUILDING FOOTPRINT
(yellow hatch)	DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 4.0 FEET BELOW GROUND SURFACE
(brown hatch)	DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 12.0 FEET BELOW GROUND SURFACE
(3,600) (10/06/00)	BENZENE CONCENTRATION (μg/L) DATE OF SAMPLE
(NS)	NOT SAMPLED
— · — (dark blue)	EXTENT OF HISTORICAL DETECTABLE BENZENE CONCENTRATIONS
- - - (red)	ESTIMATED AVERAGE PLUME LENGTH (5 μg/L)
- - - (light blue)	ESTIMATED 90TH PERCENTILE PLUME LENGTH (5 μg/L)
- - - (green)	ESTIMATED MAXIMUM PLUME LENGTH (5 μg/L)
(μg/L)	MICROGRAMS PER LITER

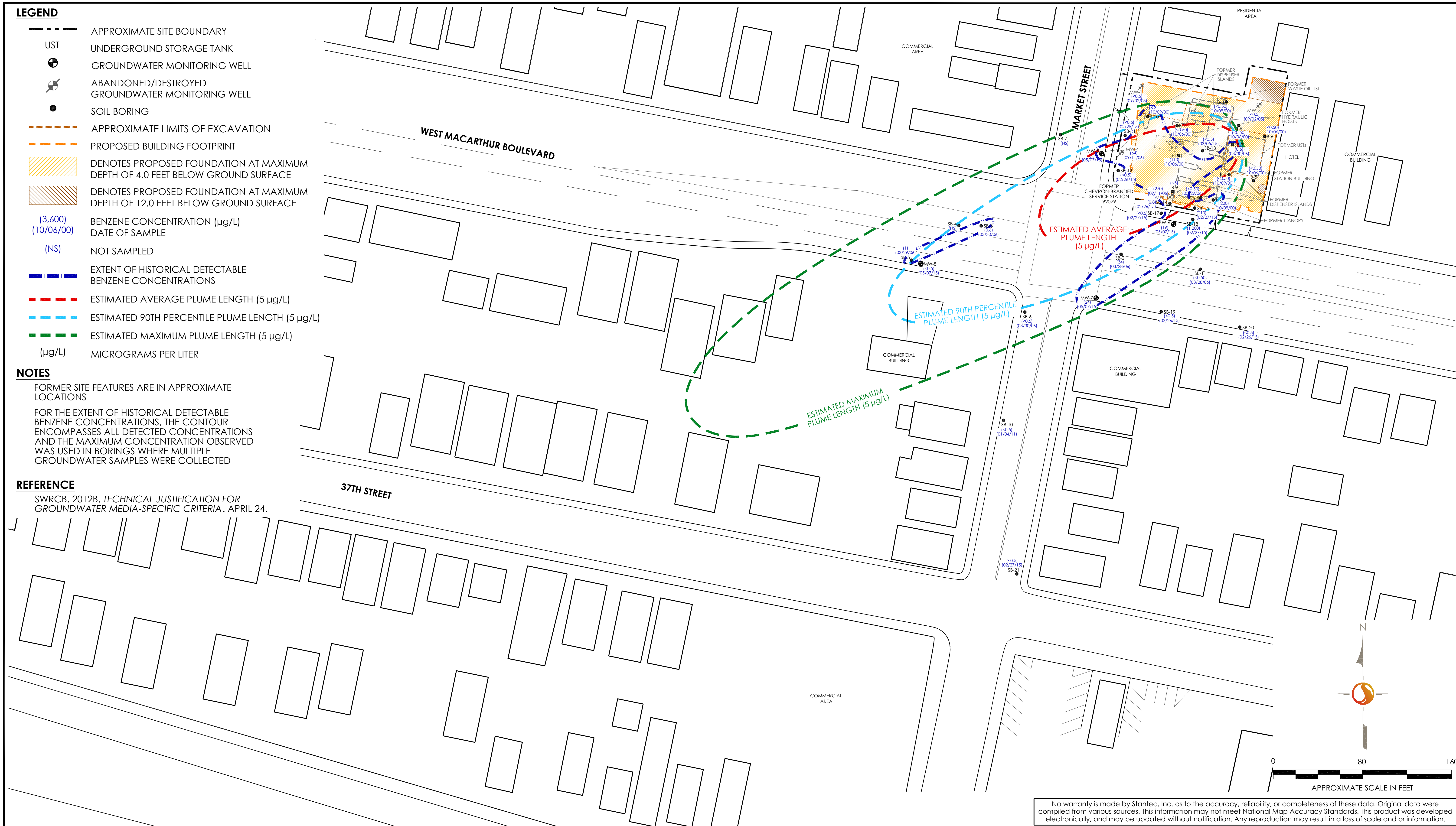
NOTES

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

FOR THE EXTENT OF HISTORICAL DETECTABLE BENZENE CONCENTRATIONS, THE CONTOUR ENCOMPASSES ALL DETECTED CONCENTRATIONS AND THE MAXIMUM CONCENTRATION OBSERVED WAS USED IN BORINGS WHERE MULTIPLE GROUNDWATER SAMPLES WERE COLLECTED

REFERENCE

SWRCB, 2012B. *TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA*. APRIL 24.



Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone: (408) 356-6124 Fax: (408) 356-6138

FOR:				FIGURE:
FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA		BENZENE CONCENTRATION MAP		6
JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO	APPROVED BY: GPM/TLF	DATE: 07/24/15

LEGEND

- APPROXIMATE SITE BOUNDARY
- UST — UNDERGROUND STORAGE TANK
- GROUNDWATER MONITORING WELL
- ABANDONED/DESTROYED GROUNDWATER MONITORING WELL
- SOIL BORING
- APPROXIMATE LIMITS OF EXCAVATION
- PROPOSED BUILDING FOOTPRINT
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 4.0 FEET BELOW GROUND SURFACE
- DENOTES PROPOSED FOUNDATION AT MAXIMUM DEPTH OF 12.0 FEET BELOW GROUND SURFACE
- (810) (10/06/00) — MtBE CONCENTRATION (µg/L) DATE OF SAMPLE
- (NS) — NOT SAMPLED
- EXTENT OF HISTORICAL DETECTABLE MtBE CONCENTRATIONS
- ESTIMATED AVERAGE PLUME LENGTH (5 µg/L)
- ESTIMATED 90TH PERCENTILE PLUME LENGTH (5 µg/L)
- ESTIMATED MAXIMUM PLUME LENGTH (5 µg/L)
- MtBE — METHYL TERTIARY-BUTYL ETHER
- (µg/L) — MICROGRAMS PER LITER

NOTES

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

FOR THE EXTENT OF HISTORICAL DETECTABLE MtBE CONCENTRATIONS, THE CONTOUR ENCOMPASSES ALL DETECTED CONCENTRATIONS AND THE MAXIMUM CONCENTRATION OBSERVED WAS USED IN BORINGS WHERE MULTIPLE GROUNDWATER SAMPLES WERE COLLECTED

REFERENCE

SWRCB, 2012B. *TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA*. APRIL 24.

WEST MACARTHUR BOULEVARD
MARKET STREET
37TH STREET
MACARTHUR FREEWAY (580)
RESIDENTIAL AREA
COMMERCIAL AREA
COMMERCIAL BUILDING
HOTEL
FORMER CHEVRON-BRANDED SERVICE STATION 92029
FORMER DISPENSER ISLANDS
FORMER WASTE OIL UST
FORMER HYDRAULIC HOISTS
FORMER USTs
FORMER STATION BUILDING
FORMER CANOPY
ESTIMATED AVERAGE PLUME LENGTH (5 µg/L)
ESTIMATED 90TH PERCENTILE PLUME LENGTH (5 µg/L)
ESTIMATED MAXIMUM PLUME LENGTH (5 µg/L)

N

0 80 160
APPROXIMATE SCALE IN FEET

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone:(408) 356-6124 Fax: (408) 356-6138

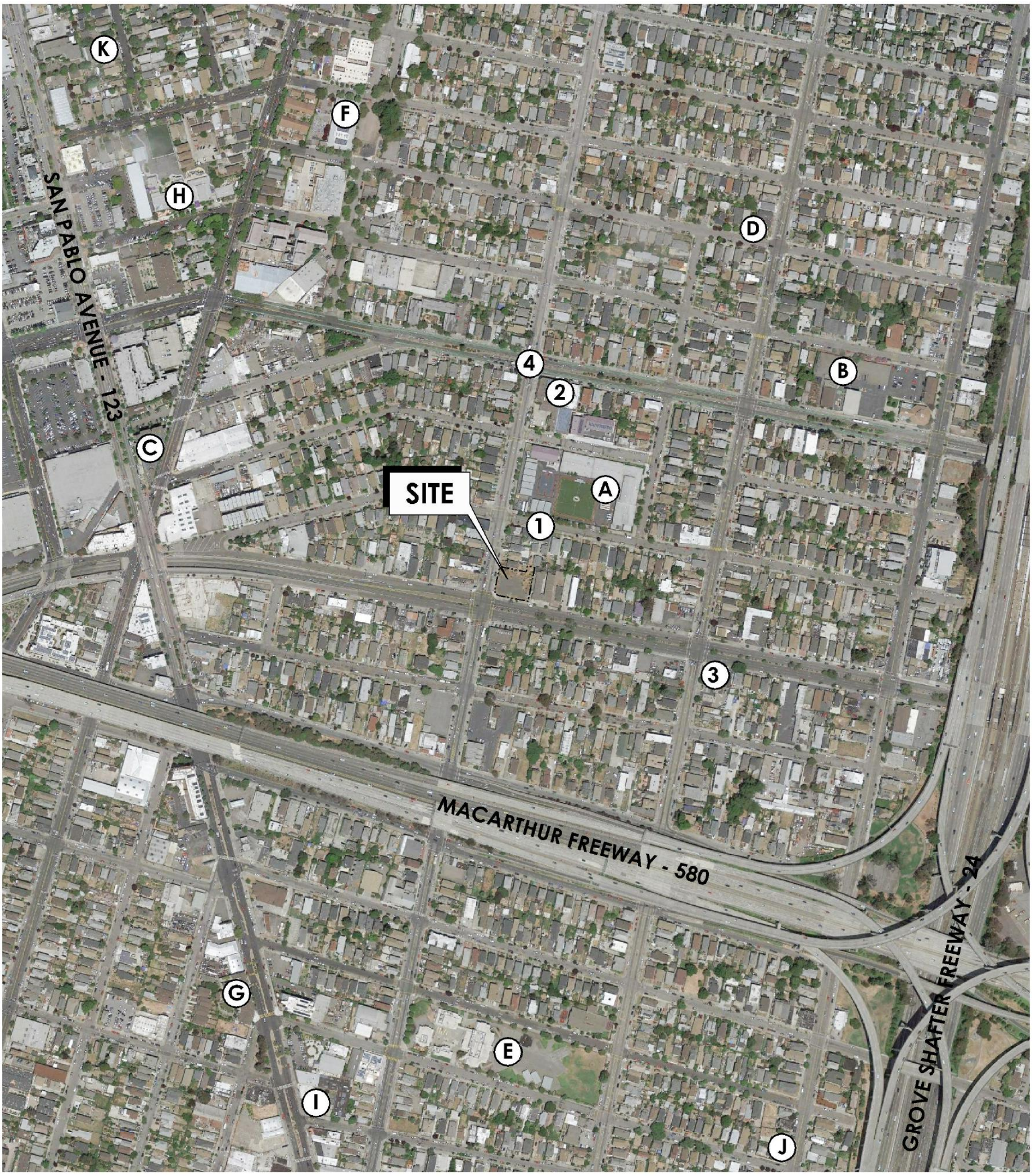
FOR:
FORMER CHEVRON-BRANDED SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

MtBE CONCENTRATION MAP

FIGURE: 7

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602398	JRO	EEO	GPM/TLF	07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Site Investigation Report 2015\Figures\92029_SIR_2015.dwg | jopalekopsahl | Sep 02, 2015 at 8:25 | Layout: Fig 7_MBE



LEGEND

POTENTIAL SENSITIVE POPULATIONS WITHIN 0.5-MILE RADIUS OF SITE:

- (A) OAKLAND MILITARY INSTITUTE, 3877 LUSK STREET
- (B) SAINT MARTIN DE PORRES CATHOLIC SCHOOL, 675 41ST STREET
- (C) AVALON SENIOR HOUSING, 3850 SAN PABLO AVENUE
- (D) HENDERSON RESIDENTIAL CARE, 4201 WEST STREET
- (E) HOOVER ELEMENTARY AND JUNIOR HIGH SCHOOL, 890 BROCKHURST STREET
- (F) NORTH OAKLAND COMMUNITY CHARTER SCHOOL, 1000 42ND STREET
- (G) SYLVESTER RUTLEDGE MANOR, 3255 SAN PABLO AVENUE
- (H) ANNA YATES ELEMENTARY SCHOOL, 1070 41ST STREET
- (I) ST. MARY'S CENTER PRESCHOOL, 3208 SAN PABLO AVENUE
- (J) LOVE ALWAYS CHILD CARE CENTER, 3261 MARTIN LUTHER KING JR. WAY
- (K) EMERYVILLE SENIOR CENTER, 4321 SALEM STREET

WELLS WITHIN 1,000-FOOT RADIUS OF SITE:

- (1) CATHODIC PROTECTION WELL
- (2) MONITORING WELL CLUSTER
- (3) MONITORING WELL CLUSTER
- (4) INDUSTRIAL WELL; THOUGHT TO BE DESTROYED

N

0 400 800

APPROXIMATE SCALE IN FEET

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone: (408) 356-6124 Fax: (408) 356-6138

FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SENSITIVE POPULATION AND WELL SURVEY RESULTS

FIGURE: 8

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602398	JRO	EEO	GPM/TLF	07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Site Investigation Report 2015\Figures\92029_SIR_2015.dwg | jopalekopsahl | Jul 27, 2015 at 10:29 | Layout: Fig 8_SPWS

3801
MARKET STREET

SITE:
890 WEST
MACARTHUR BOULEVARD

WEST MACARTHUR BOULEVARD

921 WEST MACARTHUR
BOULEVARD
NO SURVEY SENT;
OPEN AIR CAR WASH

891 WEST MACARTHUR
BOULEVARD

883 WEST
MACARTHUR
BOULEVARD

885 WEST
MACARTHUR
BOULEVARD

881 WEST
MACARTHUR
BOULEVARD

3720
MARKET STREET

3717
MARKET STREET

3716
MARKET STREET

3711
MARKET STREET

3712
MARKET STREET

3707
MARKET STREET

3708
MARKET STREET

3703
MARKET STREET

3700
MARKET STREET

MARKET STREET

37TH STREET

N

0 40 80

APPROXIMATE SCALE IN FEET

LEGEND

- APPROXIMATE PROPERTY BOUNDARY (ADDRESS)
- BASEMENT
- SUMP
- NO REPLY

NOTE

ADDRESSES ARE ONLY SHOWN ON PROPERTIES THAT A SURVEY WAS SENT TO, UNLESS OTHERWISE NOTED.

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone:(408) 356-6124 Fax: (408) 356-6138

FOR:
FORMER CHEVRON-BRANDED
SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

NEIGHBORHOOD SURVEY RESULTS

FIGURE: 9

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602398	JRO	EEO	TLF	07/24/15

FILEPATH:P:\Chevron\N. CA Marketing Sites\Carryl MacLeod Portfolio\92029\Site Investigation Report 2015\Figures\92029 SIR 2015.dwg | jopalekopsahl | Jul 31, 2015 at 15:35 | Layout: Fig 9 PSR

APPENDIX A
ALAMEDA COUNTY ENVIRONMENTAL HEALTH CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

July 9, 2014

Mr.Carryl MacLeod
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to: CMacleod@chevron.com)

WestMac LLC
1842 21st Avenue
San Francisco, CA 94122
(sent via electronic mail to: gathconstruc@aol.com) and sokaneconst@hotmail.com)

Mr. Buyandalai Itgel
787 Marlesta Road
Pinole, CA 94564
(sent via electronic mail to: teamspirit74@yahoo.com)

Subject: Work Plan Approval; Fuel Leak Case No. RO00002438; Chevron #9-2029 (Global ID #T0600173887), 890 MacArthur Blvd, Oakland, CA 94608

Dear Ms. MacLeod, WestMac LLC, and Mr. Itgel:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Work Plan Addendum,* dated June 11, 2014. The report was prepared and submitted on your behalf by generated by Stantec Consulting Services, Inc (Stantec).

ACEH has previously evaluated the data and recommendations presented in case files, and the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACEH staff review, we determined that the site fails to meet the LTCP General Criteria e (Site Conceptual Model), and the Media-Specific Criteria for Groundwater, and the Media-Specific Criteria for Vapor Intrusion to Indoor Air (see Attachment A for a copy of the LTCP checklist). ACEH's determination is based on insufficient data and analysis to support groundwater plume stability and delineation, and protection of human occupants of future site buildings from vapor intrusion.

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

TECHNICAL COMMENTS

1. **Site Investigation Report** – The referenced work plan proposes a series of actions with which ACEH is in general agreement of undertaking. Please submit a report by the date specified below.
2. **Groundwater Monitoring –** Please continue to conduct semi-annual groundwater monitoring at the subject site and submit report on the schedule listed below.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with Attachment 1 and the following specified file naming convention and schedule:

- **July 14, 2014 –** Semi-Annual Groundwater Monitoring Report
  File to be named: RO2438_WP_R_yyyy-mm-dd
- **September 12, 2014 –** Site Investigation Report
  File to be named: RO2438_SWI_R_yyyy-mm-dd
- **January 16, 2015 –** Semi-Annual Groundwater Monitoring Report
  File to be named: RO2438_GWM_R_yyyy-mm-dd

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

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Thank you for your cooperation. If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email, c=US
Date: 2014.07.09 15:15:26 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

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

cc: Travis Flora, Stantec Consulting Services, Inc, 15575 Los Gatos Blvd, Bldg C, Los Gatos, CA 95032 (sent via electronic mail to: Travis.Flora@Stantec.com)

Dan McGue, Paragon Real Estate Group, 1400 Van Ness Avenue, San Francisco, CA 94109 (sent via electronic mail to: DanMcGue@paragon.re.com)

Dilan Roe (sent via electronic mail to dilan.roe@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

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

REQUIREMENTS

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

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

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

From: Flora, Travis
Sent: Friday, August 22, 2014 1:49 PM
To: Espino, Belinda
Subject: FW: Chevron 92029, 890 W MacArthur Boulevard, Oakland, CA (Case #: RO00002438)
Attachments: RO0002438_CORRES_2014-08-18.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Travis L. Flora
Associate Project Manager
Stantec
15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569
Phone: (408) 827-3876
Cell: (408) 458-6320
Travis.Flora@stantec.com

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Thursday, August 21, 2014 16:52
To: MacLeod, Carryl G; Flora, Travis
Subject: FW: Chevron 92029, 890 W MacArthur Boulevard, Oakland, CA (Case #: RO00002438)

Carryl and Travis,
Thanks for the update on the site. Please be aware that Oakland prohibits drilling from approximately November 1 to January 1 each year due to the holidays. Please expedite permitting to the extent possible given this consideration. While the requested extension is longer than most, ACEH is aware that the Oakland permitting process is lengthy. Please use this email to document the extension to November 14, 2014.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Flora, Travis [mailto:Travis.Flora@stantec.com]
Sent: Thursday, August 21, 2014 3:28 PM
To: Detterman, Mark, Env. Health
Cc: MacLeod, Carryl G
Subject: Chevron 92029, 890 W MacArthur Boulevard, Oakland, CA (Case #: RO00002438)

Hi Mark,
As requested, a copy of the extension request for RO2438 is attached. This extension request is due to the delays associated with Oakland encroachment permitting. We also discuss the issue of the City indicating that they will not allow work in the sidewalk. Because of the data we need near MW-6, and the lack of alternative options (an alternative like we're proposing for RO0138 would not be appropriate for this site), we are going to see if we can push the City to approve the sidewalk work. If they will not approve sidewalk work, we may have to cancel the sidewalk locations or wait until the sidewalk is temporarily closed during redevelopment to access those locations.

Because of the pending redevelopment, we kept the requested due date for this work sooner than the other extension requests.

Regards,

Travis L. Flora
Associate Project Manager
Stantec
15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569
Phone: (408) 827-3876
Cell: (408) 458-6320
Travis.Flora@stantec.com

From: Detterman, Mark, Env. Health <Mark.Detterman@acgov.org>
Sent: Friday, November 07, 2014 5:17 PM
To: 'MacLeod, Carryl G'; Flora, Travis
Cc: Coulter, Alexis N; Roe, Dilan, Env. Health
Subject: Chevron 92029; RO2438; Extension Request Approval
Attachments: EXT_RQ_L_2014-10-30.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Carryl and Travis,

Thank you for the October 30, 2014 letter notifying ACEH of delays in permitting the proposed work through the city of Oakland. ACEH is also aware that Oakland has a restriction on street work between approximately November 1 and January 1 of a year. Consequently, it appears reasonable to extend the delivery due date to the proposed date of March 13, 2015. Please use this email to document ACEH concurrence. I will update Geotracker shortly.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

Flora, Travis

From: Detterman, Mark, Env. Health <Mark.Detterman@acgov.org>
Sent: Thursday, February 26, 2015 16:32
To: Flora, Travis
Cc: MacLeod, Carryl G
Subject: RE: Chevron 92029; RO2438; Extension Request Approval

Follow Up Flag: Follow up
Flag Status: Flagged

Carryl and Travis,
I've extended the deadline until April 17th. But it is great to see some progress on the site for Mr. Itgel's development.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Flora, Travis [mailto:Travis.Flora@stantec.com]
Sent: Wednesday, February 25, 2015 12:35 PM
To: Detterman, Mark, Env. Health
Cc: dehloptoxic, Env. Health
Subject: RE: Chevron 92029; RO2438; Extension Request Approval

Hi Mark,
The attached extension request for RO2438 was just uploaded to GeoTracker and the ACEH FTP site.

Thanks,

Travis L. Flora
Associate Project Manager
Stantec
15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569
Phone: (408) 827-3876
Cell: (408) 458-6320
Travis.Flora@stantec.com

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Friday, November 07, 2014 14:17
To: 'MacLeod, Carryl G'; Flora, Travis
Cc: Coulter, Alexis N; Roe, Dilan, Env. Health
Subject: Chevron 92029; RO2438; Extension Request Approval

Carryl and Travis,

Thank you for the October 30, 2014 letter notifying ACEH of delays in permitting the proposed work through the city of Oakland. ACEH is also aware that Oakland has a restriction on street work between approximately November 1 and January 1 of a year. Consequently, it appears reasonable to extend the delivery due date to the proposed date of March 13, 2015. Please use this email to document ACEH concurrence. I will update Geotracker shortly.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

Flora, Travis

From: Detterman, Mark, Env. Health <Mark.Detterman@acgov.org>
Sent: Wednesday, April 08, 2015 09:58
To: Flora, Travis
Cc: MacLeod, Carryl G
Subject: RE: RO2438 - Chevron 92029 - 898 W. MacArthur Blvd., Oakland

Travis,
Please use this response to document ACEH concurrence with the extension request.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Flora, Travis [mailto:Travis.Flora@stantec.com]
Sent: Monday, March 30, 2015 2:23 PM
To: Detterman, Mark, Env. Health
Cc: MacLeod, Carryl G
Subject: RO2438 - Chevron 92029 - 898 W. MacArthur Blvd., Oakland

Hi Mark,
I heard your voicemail with tentative agreement on a 4/22 meeting at 10am. We'll hold that time pending your confirmation with Dilan. We'd also like to request a 2-week extension on that report, which is currently due 4/17, to 4/30 so that we can incorporate potential changes from our discussion.

Thanks,

Travis L. Flora
Associate Project Manager
Stantec
15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569
Phone: (408) 827-3876
Cell: (408) 458-6320
Travis.Flora@stantec.com

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Monday, June 22, 2015 2:08 PM
To: 'Flora, Travis'; MacLeod, Carryl G
Subject: RE: Chevron 92029; RO2438; Extension Request
Attachments: RO0002438_CORRES_2015-06-22.pdf

Carryl and Travis,
Thanks for the update on the site. ACEH is in agreement that an extension is appropriate, has extended the delivery date to August 31, 2015, and updated Geotracker to reflect this change.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Flora, Travis [mailto:Travis.Flora@stantec.com]
Sent: Monday, June 22, 2015 12:36 AM
To: Detterman, Mark, Env. Health
Cc: dehloptoxic, Env. Health
Subject: Chevron 92029; RO2438; Extension Request

Hi Mark,
The attached extension request for Chevron 92029 – RO2438 was uploaded to GeoTracker and the ACEH FTP site.

Thanks,

Travis L. Flora
Associate Project Manager
Stantec
15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569
Phone: (408) 827-3876
Cell: (408) 458-6320
Travis.Flora@stantec.com

APPENDIX B
SOIL BORING LOGS

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-11**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/25/15** COMPLETED: **2/25/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8** BOREHOLE DEPTH (ft): **11**
STATIC DTW (ft): **6.05** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		GW	**WELL-GRADED SAND AND GRAVEL** ; GW; 10YR 3/3 dark brown; loose; dry; subangular; fine to coarse-grained gravel; (50,50,0,0)						
		CH	**FAT CLAY TRACE COARSE SAND** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0,5,0,95)		1320 SB-11@2.5			0	
5			2.5Y 4/1 dark gray; mottled; Same As Above		1340 SB-11@5			0.1	5
		CL	**SANDY CLAY** ; CL; 2.5Y 4/1 dark gray; low plasticity; soft; dry; iron oxide staining; fine to coarse-grained sand; (0,40,0,60)		1400 SB-11@7.5			0.1	
		GW-GC	**GRAVEL AND SAND WITH CLAY** ; GW-GC; 2.5Y 4/6 olive brown; soft; saturated; fine to coarse-grained sand and gravel; (40,40,0,20)						
10			2.5Y 4/1 dark gray; Same As Above		1415 SB-11@10			--	10
			Borehole terminated at 11 feet.						

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-12**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/26/15** COMPLETED: **2/26/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8.5** BOREHOLE DEPTH (ft): **10.5**
STATIC DTW (ft): **5.6** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		GW	**WELL-GRADED SAND AND GRAVEL** ; GW; 10YR 3/3 dark brown; loose; dry; subangular; fine to coarse-grained gravel; (50,50,0,0)						
		CH	**FAT CLAY TRACE COARSE SAND** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0,5,0,95)		0745 SB-12@2.5			0	
5			2.5Y 4/1 dark gray; mottled; Same As Above		0755 SB-12@5			0	5
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; hard; dry; iron oxide staining; (0,0,40,60)		0820 SB-12@7.5			0	
		CL	**SANDY CLAY WITH GRAVEL** ; CL; 2.5Y 4/1 dark gray; low plasticity; soft; saturated; fine to coarse-grained sand and gravel; (20,30,0,50)						
10					0830 SB-12@10			--	10
			Borehole terminated at 10.5 feet.						

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-13**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/25/15** COMPLETED: **3/5/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger/ GeoProbe**
DRILLING METHOD: **HandAuger/ Geoprobe**
SAMPLING EQUIPMENT: **6" Sleeve/ Acetate liners**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8** BOREHOLE DEPTH (ft): **16**
STATIC DTW (ft): **7.5** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SP-SC	**GRAVELLY SAND WITH CLAY** ; SP-SC; 10YR 3/3 dark brown; medium dense; dry; subangular; fine to coarse-grained sand and gravel; (35,45,0,20)		1100 SB-13@2.5			0	
5			No Recovery						5
		GW	**SANDY GRAVEL** ; GW; 10YR 3/3 dark brown; loose; saturated; coarse-grained sand; fine to coarse-grained gravel; (70,30,0,0)						
10			No Recovery						10
		CH	**CLAY LITTLE SAND** ; CH; 10YR 3/4 dark yellowish brown; medium plasticity; soft; saturated; fine to coarse-grained sand; (0,10,0,90)		900 SB-13@14 915 SB-13@14.5			-- --	
15			No Recovery						15

Borehole terminated at 16 feet.

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-14**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/26/15** COMPLETED: **2/26/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **7.5** BOREHOLE DEPTH (ft): **10**
STATIC DTW (ft): **6.2** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		GW	**WELL-GRADED SAND AND GRAVEL** ; GW; 10YR 3/3 dark brown; loose; dry; subangular; fine to coarse-grained gravel; (50,50,0,0)						
		CH	**FAT CLAY TRACE COARSE SAND** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0,5,0,95)		1610 SB-14@2.5			0	
			2.5Y 4/1 dark gray; mottled; Same As Above						
5			Iron oxide staining; Same As Above		1620 SB-14@5			0	5
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; hard; dry; iron oxide staining; (0,0,40,60)						
		CL	**SANDY CLAY TRACE GRAVEL** ; CL; 2.5Y 4/2 dark grayish brown; low plasticity; soft; dry; iron oxide staining; fine to coarse-grained sand and gravel; (5,40,0,55)		1630 SB-14@7.5			--	
			Saturated; Same As Above						
			2.5Y 4/1 dark gray; Same As Above						
10			Borehole terminated at 10 feet.		1645 SB-14@10			--	10

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-15**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/27/15** COMPLETED: **2/27/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **7** BOREHOLE DEPTH (ft): **10**
STATIC DTW (ft): **6.5** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		GW	**WELL-GRADED SAND AND GRAVEL** ; GW; 10YR 3/3 dark brown; loose; dry; subangular; fine to coarse-grained gravel; (50,50,0,0)						
		CH	**FAT CLAY TRACE COARSE SAND** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0,5,0,95)		0735 SB-15@2.5			0	
5			2.5Y 4/1 dark gray; iron oxide staining; mottled; Same As Above		0745 SB-15@5			0	5
		CL	**SILTY CLAY TRACE SAND AND GRAVEL** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; hard; dry; iron oxide staining; fine to coarse-grained sand and gravel; (5,5,30,60)						
		CL	**SANDY CLAY TRACE GRAVEL** ; CL; fine to coarse-grained sand and gravel; (5,40,0,55) Saturated		0800 SB-15@7.5			--	
		CL	**CLAY SOME SAND TRACE GRAVEL** ; CL; GLEY 1 5G 3/1 very dark greenish gray; medium plasticity; firm; saturated; (5,15,0,80)						
		CL	**SILTY CLAY** ; CL; soft; Same As Above; (0,0,40,60)		0825 SB-15@10			--	
10			Borehole terminated at 10 feet.						10

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-17**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/27/15** COMPLETED: **2/27/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **7** BOREHOLE DEPTH (ft): **10**
STATIC DTW (ft): **5.70** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			CONCRETE						
		CH	**FAT CLAY** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0, 0, 0, 100)		1300 SB-17@2.5			0	
			FAT CLAY TRACE COARSE SAND ; 2.5Y 4/1 dark gray; iron oxide staining; mottled; Same As Above; (0, 5, 0, 95)						
5					1320 SB-17@5			0	5
		CL	**SANDY CLAY TRACE GRAVEL** ; CL; 2.5Y 4/2 dark grayish brown; low plasticity; hard; dry; fine to coarse-grained sand and gravel; (5,30,0,65)						
			Saturated		1345 SB-17@7.5			--	
		CH	**CLAY TRACE SAND AND GRAVEL** ; CH; 2.5Y 4/1 dark gray; high plasticity; soft; saturated; fine to coarse-grained sand and gravel; (5,5,0,90)						
10					1350 SB-17@10			--	10
			Borehole terminated at 10 feet.						

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-18**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/27/15** COMPLETED: **2/27/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **9** BOREHOLE DEPTH (ft): **11**
STATIC DTW (ft): **8.90** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			CONCRETE						
		CH	**FAT CLAY** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous; (0, 0, 0, 100)		1415 SB-18@2.5			0	
			2.5Y 4/1 dark gray; iron oxide staining; mottled; Same As Above						
5		CL	**SILTY CLAY TRACE SAND AND GRAVEL** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; hard; dry; iron oxide staining; fine to coarse-grained sand and gravel; (5,5,30,60)		1430 SB-18@5			10.2	5
			2.5Y 4/1 dark gray; Same As Above						
		CL	**SILTY CLAY** ; CL; GLEY 1 5G 3/1 very dark greenish gray; low plasticity; firm; dry; (0,0,40,60)		1500 SB-18@7.5			145	
			Wet; Same As Above						
10		CL	**CLAY WITH SAND TRACE GRAVEL** ; CL; GLEY 1 5G 3/1 very dark greenish gray; low plasticity; firm; saturated; fine to coarse-grained sand and gravel; (5,25,0,70)		1510 SB-18@10			--	10
			Borehole terminated at 11 feet.						

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-19**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/26/15** COMPLETED: **2/26/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **10.5** BOREHOLE DEPTH (ft): **11.5**
STATIC DTW (ft): **9.83** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			ASPHALT						
			CONCRETE						
		SC	**CLAYEY SAND** ; SC; 10YR 3/3 dark brown; low plasticity; firm; dry; fine to coarse-grained sand; (0,60,0,40)						
		CH	**FAT CLAY** ; CH; 10 YR 2/1 black; high plasticity; hard; dry; homogeneous		1050 SB-19@2.5			0.9	
			2.5Y 4/1 dark gray; iron oxide staining; mottled; trace coarse-grained sand; Same As Above; (0, 5, 0, 95)						
5					1105 SB-19@5			0.8	5
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; hard; dry; iron oxide staining; (0,0,30,70)		1120 SB-19@7.5			0	
		CL	**CLAY WITH SAND AND GRAVEL** ; CL; 2.5Y 4/1 dark gray; low plasticity; soft; moist; iron oxide staining; fine to coarse-grained sand and gravel; (20,30,0,50)						
10					1130 SB-19@10			0	10
			Saturated						
			Borehole terminated at 11.5 feet.						

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-20**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/26/15** COMPLETED: **2/26/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8** BOREHOLE DEPTH (ft): **9.4**
STATIC DTW (ft): **6.3** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			ASPHALT						
			CONCRETE						
		SC	**CLAYEY SAND** ; SC; 10YR 3/3 dark brown; low plasticity; firm; dry; fine to coarse-grained sand; (0,60,0,40)						
		CH	**FAT CLAY** ; CH; 10 YR 4/2 dark grayish brown; high plasticity; hard; dry; mottled; (0, 0, 0, 100)		1400 SB-20@2.5			0	
5		CL	**SILTY CLAY TRACE SAND** ; CL; 2.5Y 4/4 olive brown; medium plasticity; hard; dry; iron oxide staining; coarse-grained sand; (0,5,25,70)		1410 SB-20@5			0	5
		SC	**CLAYEY SAND** ; SC; 10 YR 3/6 dark yellowish brown; low plasticity; soft; dry; (0,55,0,45)						
					1420 SB-20@7.5			0	
			Same As Above; fine to coarse-grained gravel; (5,55,0,40)						
			Saturated						
10			Refusal at 9.4 feet. Borehole terminated at 9.4 feet.						10

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

PROJECT: **Chevron 92029**
LOCATION: **890 West MacArthur Blvd Oakland,CA**
PROJECT NUMBER: **211602398**

WELL / PROBEHOLE / BOREHOLE NO: **SB-21**
PAGE 1 OF 1

Stantec

DRILLING: STARTED **2/27/15** COMPLETED: **2/27/15**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **National EWP**
DRILLING EQUIPMENT: **HandAuger**
DRILLING METHOD: **HandAuger**
SAMPLING EQUIPMENT: **6" Sleeve**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8.5** BOREHOLE DEPTH (ft): **12.5**
STATIC DTW (ft): **10.65** WELL DEPTH (ft):
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **3.25**
LOGGED BY: **D.Owens** CHECKED BY: **GPM**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			CONCRETE						
		CH	**CLAY TRACE SAND** ; CH; 2.5 Y 4/2 dark grayish brown; high plasticity; hard; dry; iron oxide staining; mottled; coarse-grained sand; (0,5,0,95)		0945 SB-21@2.5			0	
		CL	**SILTY CLAY TRACE SAND** ; CL; 10YR 3/4 dark yellowish brown; medium plasticity; hard; dry; iron oxide staining; mottled; coarse-grained sand; (0,5,30,65)						
5		CH	**FAT CLAY** ; CH; 10YR 3/4 dark yellowish brown; high plasticity; hard; dry; iron oxide staining; mottled; (0, 0, 0, 100)		0950 SB-21@5			0	5
					1010 SB-21@7.5			0	
		CL	**CLAY WITH SAND AND GRAVEL** ; CL; 10YR 2/2 very dark brown; low plasticity; firm; moist; fine to coarse-grained sand and gravel; (20,30,0,50)						
		SP	**POORLY GRADED SAND TRACE GRAVEL** ; SP; 10YR 3/3 dark brown; soft; wet; fine-grained gravel; (5,95,0,0)						
10		CL	**CLAY WITH SAND AND GRAVEL** ; CL; 2.5Y 4/1 dark gray; low plasticity; soft; saturated; fine to coarse-grained sand and gravel; (20,30,0,50)		1030 SB-21@10			--	10
		CL	**SILTY CLAY** ; CL; 10YR 3/3 dark brown; medium plasticity; hard; moist; (0,0,30,70)						
			Borehole terminated at 12.5 feet.						

GEO FORM 304 CHEVRON 92029 GINT.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 3/24/15

APPENDIX C
CERTIFIED LABORATORY ANALYSIS REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

March 12, 2015

Project: 92029

Submittal Date: 03/03/2015
Group Number: 1542345
PO Number: 0015150110
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
SB-11-S-2.5-150225 NA Soil	7790304
SB-11-S-5-150225 NA Soil	7790305
SB-11-S-7.5-150225 NA Soil	7790306
SB-11-S-10-150225 NA Soil	7790307
SB-12-S-2.5-150226 NA Soil	7790308
SB-12-S-5-150226 NA Soil	7790309
SB-12-S-7.5-150226 NA Soil	7790310
SB-12-S-10-150226 NA Soil	7790311
SB-13-S-2.5-150225 NA Soil	7790312
SB-14-S-2.5-150226 NA Soil	7790313
SB-14-S-5-150226 NA Soil	7790314
SB-14-S-7.5-150226 NA Soil	7790315
SB-14-S-10-150226 NA Soil	7790316
SB-15-S-2.5-150227 NA Soil	7790317
SB-15-S-5-150227 NA Soil	7790318
SB-15-S-7.5-150227 NA Soil	7790319
SB-15-S-10-150227 NA Soil	7790320
SB-19-S-2.5-150226 NA Soil	7790321
SB-19-S-5-150226 NA Soil	7790322
SB-19-S-7.5-150226 NA Soil	7790323
SB-19-S-10-150226 NA Soil	7790324
SB-20-S-2.5-150226 NA Soil	7790325
SB-20-S-5-150226 NA Soil	7790326
SB-20-S-7.5-150226 NA Soil	7790327
SB-21-S-2.5-150227 NA Soil	7790328
SB-21-S-5-150227 NA Soil	7790329
SB-21-S-7.5-150227 NA Soil	7790330
SB-21-S-10-150227 NA Soil	7790331
SB-17-S-2.5-150227 NA Soil	7790332
SB-17-S-5-150227 NA Soil	7790333
SB-17-S-7.5-150227 NA Soil	7790334

SB-17-S-10-150227 NA Soil	7790335
SB-18-S-2.5-150227 NA Soil	7790336
SB-18-S-5-150227 NA Soil	7790337
SB-18-S-7.5-150227 NA Soil	7790338
SB-18-S-10-150227 NA Soil	7790339

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec	Attn: Marisa Kaffenberger
ELECTRONIC COPY TO	Stantec	Attn: Travis Flora

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SB-11-S-2.5-150225 NA Soil
Facility# 92029 STALGCA
SB-11 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790304
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 13:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO112

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.03
10237	Benzene	71-43-2	N.D.	0.0005	1.03
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.03
10237	Ethanol	64-17-5	N.D.	0.10	1.03
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.03
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.03
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.35

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 11:30	Sarah A Guill	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:16	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 14:58	Jeremy C Giffin	25.35
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:17	Mitchell R Washel	n.a.

Sample Description: SB-11-S-5-150225 NA Soil
Facility# 92029 STALGCA
SB-11 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790305
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 13:40 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.43

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 11:52	Sarah A Guill	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:00	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 15:34	Jeremy C Giffin	25.43
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:01	Mitchell R Washel	n.a.

Sample Description: SB-11-S-7.5-150225 NA Soil
Facility# 92029 STALGCA
SB-11 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790306
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 14:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO117

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.03
10237	Benzene	71-43-2	N.D.	0.0005	1.03
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.03
10237	Ethanol	64-17-5	N.D.	0.10	1.03
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.03
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.03
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.7	0.5	24.65

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 12:14	Sarah A Guill	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:52	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 16:10	Jeremy C Giffin	24.65
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:53	Mitchell R Washel	n.a.

Sample Description: SB-11-S-10-150225 NA Soil
Facility# 92029 STALGCA
SB-11 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790307
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 14:15 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.047	46.9
10237	Benzene	71-43-2	N.D.	0.023	46.9
10237	t-Butyl alcohol	75-65-0	N.D.	0.94	46.9
10237	Ethanol	64-17-5	N.D.	4.7	46.9
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.047	46.9
10237	Ethylbenzene	100-41-4	N.D.	0.047	46.9
10237	di-Isopropyl ether	108-20-3	N.D.	0.047	46.9
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	46.9
10237	Naphthalene	91-20-3	0.46	0.047	46.9
10237	Toluene	108-88-3	N.D.	0.047	46.9
10237	Xylene (Total)	1330-20-7	N.D.	0.047	46.9
	Reporting limits were raised due to interference from the sample matrix.				
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	65	2.0	98.33

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q150632AA	03/04/2015 13:09	Anita M Dale	46.9
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:49	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 23:21	Jeremy C Giffin	98.33
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:50	Mitchell R Washel	n.a.

Sample Description: SB-12-S-2.5-150226 NA Soil
Facility# 92029 STALGCA
SB-12 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790308
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 07:45 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO122

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 14:44	Sarah A Guill	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:46	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 16:46	Jeremy C Giffin	25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:47	Mitchell R Washel	n.a.

Sample Description: SB-12-S-5-150226 NA Soil
Facility# 92029 STALGCA
SB-12 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790309
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 07:55 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.04
10237	Benzene	71-43-2	N.D.	0.0005	1.04
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.04
10237	Ethanol	64-17-5	N.D.	0.10	1.04
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.04
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	1.04
10237	Toluene	108-88-3	N.D.	0.001	1.04
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.04
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.44

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 15:06	Sarah A Guill	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:43	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 17:22	Jeremy C Giffin	24.44
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:43	Mitchell R Washel	n.a.

Sample Description: SB-12-S-7.5-150226 NA Soil
Facility# 92029 STALGCA
SB-12 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790310
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 08:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO127

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.25

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 15:28	Sarah A Guill	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:54	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:55	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:40	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 17:58	Jeremy C Giffin	24.25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:41	Mitchell R Washel	n.a.

Sample Description: SB-12-S-10-150226 NA Soil
Facility# 92029 STALGCA
SB-12 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790311
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 08:30 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	26	2.0	99.01

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 18:11	Sarah A Guill	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:54	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 23:58	Jeremy C Giffin	99.01
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:55	Mitchell R Washel	n.a.

Sample Description: SB-13-S-2.5-150225 NA Soil
Facility# 92029 STALGCA
SB-13 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790312
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 11:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO132

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.63

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 15:51	Sarah A Guill	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:48	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 17:47	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201506236915	03/03/2015 17:48	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 12:33	Jeremy C Giffin	23.63
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:49	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 17:51	Mitchell R Washel	n.a.

Sample Description: SB-13-S-2.5-150225 NA Soil
Facility# 92029 STALGCA
SB-13 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790312
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/25/2015 11:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO132

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	3	201506236915	03/03/2015 17:49	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	4	201506236915	03/03/2015 17:50	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	5	201506236915	03/03/2015 17:50	Mitchell R Washel	n.a.

Sample Description: SB-14-S-2.5-150226 NA Soil
Facility# 92029 STALGCA
SB-14 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790313
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 16:10 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO142

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	26.23

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 16:58	Sarah A Guill	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:39	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 19:10	Jeremy C Giffin	26.23
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:39	Mitchell R Washel	n.a.

Sample Description: SB-14-S-5-150226 NA Soil
Facility# 92029 STALGCA
SB-14 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790314
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 16:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO145

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.94
10237	Benzene	71-43-2	N.D.	0.0005	0.94
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.94
10237	Ethanol	64-17-5	N.D.	0.094	0.94
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.94
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.94
10237	Naphthalene	91-20-3	N.D.	0.0009	0.94
10237	Toluene	108-88-3	N.D.	0.0009	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.0009	0.94
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.34

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 17:20	Sarah A Guill	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:36	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 19:46	Jeremy C Giffin	23.34
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:37	Mitchell R Washel	n.a.

Sample Description: SB-14-S-7.5-150226 NA Soil
Facility# 92029 STALGCA
SB-14 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790315
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 16:30 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO147

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.4	0.5	25.99

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 17:43	Sarah A Guill	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:33	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 20:22	Jeremy C Giffin	25.99
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:34	Mitchell R Washel	n.a.

Sample Description: SB-14-S-10-150226 NA Soil
Facility# 92029 STALGCA
SB-14 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790316
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 16:45 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.07
10237	Benzene	71-43-2	0.004	0.0005	1.07
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.07
10237	Ethanol	64-17-5	N.D.	0.11	1.07
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.07
10237	Ethylbenzene	100-41-4	0.005	0.001	1.07
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.07
10237	Methyl Tertiary Butyl Ether	1634-04-4	0.0006	0.0005	1.07
10237	Naphthalene	91-20-3	0.002	0.001	1.07
10237	Toluene	108-88-3	N.D.	0.001	1.07
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.07
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	39	2.0	99.01

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 19:57	Sarah A Guill	1.07
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 18:00	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:30	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/05/2015 00:34	Jeremy C Giffin	99.01
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 17:31	Mitchell R Washel	n.a.

Sample Description: SB-15-S-2.5-150227 NA Soil
Facility# 92029 STALGCA
SB-15 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790317
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 07:35 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO152

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.98

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 18:06	Sarah A Guill	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:42	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:39	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 10:55	Marie D Beamenderfer	24.98
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:40	Mitchell R Washel	n.a.

Sample Description: SB-15-S-5-150227 NA Soil
Facility# 92029 STALGCA
SB-15 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790318
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 07:45 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO155

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.48

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 18:28	Sarah A Guill	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:36	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 11:31	Marie D Beamenderfer	25.48
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:36	Mitchell R Washel	n.a.

Sample Description: SB-15-S-7.5-150227 NA Soil
Facility# 92029 STALGCA
SB-15 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790319
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 08:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO157

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.09
10237	Benzene	71-43-2	N.D.	0.0005	1.09
10237	t-Butyl alcohol	75-65-0	N.D.	0.022	1.09
10237	Ethanol	64-17-5	N.D.	0.11	1.09
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.09
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.09
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.09
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.09
10237	Naphthalene	91-20-3	N.D.	0.001	1.09
10237	Toluene	108-88-3	N.D.	0.001	1.09
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.09
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.9	0.5	24.73

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 18:51	Sarah A Guill	1.09
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:32	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 12:07	Marie D Beamenderfer	24.73
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:33	Mitchell R Washel	n.a.

Sample Description: SB-15-S-10-150227 NA Soil
Facility# 92029 STALGCA
SB-15 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790320
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 08:25 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO150

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.053	53.42
10237	Benzene	71-43-2	0.40	0.027	53.42
10237	t-Butyl alcohol	75-65-0	N.D.	1.1	53.42
10237	Ethanol	64-17-5	N.D.	5.3	53.42
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.053	53.42
10237	Ethylbenzene	100-41-4	8.3	0.053	53.42
10237	di-Isopropyl ether	108-20-3	N.D.	0.053	53.42
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	53.42
10237	Naphthalene	91-20-3	2.5	0.053	53.42
10237	Toluene	108-88-3	N.D.	0.053	53.42
10237	Xylene (Total)	1330-20-7	14	0.053	53.42
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	480	100	5086.47

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q150632AA	03/04/2015 12:24	Anita M Dale	53.42
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:24	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 21:40	Marie D Beamenderfer	5086.47
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:25	Mitchell R Washel	n.a.

Sample Description: SB-19-S-2.5-150226 NA Soil
Facility# 92029 STALGCA
SB-19 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790321
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 10:50 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO192

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.67

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 19:13	Sarah A Guill	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:22	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 20:58	Jeremy C Giffin	25.67
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:22	Mitchell R Washel	n.a.

Sample Description: SB-19-S-5-150226 NA Soil
Facility# 92029 STALGCA
SB-19 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790322
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 11:05 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO195

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.94
10237	Benzene	71-43-2	N.D.	0.0005	0.94
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.94
10237	Ethanol	64-17-5	N.D.	0.094	0.94
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.94
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	0.0005	0.0005	0.94
10237	Naphthalene	91-20-3	N.D.	0.0009	0.94
10237	Toluene	108-88-3	N.D.	0.0009	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.0009	0.94
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.37

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150631AA	03/04/2015 19:35	Sarah A Guill	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:19	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 21:33	Jeremy C Giffin	24.37
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:20	Mitchell R Washel	n.a.

Sample Description: SB-19-S-7.5-150226 NA Soil
Facility# 92029 STALGCA
SB-19 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790323
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 11:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO197

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.51

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 12:36	Sarah A Guill	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:16	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 22:09	Jeremy C Giffin	25.51
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:17	Mitchell R Washel	n.a.

Sample Description: SB-19-S-10-150226 NA Soil
Facility# 92029 STALGCA
SB-19 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790324
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 11:30 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO190

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	5.7	0.5	25.93

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 17:26	Sarah A Guill	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:01	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 22:45	Jeremy C Giffin	25.93
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:01	Mitchell R Washel	n.a.

Sample Description: SB-20-S-2.5-150226 NA Soil
Facility# 92029 STALGCA
SB-20 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790325
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 14:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO202

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.32

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 12:58	Sarah A Guill	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:57	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15063A34A	03/04/2015 13:09	Jeremy C Giffin	24.32
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:58	Mitchell R Washel	n.a.

Sample Description: SB-20-S-5-150226 NA Soil
Facility# 92029 STALGCA
SB-20 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790326
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 14:10 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.99

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 13:21	Sarah A Guill	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:54	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 12:42	Marie D Beamenderfer	25.99
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:55	Mitchell R Washel	n.a.

Sample Description: SB-20-S-7.5-150226 NA Soil
Facility# 92029 STALGCA
SB-20 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790327
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/26/2015 14:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO207

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.09
10237	Benzene	71-43-2	N.D.	0.0005	1.09
10237	t-Butyl alcohol	75-65-0	N.D.	0.022	1.09
10237	Ethanol	64-17-5	N.D.	0.11	1.09
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.09
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.09
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.09
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.09
10237	Naphthalene	91-20-3	N.D.	0.001	1.09
10237	Toluene	108-88-3	N.D.	0.001	1.09
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.09
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.41

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 13:43	Sarah A Guill	1.09
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:52	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 13:18	Marie D Beamenderfer	23.41
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:52	Mitchell R Washel	n.a.

Sample Description: SB-21-S-2.5-150227 NA Soil
Facility# 92029 STALGCA
SB-21 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790328
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 09:45 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO212

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.56

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 14:05	Sarah A Guill	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 16:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:49	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 13:54	Marie D Beamenderfer	24.56
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 15:49	Mitchell R Washel	n.a.

Sample Description: SB-21-S-5-150227 NA Soil
Facility# 92029 STALGCA
SB-21 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790329
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 09:50 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.85

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 14:27	Sarah A Guill	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:13	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 14:29	Marie D Beamenderfer	25.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:13	Mitchell R Washel	n.a.

Sample Description: SB-21-S-7.5-150227 NA Soil
Facility# 92029 STALGCA
SB-21 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790330
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 10:10 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO217

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.78

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 14:49	Sarah A Guill	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:09	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 15:05	Marie D Beamenderfer	24.78
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:10	Mitchell R Washel	n.a.

Sample Description: SB-21-S-10-150227 NA Soil
Facility# 92029 STALGCA
SB-21 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790331
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 10:30 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.56

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150681AA	03/09/2015 12:26	Sarah A Guill	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:06	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 15:41	Marie D Beamenderfer	25.56
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:07	Mitchell R Washel	n.a.

Sample Description: SB-17-S-2.5-150227 NA Soil
Facility# 92029 STALGCA
SB-17 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790332
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 13:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO172

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.33

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 15:34	Sarah A Guill	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:03	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 16:17	Marie D Beamenderfer	25.33
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:04	Mitchell R Washel	n.a.

Sample Description: SB-17-S-5-150227 NA Soil
Facility# 92029 STALGCA
SB-17 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790333
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 13:20 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO175

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	Naphthalene	91-20-3	0.001	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.5

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 15:56	Sarah A Guill	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:52	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:52	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:48	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 17:28	Marie D Beamenderfer	23.5
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:49	Mitchell R Washel	n.a.

Sample Description: SB-17-S-7.5-150227 NA Soil
Facility# 92029 STALGCA
SB-17 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790334
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 13:45 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO177

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.93
10237	Benzene	71-43-2	N.D.	0.0005	0.93
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.93
10237	Ethanol	64-17-5	N.D.	0.093	0.93
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.93
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.93
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.93
10237	Naphthalene	91-20-3	N.D.	0.0009	0.93
10237	Toluene	108-88-3	N.D.	0.0009	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.0009	0.93
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.6	0.5	23.47

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 16:19	Sarah A Guill	0.93
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:51	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:51	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:44	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 18:02	Marie D Beamenderfer	23.47
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:46	Mitchell R Washel	n.a.

Sample Description: SB-17-S-10-150227 NA Soil
Facility# 92029 STALGCA
SB-17 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790335
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 13:50 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO170

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	0.0008	0.0005	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	25	1.9	94.52

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 17:49	Sarah A Guill	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:51	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:40	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 20:29	Marie D Beamenderfer	94.52
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:41	Mitchell R Washel	n.a.

Sample Description: SB-18-S-2.5-150227 NA Soil
Facility# 92029 STALGCA
SB-18 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790336
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 14:15 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO182

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.04
10237	Benzene	71-43-2	N.D.	0.0005	1.04
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.04
10237	Ethanol	64-17-5	N.D.	0.10	1.04
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.04
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	1.04
10237	Toluene	108-88-3	N.D.	0.001	1.04
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.04
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.91

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 16:41	Sarah A Guill	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:37	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 18:41	Marie D Beamenderfer	25.91
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:38	Mitchell R Washel	n.a.

Sample Description: SB-18-S-5-150227 NA Soil
Facility# 92029 STALGCA
SB-18 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790337
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 14:30 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO185

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.85

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150641AA	03/05/2015 17:04	Sarah A Guill	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:35	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 19:17	Marie D Beamenderfer	23.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:35	Mitchell R Washel	n.a.

Sample Description: SB-18-S-7.5-150227 NA Soil
Facility# 92029 STALGCA
SB-18 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790338
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 15:00 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO187

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.047	46.82
10237	Benzene	71-43-2	0.064	0.023	46.82
10237	t-Butyl alcohol	75-65-0	N.D.	0.94	46.82
10237	Ethanol	64-17-5	N.D.	4.7	46.82
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.047	46.82
10237	Ethylbenzene	100-41-4	0.24	0.047	46.82
10237	di-Isopropyl ether	108-20-3	N.D.	0.047	46.82
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	46.82
10237	Naphthalene	91-20-3	0.11	0.047	46.82
10237	Toluene	108-88-3	N.D.	0.047	46.82
10237	Xylene (Total)	1330-20-7	N.D.	0.047	46.82
	Reporting limits were raised due to interference from the sample matrix.				
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	470	100	5154.64

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q150632AA	03/04/2015 13:32	Anita M Dale	46.82
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:30	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 22:16	Marie D Beamenderfer	5154.64
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:31	Mitchell R Washel	n.a.

Sample Description: SB-18-S-10-150227 NA Soil
Facility# 92029 STALGCA
SB-18 890 W Macarthur-Oakland T0600173887

LL Sample # SW 7790339
LL Group # 1542345
Account # 10869

Project Name: 92029

Collected: 02/27/2015 15:10 by DO

Submitted: 03/03/2015 10:00
Reported: 03/12/2015 10:44

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO180

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.048	47.8
10237	Benzene	71-43-2	0.17	0.024	47.8
10237	t-Butyl alcohol	75-65-0	N.D.	0.96	47.8
10237	Ethanol	64-17-5	N.D.	4.8	47.8
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.048	47.8
10237	Ethylbenzene	100-41-4	3.8	0.048	47.8
10237	di-Isopropyl ether	108-20-3	N.D.	0.048	47.8
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	47.8
10237	Naphthalene	91-20-3	1.2	0.048	47.8
10237	Toluene	108-88-3	N.D.	0.048	47.8
10237	Xylene (Total)	1330-20-7	N.D.	0.048	47.8
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	410	20	999

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q150632AA	03/04/2015 13:55	Anita M Dale	47.8
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506236915	03/03/2015 19:50	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:27	Mitchell R Washel	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15065A34A	03/06/2015 21:05	Marie D Beamenderfer	999
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506236915	03/03/2015 19:28	Mitchell R Washel	n.a.

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1542345
Reported: 03/12/2015 10:44

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B150631AA	Sample number(s): 7790308-7790310,7790312-7790319,7790321-7790322							
t-Amyl methyl ether	N.D.	0.001	mg/kg	87	91	70-120	4	30
Benzene	N.D.	0.0005	mg/kg	86	91	80-120	5	30
t-Butyl alcohol	N.D.	0.020	mg/kg	98	93	76-120	5	30
Ethanol	N.D.	0.10	mg/kg	77	81	45-160	5	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	85	91	69-120	7	30
Ethylbenzene	N.D.	0.001	mg/kg	83	88	80-120	6	30
di-Isopropyl ether	N.D.	0.001	mg/kg	87	91	71-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	94	97	72-120	3	30
Naphthalene	N.D.	0.001	mg/kg	90	93	64-120	3	30
Toluene	N.D.	0.001	mg/kg	85	89	80-120	5	30
Xylene (Total)	N.D.	0.001	mg/kg	83	88	80-120	5	30
Batch number: B150641AA	Sample number(s): 7790304-7790306,7790311,7790323-7790330,7790332-7790337							
t-Amyl methyl ether	N.D.	0.001	mg/kg	90	85	70-120	6	30
Benzene	N.D.	0.0005	mg/kg	88	83	80-120	6	30
t-Butyl alcohol	N.D.	0.020	mg/kg	95	89	76-120	6	30
Ethanol	N.D.	0.10	mg/kg	81	74	45-160	9	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	89	83	69-120	7	30
Ethylbenzene	N.D.	0.001	mg/kg	87	83	80-120	4	30
di-Isopropyl ether	N.D.	0.001	mg/kg	90	85	71-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	97	91	72-120	6	30
Naphthalene	N.D.	0.001	mg/kg	95	90	64-120	6	30
Toluene	N.D.	0.001	mg/kg	89	84	80-120	5	30
Xylene (Total)	N.D.	0.001	mg/kg	87	83	80-120	5	30
Batch number: B150681AA	Sample number(s): 7790331							
t-Amyl methyl ether	N.D.	0.001	mg/kg	91	87	70-120	5	30
Benzene	N.D.	0.0005	mg/kg	91	89	80-120	3	30
t-Butyl alcohol	N.D.	0.020	mg/kg	97	96	76-120	0	30
Ethanol	N.D.	0.10	mg/kg	82	85	45-160	3	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	92	87	69-120	5	30
Ethylbenzene	N.D.	0.001	mg/kg	89	85	80-120	4	30
di-Isopropyl ether	N.D.	0.001	mg/kg	92	89	71-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	100	93	72-120	8	30
Naphthalene	N.D.	0.001	mg/kg	101	93	64-120	9	30
Toluene	N.D.	0.001	mg/kg	91	88	80-120	4	30
Xylene (Total)	N.D.	0.001	mg/kg	90	86	80-120	4	30
Batch number: Q150632AA	Sample number(s): 7790307,7790320,7790338-7790339							
t-Amyl methyl ether	N.D.	0.050	mg/kg	88	85	70-120	3	30
Benzene	N.D.	0.025	mg/kg	92	89	80-120	3	30
t-Butyl alcohol	N.D.	1.0	mg/kg	90	89	76-120	1	30
Ethanol	N.D.	5.0	mg/kg	97	99	45-160	2	30

*- 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: ChevronTexaco Group Number: 1542345
Reported: 03/12/2015 10:44

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethyl t-butyl ether	N.D.	0.050	mg/kg	91	87	69-120	5	30
Ethylbenzene	N.D.	0.050	mg/kg	89	87	80-120	3	30
di-Isopropyl ether	N.D.	0.050	mg/kg	91	88	71-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	89	86	72-120	4	30
Naphthalene	N.D.	0.050	mg/kg	75	68	64-120	9	30
Toluene	N.D.	0.050	mg/kg	89	86	80-120	3	30
Xylene (Total)	N.D.	0.050	mg/kg	89	87	80-120	3	30
Batch number: 15063A34A	Sample number(s): 7790304-7790316,7790321-7790325							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	102	103	73-120	1	30
Batch number: 15065A34A	Sample number(s): 7790317-7790320,7790326-7790339							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	89	93	73-120	4	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B150631AA	Sample number(s): 7790308-7790310,7790312-7790319,7790321-7790322 UNSPK: 7790312								
t-Amyl methyl ether	88	90	50-132	13	30				
Benzene	92	97	55-143	16	30				
t-Butyl alcohol	89	97	47-153	21	30				
Ethanol	80	94	35-189	26	30				
Ethyl t-butyl ether	88	92	58-124	16	30				
Ethylbenzene	77	85	44-141	20	30				
di-Isopropyl ether	92	94	59-133	13	30				
Methyl Tertiary Butyl Ether	96	97	55-129	12	30				
Naphthalene	71	75	10-138	16	30				
Toluene	86	92	50-146	18	30				
Xylene (Total)	76	84	44-136	21	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B150631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7790308	108	104	96	94
7790309	106	100	97	92
7790310	108	105	95	95
7790312	107	102	97	95
7790313	104	100	98	90
7790314	109	107	95	96
7790315	107	102	96	94
7790316	104	98	103	117

*- 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: ChevronTexaco Group Number: 1542345
Reported: 03/12/2015 10:44

Surrogate Quality Control

7790317	108	100	97	92
7790318	107	98	96	92
7790319	108	100	96	95
7790321	109	104	96	94
7790322	110	106	94	94
Blank	108	107	95	96
LCS	104	99	99	103
LCSD	103	102	100	102
MS	105	100	99	103
MSD	104	96	100	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: B150641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7790304	102	99	100	92
7790305	104	101	98	91
7790306	105	98	97	91
7790311	100	98	99	108
7790323	105	99	98	92
7790324	108	101	98	92
7790325	109	106	97	95
7790326	108	105	95	94
7790327	108	100	96	94
7790328	109	108	96	95
7790329	109	104	95	93
7790330	110	109	96	94
7790332	113	104	99	88
7790333	109	103	97	93
7790334	109	101	95	92
7790335	101	96	116	111
7790336	108	102	97	92
7790337	109	103	96	92
Blank	106	103	98	95
LCS	103	103	101	102
LCSD	102	104	100	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: B150681AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7790331	104	103	98	93
Blank	106	110	97	94
LCS	106	100	101	102
LCSD	103	104	101	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: Q150632AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7790307	72	70	72	72
7790320	82	79	83	81
7790338	80	72	84	81
7790339	77	75	76	75
Blank	95	95	95	91
LCS	90	84	88	84

*- 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: ChevronTexaco Group Number: 1542345
Reported: 03/12/2015 10:44

Surrogate Quality Control

LCSD	89	86	87	83
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 15063A34A

	Trifluorotoluene-F
7790304	79
7790305	78
7790306	80
7790307	86
7790308	81
7790309	82
7790310	79
7790311	85
7790312	84
7790313	76
7790314	78
7790315	83
7790316	81
7790321	77
7790322	80
7790323	73
7790324	78
7790325	76
Blank	94
LCS	90
LCSD	90
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 15065A34A

	Trifluorotoluene-F
7790317	79
7790318	77
7790319	78
7790320	154*
7790326	73
7790327	78
7790328	75
7790329	75
7790330	80
7790331	75
7790332	77
7790333	77
7790334	76
7790335	82
7790336	78
7790337	77
7790338	134
7790339	154*
Blank	92
LCS	85
LCSD	89
Limits:	50-142

*- 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: ChevronTexaco Group Number: 1542345
Reported: 03/12/2015 10:44

*- 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.

10869 | 1542345 | 7790304-39

Stantec
Stantec Consulting Services Inc.
15575 Los Gatos Boulevard, Bldg C
Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2-27-15 Page: 1 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER (EUROFINS)
Lab Phone No.: Lab Fax No.:
Project Number: 21160398
Project Name: Chevron 92029
California EDF Report? ☑ Yes ☐ No
Global ID No:
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 890 W. MACARTHUR BLVD, OAKLAND CA.
Project Manager: TRAVIS FLORA

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	Container: SLEEVE	Container: POLY	Container: AMBER	Container: Jar	# of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: VAPOR	Analysis Request: TPH GRO (C6-C12)	Analysis Request: 8260B (SW-846) BTEX, MTBE, DIPE, ETBE	Analysis Request: TAME, TBA ETHANOL	Analysis Request: NAPTHALENE	Sample Remarks	For Lab Use Only
SB-11@2.5	SB-11	2/25/15	1320		X				1						X		X	X	X	X		
SB-11@5	SB-11		1340		X				1						X		X	X	X	X		
SB-11@7.5	SB-11		1400		X				1						X		X	X	X	X		
SB-11@10	SB-11		1415		X				1						X		X	X	X	X		
SB-12@2.5	SB-12	2/26/15	0745		X				1						X		X	X	X	X		
SB-12@5			0755		X				1						X		X	X	X	X		
SB-12@7.5			0820		X				1						X		X	X	X	X		
SB-12@10			0830		X				1						X		X	X	X	X		
SB-13@2.5	SB-13	2/25/15	1100		X				1						X		X	X	X	X		
SB-14@2.5	SB-14	2/26/15	1010		X				1						X		X	X	X	X		

Relinquished by: Date: 3/2/15 Time: 1500 Received by:
Relinquished by: Date: Time: Received by:
Relinquished by: Date: Time: Received by Laboratory: 3/3/15 1000

Remarks:

Relinquished By Commercial Carrier: FedEx ✓ UPS_____ Other_____

Temperature Upon Receipt 1.0 °C

Bill To: Stantec Los Gatos
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

10869 | 1542345 | 7790304-39

Stantec
Stantec Consulting Services Inc.
15575 Los Gatos Boulevard, Bldg C
Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2-27-15 Page: 2 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER LABORATORIES
Lab Phone No.: Lab Fax No.:
Project Number: 21160398
Project Name: CITGROUP 92029
Project Manager: TRAVIS FLORA

California EDF Report? ☑ Yes ☐ No
Global ID No:
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 540 W. MACARTHUR BLVD., OAKLAND CA.

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	Container: SLEEVE	Container: POLY	Container: AMBER	Container: Jar	# of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: VAPOR	Analysis Request: TPH-GRO (8015B)	Analysis Request: 8260B (SW-846) BTEX, MTBE, DIPE, ETBE	Analysis Request: 8260B (SW-846) TAME, TBA, ETHANOL	Analysis Request: 8260B (SW-846) NAPHTHALENE	Sample Remarks	For Lab Use Only
SB-14@5	SB-14	2/26/15	1620		X				1						X		X	X	X	X		
SB-14@7.5	↓	↓	1630		X				1						X		X	X	X	X		
SB-14@10	↓	↓	1645		X				1						X		X	X	X	X		
SB-15@2.5	SB-15	2/27/15	0735		X				1						X		X	X	X	X		
SB-15@5	↓	↓	0745		X				1						X		X	X	X	X		
SB-15@7.5	↓	↓	0800		X				1						X		X	X	X	X		
SB-15@10	↓	↓	0825		X				1						X		X	X	X	X		
SB-19@2.5	SB-19	2/26/15	1050		X				1						X		X	X	X	X		
SB-19@5	↓	↓	1105		X				1						X		X	X	X	X		
SB-19@7.5	↓	↓	1120		X				1						X		X	X	X	X		

Relinquished by:	Date: 3/2/15	Time: 1500	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory: 3/3/15 1000

Remarks:

Relinquished By Commercial Carrier: FedEx ✓ UPS_____ Other_____

Temperature Upon Receipt 1.0 °C

Bill To: Stantec Los Gatos
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Los Gatos, CA 95032

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Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2-27-15 Page: 3 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER ENVIRONS
Lab Phone No.: Lab Fax No.:
Project Number: 211602398
Project Name: CHEVRON 92029

California EDF Report? ☑ Yes ☐ No
Global ID No:
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 890 W. MACARTHUR BLVD. OAKLAND, CA.

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Project Manager: TRAVIS FLORA

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	Container: SLEEVE	Container: POLY	Container: AMBER	Container: Jar	# of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: VAPOR	Analysis Request: TPH-GRO (8015B)	Analysis Request: 8260B (SW-8467): BEN, MTBE, DIPE, ETBE	Analysis Request: 8260B (SW-8467): TAME, TBA, ETHANOL	Analysis Request: 8260B (SW-8467): NAPTHALENE	Analysis Request: 8260B (SW-8467)	Analysis Request	Analysis Request	Sample Remarks	For Lab Use Only
SB-19@10	SB-19	2/26/15	1130		X				1						X		X	X	X	X					
SB-20@2.5	SB-20	2/26/15	1400		X				1						X		X	X	X	X					
SB-20@5	↓	↓	1410		X				1						X		X	X	X	X					
SB-20@7.5	↓	↓	1420		X				1						X		X	X	X	X					
SB-21@2.5	SB-21	2/27/15	0945		X				1						X		X	X	X	X					
SB-21@5	↓	↓	0950		X				1						X		X	X	X	X					
SB-21@7.5	↓	↓	1010		X				1						X		X	X	X	X					
SB-21@10	↓	↓	1030		X				1						X		X	X	X	X					
SB-17@2.5	SB-17	2/27/15	1300		X				1						X		X	X	X	X					
SB-17@5	"	"	1320		X				1						X		X	X	X	X					

Relinquished by:	Date 3/2/15	Time 1500	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory: 3/3/15 1000

Remarks:

Relinquished By Commercial Carrier: FedEx ✓ UPS_____ Other_____

Temperature Upon Receipt 16 °C

Bill To: Stantec Los Gatos
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10869 | 1542345 | 7790304-39

Stantec

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Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2/27/15 Page: 4 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER LABORATORIES
Lab Phone No.: Lab Fax No.:
Project Number: 211602398
Project Name: CHEVRON 92029
Project Manager: TRAVIS FLORA
Sampler: DEVON OWENS

California EDF Report? ☑ Yes ☐ No
Global ID No: T
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 810 W. MACARTHUR BLVD. OAKLAND, CA.

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Analysis Request: 8260B (SW-846); TPH-GRO (8015B); BTEX, MTBE, DIPE, ETBE; TAME, TBA, ETHANOL; NAPHTHALENE

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	SLEEVE	POLY	AMBER	Jar	# of Containers	Preservative: HCl	HNO_3	ICE	NONE	Matrix: WATER	SOIL	VAPOR	Sample Remarks	For Lab Use Only
SB-17 @ 7.5	SB-17	2/27/15	1345		X				1						X			
SB-17 @ 10	SB-17		1350		X				1						X			
SB-18 @ 2.5	SB-18		1415		X				1						X			
SB-18 @ 5			1430		X				1						X			
SB-16 @ 7.5			1500		X				1						X			
SB-18 @ 10			1510		X				1						X			
SB-11-W	SB-11	2/25/15	1510	X					6	X				X				
SB-12-W	SB-12	2/26/15	0845	X					6	X				X				
SB-14-W	SB-14	2/26/15	1705	X					6	X				X				
SB-15-W	SB-15	2/27/15	0845	X					6	X				X				

	Date	Time	
Relinquished by:	3/2/15	1500	Received by:
Relinquished by:			Received by:
Relinquished by:			Received by Laboratory: 3/3/15 1000

Remarks:

Relinquished By Commercial Carrier: FedEx ✓ UPS ✓ Other

Temperature Upon Receipt 1.0 °C

Bill To: Stantec Los Gatos
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	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 per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

March 13, 2015

Project: 92029

Submittal Date: 03/06/2015
Group Number: 1543199
PO Number: 0015150110
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
SB-13-S-14-150305 NA Soil	7794015
SB-13-S-14.5-150305 NA Soil	7794016

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec	Attn: Marisa Kaffenberger
ELECTRONIC COPY TO	Stantec	Attn: Travis Flora

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SB-13-S-14-150305 NA Soil
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # SW 7794015
LL Group # 1543199
Account # 10869

Project Name: 92029

Collected: 03/05/2015 09:00 by DO

Submitted: 03/06/2015 10:20
Reported: 03/13/2015 16:39

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MO134

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.97
10237	Benzene	71-43-2	N.D.	0.0005	0.97
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.97
10237	Ethanol	64-17-5	N.D.	0.097	0.97
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.97
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.97
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.59

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150691AA	03/10/2015 22:04	Sarah A Guill	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:40	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506536930	03/06/2015 19:40	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:26	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15071A34A	03/12/2015 18:43	Jeremy C Giffin	25.59
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:30	Scott W Freisher	n.a.

Sample Description: SB-13-S-14.5-150305 NA Soil
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # SW 7794016
LL Group # 1543199
Account # 10869

Project Name: 92029

Collected: 03/05/2015 09:15 by DO

Submitted: 03/06/2015 10:20
Reported: 03/13/2015 16:39

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

O1345

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.07
10237	Benzene	71-43-2	N.D.	0.0005	1.07
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.07
10237	Ethanol	64-17-5	N.D.	0.11	1.07
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.07
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.07
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.07
10237	Methyl Tertiary Butyl Ether	1634-04-4	0.087	0.0005	1.07
10237	Naphthalene	91-20-3	N.D.	0.001	1.07
10237	Toluene	108-88-3	N.D.	0.001	1.07
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.07
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.33

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B150691AA	03/10/2015 22:27	Sarah A Guill	1.07
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:40	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201506536930	03/06/2015 19:40	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:24	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15071A34A	03/12/2015 19:19	Jeremy C Giffin	25.33
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201506536930	03/06/2015 19:25	Scott W Freisher	n.a.

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1543199
Reported: 03/13/2015 16:39

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B150691AA	Sample number(s): 7794015-7794016							
t-Amyl methyl ether	N.D.	0.001	mg/kg	89	88	70-120	1	30
Benzene	N.D.	0.0005	mg/kg	88	90	80-120	3	30
t-Butyl alcohol	N.D.	0.020	mg/kg	87	93	76-120	6	30
Ethanol	N.D.	0.10	mg/kg	75	89	45-160	17	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	88	87	69-120	1	30
Ethylbenzene	N.D.	0.001	mg/kg	84	87	80-120	3	30
di-Isopropyl ether	N.D.	0.001	mg/kg	90	92	71-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	94	92	72-120	3	30
Naphthalene	N.D.	0.001	mg/kg	98	93	64-120	5	30
Toluene	N.D.	0.001	mg/kg	86	90	80-120	5	30
Xylene (Total)	N.D.	0.001	mg/kg	84	86	80-120	2	30
Batch number: 15071A34A	Sample number(s): 7794015-7794016							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	86	86	73-120	1	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B150691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7794015	99	95	100	94
7794016	98	99	98	93
Blank	102	101	98	95
LCS	100	109	100	101
LCSD	99	100	100	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 15071A34A

	Trifluorotoluene-F
7794015	82
7794016	80
Blank	89
LCS	87

*- 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.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1543199
Reported: 03/13/2015 16:39

Surrogate Quality Control

LCSD	84
Limits:	50-142

*- 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.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 10869 | For Eurofins Lancaster Laboratories Environmental use only: Group # 1543199 Sample # 779401(5)-16

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 92029 | WBS

Site Address: 890 W. MACARTHUR BLVD., OAKLAND, CA

Chevron PM: CARRYL MACLEOD | Lead Consultant: STANTEC

Consultant/Office: STANTEC CONSULTING SVCS., INC. 1555 LOBGATOS BLVD. C

Consultant Project Mgr.: TRAVIS FLORA

Consultant Phone #: 408-356-6124

Sampler: DEVON OWENS

4 Matrix

Sediment	Ground Water	Potable Water	Surface Water	NPDES	Air
	X				

5 Analyses Requested

Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	3 Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH-GRO 8015	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	DIPE, ETBE, TAME, TBA, ETHANOL (8260.B)	NAPTHALENE (8260.B)
SB-13-E 14	14	3/5/15	0902			X			1	X		X								X	X
SB-13-E 14.5	14.5	3/5/15	0915			X			1	X		X								X	X
SB-13-W	—	3/5/15	0945	X			X		6	X		X								X	X

SCR #: _____

- ☐ Results in Dry Weight
- ☐ 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

6 Remarks

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	3-5-15				
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____			Received by	3.6.15	1020

Temperature Upon Receipt 0.6 °C | Custody Seals Intact? Yes / No

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	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 per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

March 11, 2015

Project: 92029

Submittal Date: 03/03/2015
Group Number: 1542343
PO Number: 0015167993
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
SB-11-W-150225 NA Water	7790293
SB-12-W-150226 NA Water	7790294
SB-14-W-150226 NA Water	7790295
SB-15-W-150227 NA Water	7790296
SB-17-W-150227 NA Water	7790297
SB-18-W-150227 NA Water	7790298
SB-19-W-150226 NA Water	7790299
SB-20-W-150226 NA Water	7790300
SB-21-W-150227 NA Water	7790301

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec	Attn: Marisa Kaffenberger
ELECTRONIC COPY TO	Stantec	Attn: Travis Flora

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SB-11-W-150225 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790293
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/25/2015 15:10 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	0.9	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	2	1	1
10945	Toluene	108-88-3	0.9	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,800	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 07:54	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 07:54	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15067A94A	03/08/2015 15:06	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15067A94A	03/08/2015 15:06	Marie D Beamenderfer	1

Sample Description: SB-12-W-150226 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790294
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/26/2015 08:45 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.5	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,800	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 08:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 08:18	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15067A94A	03/08/2015 17:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15067A94A	03/08/2015 17:13	Marie D Beamenderfer	1

Sample Description: SB-14-W-150226 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790295
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/26/2015 17:05 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	0.8	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	11	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	4	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	8,800	250	5

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 09:30	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 09:30	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 20:11	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 20:11	Marie D Beamenderfer	5

Sample Description: SB-15-W-150227 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790296
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/27/2015 08:45 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	210	25	50
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	2,700	25	50
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1
10945	Naphthalene	91-20-3	900	50	50
10945	Toluene	108-88-3	21	0.5	1
10945	Xylene (Total)	1330-20-7	4,100	25	50
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	43,000	5,000	100

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 09:54	Anita M Dale	1
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150652AA	03/06/2015 11:27	Anita M Dale	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 09:54	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Z150652AA	03/06/2015 11:27	Anita M Dale	50
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 20:39	Marie D Beamenderfer	100
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 20:39	Marie D Beamenderfer	100

Sample Description: SB-17-W-150227 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790297
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/27/2015 14:15 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	4	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	1	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,300	250	5

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 11:54	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 11:54	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 21:06	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 21:06	Marie D Beamenderfer	5

Sample Description: SB-18-W-150227 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790298
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/27/2015 15:50 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	2
10945	Benzene	71-43-2	1,200	10	20
10945	t-Butyl alcohol	75-65-0	29	4	2
10945	Ethanol	64-17-5	N.D.	100	2
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	2
10945	Ethylbenzene	100-41-4	3,100	10	20
10945	di-Isopropyl ether	108-20-3	N.D.	1	2
10945	Methyl Tertiary Butyl Ether	1634-04-4	29	1	2
10945	Naphthalene	91-20-3	910	20	20
10945	Toluene	108-88-3	7	1	2
10945	Xylene (Total)	1330-20-7	76	1	2
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	43,000	1,000	20

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 10:42	Anita M Dale	2
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 11:06	Anita M Dale	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 10:42	Anita M Dale	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Z150642AA	03/05/2015 11:06	Anita M Dale	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 21:33	Marie D Beamenderfer	20
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 21:33	Marie D Beamenderfer	20

Sample Description: SB-19-W-150226 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790299
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/26/2015 12:10 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	3	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	0.6	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	8,300	500	10

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 15:06	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 15:06	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 22:01	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 22:01	Marie D Beamenderfer	10

Sample Description: SB-20-W-150226 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790300
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/26/2015 15:10 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO20

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 17:06	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 17:06	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 13:20	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 13:20	Marie D Beamenderfer	1

Sample Description: SB-21-W-150227 NA Water
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7790301
LL Group # 1542343
Account # 10869

Project Name: 92029

Collected: 02/27/2015 11:35 by DO

Submitted: 03/03/2015 09:30
Reported: 03/11/2015 19:46

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

WMO21

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150642AA	03/05/2015 12:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150642AA	03/05/2015 12:18	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15068A20A	03/09/2015 15:09	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15068A20A	03/09/2015 15:09	Marie D Beamenderfer	1

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1542343
Reported: 03/11/2015 19:46

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z150642AA	Sample number(s): 7790293-7790301							
t-Amyl methyl ether	N.D.	0.5	ug/l	99		75-120		
Benzene	N.D.	0.5	ug/l	99		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	99		78-121		
Ethanol	N.D.	50.	ug/l	95		49-144		
Ethyl t-butyl ether	N.D.	0.5	ug/l	98		69-120		
Ethylbenzene	N.D.	0.5	ug/l	102		80-120		
di-Isopropyl ether	N.D.	0.5	ug/l	100		70-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		75-120		
Naphthalene	N.D.	1.	ug/l	90		59-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	103		80-120		
Batch number: Z150652AA	Sample number(s): 7790296							
Benzene	N.D.	0.5	ug/l	95		78-120		
Ethylbenzene	N.D.	0.5	ug/l	98		80-120		
Naphthalene	N.D.	1.	ug/l	89		59-120		
Xylene (Total)	N.D.	0.5	ug/l	99		80-120		
Batch number: 15067A94A	Sample number(s): 7790293-7790294							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	106	80-139	3	30
Batch number: 15068A20A	Sample number(s): 7790295-7790301							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	126	125	80-139	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z150642AA	Sample number(s): 7790293-7790301 UNSPK: 7790294								
t-Amyl methyl ether	105	109	65-117	4	30				
Benzene	104	107	72-134	3	30				
t-Butyl alcohol	102	103	67-119	1	30				
Ethanol	96	100	53-146	4	30				
Ethyl t-butyl ether	103	106	74-122	3	30				
Ethylbenzene	108	112	71-134	4	30				
di-Isopropyl ether	104	108	70-129	3	30				
Methyl Tertiary Butyl Ether	97	102	72-126	5	30				

*- 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: ChevronTexaco Group Number: 1542343
Reported: 03/11/2015 19:46

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 MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	98	104	52-125	5	30				
Toluene	106	110	80-125	3	30				
Xylene (Total)	106	110	79-125	4	30				
Batch number: Z150652AA	Sample number(s): 7790296 UNSPK: P793268								
Benzene	102	99	72-134	2	30				
Ethylbenzene	107	104	71-134	3	30				
Naphthalene	91	90	52-125	1	30				
Xylene (Total)	107	104	79-125	3	30				

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/5 Oxy's/EtOH/Naphthalene
Batch number: Z150642AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7790293	103	97	101	112
7790294	101	95	100	105
7790295	101	96	101	107
7790296	100	97	100	107
7790297	101	96	100	103
7790298	100	95	100	105
7790299	101	97	101	106
7790300	102	99	100	99
7790301	101	97	100	100
Blank	101	99	100	99
LCS	102	100	100	101
MS	102	100	100	105
MSD	102	101	101	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 15067A94A

	Trifluorotoluene-F
7790293	114
7790294	111
Blank	84
LCS	89
LCSD	98
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 15068A20A

	Trifluorotoluene-F
7790295	97
7790296	89

*- 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: ChevronTexaco Group Number: 1542343
Reported: 03/11/2015 19:46

Surrogate Quality Control

7790297	92
7790298	100
7790299	89
7790300	84
7790301	86
Blank	86
LCS	92
LCSD	91
Limits:	63-135

*- 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.

10869 | 1542343 | 7790293-301

Stantec

Stantec Consulting Services Inc.
15575 Los Gatos Boulevard, Bldg C
Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2/27/15 Page: 4 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER EUROFINS
Lab Phone No.: Lab Fax No.:
Project Number: 211602398
Project Name: CHEVRON 92029

California EDF Report? ☑ Yes ☐ No
Global ID No: T
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 840 W. MACARTHUR BLVD. OAKLAND, CA.

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Project Manager: TRAVIS FLORA

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	Container: SLEEVE	Container: POLY	Container: AMBER	Container: Jar	# of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: VAPOR	Analysis Request: TPH-GRO (8015B)	Analysis Request: 8260B (SW-846) BTEX, MTBE, DIPE, ETBE	Analysis Request: TAME, TBA, ETHANOL	Analysis Request: NAPHTHALENE	Sample Remarks	For Lab Use Only
SB-17@7.5	SB-17	2/27/15	1345		X				1						X		X	X	X	X		
SB-17@10	SB-17	"	1350		X				1						X		X	X	X	X		
SB-18@2.5	SB-18		1415		X				1						X		X	X	X	X		
SB-18@5			1430		X				1						X		X	X	X	X		
SB-16@7.5			1500		X				1						X		X	X	X	X		
SB-18@10			1510		X				1						X		X	X	X	X		
SB-11-W	SB-11	2/25/15	1510	X					6	X				X			X	X	X	X		
SB-12-W	SB-12	2/26/15	0845	X					6	X				X			X	X	X	X		
SB-14-W	SB-14	2/26/15	1705	X					6	X				X			X	X	X	X		
SB-15-W	SB-15	2/27/15	0845	X					6	X				X			X	X	X	X		

Relinquished by: Date 3/2/15 Time 1500 Received by:
Relinquished by: Date Time Received by:
Relinquished by: Date Time Received by Laboratory: 3/3/15 0930

Remarks: ③ KM2 3/3/15

Relinquished By Commercial Carrier: FedEx ✓ UPS ✓ Other

Temperature Upon Receipt 1.0 °C

Bill To: Stantec Los Gatos
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

10869 | 1542343 | 7790293-301

Stantec
Stantec Consulting Services Inc.
15575 Los Gatos Boulevard, Bldg C
Los Gatos, California 95032
Tel:408-356-6124 Fax: 408-356-6138

Date: 2/27/15 Page: 5 of 5

Chain-of-Custody Record and Analysis Request

Project Contact for Results (Hardcopy or PDF To): TRAVIS.FLORA@STANTEC.COM
CC Results to:
Laboratory: LANCASTER LABORATORIES
Lab Phone No.: Lab Fax No.:
Project Number: 21160239B
Project Name: CHEVRON 9Z029

California EDF Report? ☑ Yes ☐ No
Global ID No:
Samplers Name: DEVON OWENS
Samplers Signature:
Project Address: 890 W. MACARTHUR BLVD., OAKLAND, CA

Turn-around Time (Business Days): ☒ Standard ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR

Project Manager: TRAVIS FLORA

Sample Name	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA x3	Container: SLEEVE	Container: POLY	Container: AMBER	Container: Jar	# of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: VAPOR	Analysis Request: TPH-DRO (8015B)	Analysis Request: 8260B (SW-846) BTEX, MTBE, DIPE, ETBE	Analysis Request: 8260B (SW-846) TAME, TBA, ETHANOL	Analysis Request: 8260B (SW-846) NAPHTHENE	Sample Remarks	For Lab Use Only
SB-17-W	SB-17	2/27/15	1415	X					6	X				X			X	X	X	X		
SB-18-W	SB-18	2/27/15	1550	X					6	X				X			X	X	X	X		
SB-19-W	SB-19	2/26/15	1210	X					6	X				X			X	X	X	X		
SB-20-W	SB-20	2/26/15	1510	X					6	X				X			X	X	X	X		
SB-21-W	SB-21	2/27/15	1135	X					6	X				X			X	X	X	X		

Relinquished by:	Date	Time	Received by:
	3/2/15	1500	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory: 3/3/15 0930

Remarks: ③ KMZ 3/3/15

Relinquished By Commercial Carrier: FedEx ✓ UPS ✓ Other

Temperature Upon Receipt 1.0 °C

Bill To: Stantec Los Gatos
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	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 per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

March 12, 2015

Project: 92029

Submittal Date: 03/06/2015
Group Number: 1543200
PO Number: 0015167993
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
SB-13-W-150305 Grab Groundwater	7794017

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec	Attn: Marisa Kaffenberger
ELECTRONIC COPY TO	Stantec	Attn: Travis Flora

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SB-13-W-150305 Grab Groundwater
Facility# 92029
890 W Macarthur-Oakland T0600173887

LL Sample # WW 7794017
LL Group # 1543200
Account # 10869

Project Name: 92029

Collected: 03/05/2015 09:45 by DO

Submitted: 03/06/2015 10:20
Reported: 03/12/2015 19:28

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MOS13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	4	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/5 Oxy's/EtOH/Naphthalene	SW-846 8260B	1	Z150682AA	03/09/2015 16:40	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150682AA	03/09/2015 16:40	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15070A20A	03/11/2015 14:17	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15070A20A	03/11/2015 14:17	Brett W Kenyon	1

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1543200
Reported: 03/12/2015 19:28

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z150682AA	Sample number(s): 7794017							
t-Amyl methyl ether	N.D.	0.5	ug/l	103		75-120		
Benzene	N.D.	0.5	ug/l	103		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	107		78-121		
Ethanol	N.D.	50.	ug/l	91		49-144		
Ethyl t-butyl ether	N.D.	0.5	ug/l	103		69-120		
Ethylbenzene	N.D.	0.5	ug/l	106		80-120		
di-Isopropyl ether	N.D.	0.5	ug/l	104		70-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	107		75-120		
Naphthalene	N.D.	1.	ug/l	96		59-120		
Toluene	N.D.	0.5	ug/l	108		80-120		
Xylene (Total)	N.D.	0.5	ug/l	107		80-120		
Batch number: 15070A20A	Sample number(s): 7794017							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	123	122	80-139	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z150682AA	Sample number(s): 7794017 UNSPK: P795055								
t-Amyl methyl ether	101	105	65-117	4	30				
Benzene	105	109	72-134	4	30				
t-Butyl alcohol	102	105	67-119	3	30				
Ethanol	99	103	53-146	4	30				
Ethyl t-butyl ether	101	106	74-122	5	30				
Ethylbenzene	108	114	71-134	5	30				
di-Isopropyl ether	103	107	70-129	4	30				
Methyl Tertiary Butyl Ether	102	107	72-126	5	30				
Naphthalene	93	99	52-125	6	30				
Toluene	108	114	80-125	6	30				
Xylene (Total)	109	113	79-125	4	30				

Surrogate Quality Control

*- 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: ChevronTexaco Group Number: 1543200
Reported: 03/12/2015 19:28

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/5 Oxy's/EtOH/Naphthalene
Batch number: Z150682AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7794017	102	99	101	98
Blank	104	98	99	99
LCS	103	101	100	102
MS	104	101	101	103
MSD	103	101	101	103
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 15070A20A

	Trifluorotoluene-F
7794017	85
Blank	88
LCS	91
LCSD	92
Limits:	63-135

*- 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.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 10869 For Eurofins Lancaster Laboratories Environmental use only Group # 1543200 Sample # 779401 7

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 92029 WBS

Site Address 890 W. MACARTHUR BLVD. OAKLAND, CA

Chevron PM CARRYL MACLEOD Lead Consultant STANTEC

Consultant/Office STANTEC CONSULTING SVCS., INC. 15575 LOS GATOS BLVD.

Consultant Project Mgr. TRAVIS FLORA

Consultant Phone # 408-356-6124

Sampler DEVON OWENS

4 Matrix

Soil	Water	Oil
Sediment ☐	Ground ☒	Surface ☐
	Potable ☐	NPDES ☐
		Air ☐
Soil ☒		

3 Grab / Composite

5 Analyses Requested

Total Number of Containers

BTEX + MTBE: 8021 ☐ 8260 ☑

TPH-GRO: 8015 ☒ 8260 ☐

TPH-DRO 8015 without Silica Gel Cleanup ☐

TPH-DRO 8015 with Silica Gel Cleanup ☐

8260 Full Scan

Oxygenates

Total Lead Method

Dissolved Lead Method

DIPE, ETBE, TAME, TBA, ETHANOL (8260.B)

NAPHTHALENE (8260.B)

2 Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8260	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	DIPE, ETBE, TAME, TBA, ETHANOL (8260.B)	NAPHTHALENE (8260.B)
SB-13@14	14	3/5/15	0900			X			1	X	X							X	X
SB-13@14.5	14.5	3/5/15	0915			X			1	X	X							X	X
SB-13-W	—	3/5/15	0945	X			X		6	X	X							X	X

SCR #: _____

- ☐ Results in Dry Weight
- ☐ 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

6 Remarks

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time (9)
	3-5-15				
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____			Received by	Date 3.6.15	Time 1020

Temperature Upon Receipt 0.6 °C

Custody Seals Intact? Yes No

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	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 per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

APPENDIX D
GROUNDWATER SAMPLING FIELD DATA SHEETS

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 211602398 Purged By: D. OWENS Well I.D.: SB-11

Client Name: CHEVRON EMC Sampled By: D. OWENS / S. SUNG Sample I.D.: SB-11-W

Location: CHEVRON 92029 What QA Samples?: ←

Date Purged: [redacted] Start (2400hr): ← End (2400hr): ←

Date Sampled: 2/25/15 Sample Time (2400hr): 1510

Casing Diameter:	2" ___	3" ___	4" ___	5" ___	6" ___	8" ___	Other 3/4 "
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 11.4

Depth to water (feet) = 6.05

Water column height (feet) = 5.35

Casing Volume (gal) = ___

Calculated Purge (gal) = ___ (3 casing vols.)

Actual Purge (gal) = ___

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/25/15	1450		19.4	1021	7.1			34
"	1455		18.7	804	7.0			41
"	1500		18.4	753	7.0			40

* D.O. ___ mg/l, ___ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump

___ Active Extraction Well Pump

___ Submersible Pump

___ Peristaltic Pump

Other: ___

Pump Depth: ___ (feet)

X Bailer (disposable)

___ Bailer (PVC)

___ Bailer (Stainless Steel)

___ Dedicated ___

SAMPLING EQUIPMENT

___ WW Bladder Pump

___ Sample Port

___ Submersible Pump

___ Peristaltic Pump

Other: ___

X Bailer (disposable)

___ Bailer (PVC)

___ Bailer (Stainless Steel)

___ Dedicated: ___

Analyses: ←

Sample Vessel / Preservative: ___ Odor: ___

Well Integrity: ___

Remarks: * NO D.O. TAKEN.

Signature: ___

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 2116023,98 | Purged By: D. owens | Well I.D.: SB-12
Client Name: Chevron EMC | Sampled By: D. owens/S. SUNG | Sample I.D.: SB-12-W
Location: Chevron 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/26/15 | Sample Time (2400hr): 0845

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 10.0 | Casing Volume (gal) = —
Depth to water (feet) = 5.6 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 4.4 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/26/15	0842		17.6	954	6.8			-52
	0844		17.9	878	6.8			-51
	0845		18.0	850	6.8			-49

X D.O. _____ mg/l, _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Depth: _____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: _____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: _____

Analyses: _____
Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
Remarks: NO D.O TAKEN.

Signature: _____ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023.98 Purged By: D. Owens Well I.D.: SB-13
Client Name: Chevron USA Sampled By: D. Owens/S. Sink Sample I.D.: SB-13-W
Location: Chevron 97029 What QA Samples?: —

Date Purged: — Start (2400hr): — End (2400hr): —
Date Sampled: 3/5/15 Sample Time (2400hr): 0945

Casing Diameter: 2" ___ 3" ___ 4" ___ 5" ___ 6" ___ 8" ___ Other 3/4"
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 16.0 Casing Volume (gal) = ___
Depth to water (feet) = 7.5 Calculated Purge (gal) = ___ (3 casing vols.)
Water column height (feet) = 8.5 Actual Purge (gal) = ___

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
3/5/15	0940		18.6	721	6.9	brown	—	110
"	0942		18.3	712	6.8	"	—	98
"	0943		18.2	711	6.8	"	—	88

+ D.O. ___ mg/l, ___ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Depth: ___ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: ___

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: ___

Analyses: ___
Sample Vessel / Preservative: ___ Odor: ___

Well Integrity: ___
Remarks: NO D.O. TAKEN.

Signature: ___ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 2116023598 | Purged By: D. OWENS | Well I.D.: SB-14
Client Name: CHEVRON EMC | Sampled By: D. OWENS / S. SUNG | Sample I.D.: SB-14-W
Location: CHEVRON 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/26/15 | Sample Time (2400hr): 1705

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 9.85 | Casing Volume (gal) = —
Depth to water (feet) = 6.2 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 3.65 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/26/15	1700		18.1	1354	7.1			207
"	1702		17.7	1160	7.1			185
"	1705		17.5	1100	7.2			168

* D.O. _____ mg/l, _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Depth: _____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: _____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: _____

Analyses: _____
Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
Remarks: * NO D.O. TAKEN

Signature: _____

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023 98 | Purged By: D. OWENS | Well I.D.: SB-15
Client Name: CHEVRON EMC | Sampled By: D. OWENS / S. SUNG | Sample I.D.: SB-15-W
Location: CHEVRON 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/27/15 | Sample Time (2400hr): 0845

Casing Diameter:	2" ___	3" ___	4" ___	5" ___	6" ___	8" ___	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 9.85 | Casing Volume (gal) = ___
Depth to water (feet) = 6.5 | Calculated Purge (gal) = ___ (3 casing vols.)
Water column height (feet) = 3.35 | Actual Purge (gal) = ___

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/27/15	0840		17.1	1289	7.0			106
"	0842		17.0	866	7.0			69
"	0845		16.9	845	7.0			64

* D.O. ___ mg/l, ___ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Depth: ___ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: ___

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: ___

Analyses: ___
Sample Vessel / Preservative: ___ Odor: ___

Well Integrity: ___
Remarks: * NO D.O. TAYLOR.

Signature: ___ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023 9.8 | Purged By: D. OWENS | Well I.D.: SB-17
Client Name: CHEVRON EMC | Sampled By: D. OWENS / S. SUMC | Sample I.D.: SB-17-W
Location: CHEVRON 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/27/15 | Sample Time (2400hr): 1415

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 10.5 | Casing Volume (gal) = —
Depth to water (feet) = 5.7 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 4.8 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/27/15	1410		17.7	1119	6.9			71
"	1412		17.7	1100	6.9			56
"	1415		17.6	910	6.8			49

* D.O. _____ mg/l, _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Depth: _____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: _____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: _____

Analyses: ~~_____~~
Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
Remarks: * NO D.O. TAKEN

Signature: _____ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216 02398 | Purged By: D. OWENS | Well I.D.: SB-18
Client Name: CHEVRON EMC | Sampled By: D. OWENS / S. SUNG | Sample I.D.: SB-18-W
Location: CHEVRON 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/27/15 | Sample Time (2400hr): 1550

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 10.6 | Casing Volume (gal) = —
Depth to water (feet) = 8.9 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 1.7 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/27/15	1550	—	17.9	1226	7.0	—	—	-29

* D.O. ____ mg/l, ____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ____
Pump Depth: ____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: ____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: ____

Analyses: ~~—~~
Sample Vessel / Preservative: ____ Odor: ____

Well Integrity: ____
Remarks: * NO D.O. TAKEN. MILD GAS ODOR.

Signature: ____ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023 98 | Purged By: D. OWENS | Well I.D.: SB-19
Client Name: CHEVRON EMC | Sampled By: D. OWENS / S. SUNB | Sample I.D.: SB-19-W
Location: CHANNEL 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/26/15 | Sample Time (2400hr): 1210

Casing Diameter: 2" ___ 3" ___ 4" ___ 5" ___ 6" ___ 8" ___ Other 3/4"
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 11.85 | Casing Volume (gal) = —
Depth to water (feet) = 9.83 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 2.02 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/26/15	1210	—	20.1	1176	7.1	—	—	-73

D.O. ___ mg/l, ___ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Depth: ___ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: ___

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: ___

Analyses: ___
Sample Vessel / Preservative: ___ | Odor: ___

Well Integrity: ___
Remarks: NO D.O. TAKEN

Signature: ___

Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023 98 | Purged By: D. owens | Well I.D.: SB-20
Client Name: Chevron EMC | Sampled By: D. owens / S. Sung | Sample I.D.: SB-20-W
Location: Chevron 92029 | What QA Samples?: —

Date Purged: — | Start (2400hr): — | End (2400hr): —
Date Sampled: 2/26/15 | Sample Time (2400hr): 1510

	2"	3"	4"	5"	6"	8"	Other 3/4"
Casing Diameter:							
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 9.85 | Casing Volume (gal) = —
Depth to water (feet) = 6.30 | Calculated Purge (gal) = — (3 casing vols.)
Water column height (feet) = 3.55 | Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	ORP
2/26/15	1505		19.0	1257	7.1			178
"	1507		18.5	1068	7.2			160
"	1508		18.2	1117	7.2			157

* D.O. _____ mg/l, _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Depth: _____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: _____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: _____

Analyses: —
Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
Remarks: DI NO D.O. Taken

Signature: _____ Page 1 of __

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 216023985 Purged By: D.Owens Well I.D.: SB-21

Client Name: Chevron EMC Sampled By: D.Owens/S.Sung Sample I.D.: SB-21-W

Location: Chevron 92025 What QA Samples?: —

Date Purged: — Start (2400hr): — End (2400hr): —

Date Sampled: 2/27/15 Sample Time (2400hr): 1135

Casing Diameter:	2" ___	3" ___	4" ___	5" ___	6" ___	8" ___	Other 3/4"
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 12.30 Casing Volume (gal) = —

Depth to water (feet) = 10.65 Calculated Purge (gal) = — (3 casing vols.)

Water column height (feet) = 1.65 Actual Purge (gal) = —

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	DTW (ft)	CRP
2/27/15	1135	—	17.0	705	7.2	—	—	202

* D.O. ____ mg/l, ____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ____
Pump Depth: ____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: ____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: ____

Analyses: —

Sample Vessel / Preservative: ____ Odor: ____

Well Integrity: ____

Remarks: * D.O. Not Taken

Signature: ____ Page 1 of __

APPENDIX E
WASTE MANIFEST

2139326 41,660

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAR000117465	1	(800) 424-9300	WR2794-001

5. Generator's Name and Mailing Address
Chevron Environmental Management Co
c/o Chevron Products Company Waste Desk
P.O. Box 6004
San Ramon, CA 94583
Generator's Phone: (877) 386-6044

Generator's Site Address (if different than mailing address)
Chevron 92029
890 West MacArthur Blvd.
Oakland, CA 94608

6. Transporter 1 Company Name: BELSHIRE — **U.S. EPA ID Number**: CAR000183913

7. Transporter 2 Company Name — **U.S. EPA ID Number**:

8. Designated Facility Name and Site Address
Altamont Landfill and Resource Recovery Fac.
10840 Altamont Pass Road
Livermore, CA 94550
Facility's Phone: (925) 455-7300
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON DOT REGULATED MATERIAL (Soil Contaminated with Petroleum Products, Non Hazardous)	002	DM	1200	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WMI Altamont SO # 0015169671
BESI:254370
ERG: N/A
SITE ID. 92029
WR2794
PROFILE #: 622396CA
WEAR LEVEL D PPE & SPLASH PROTECTION (IF APPLICABLE)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Larry Moothart of BESI on behalf of generator — Signature — Month: 04 Day: 30 Year: 15

INTL
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Darrell Parks — Signature: DParks — Month: 04 Day: 30 Year: 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: John Schaeffler — Signature — Month: 4 Day: 30 Year: 15

DESIGNATED FACILITY TO GENERATOR

169-BLC-O 6 10498 (Rev. 9/09)

APPENDIX F
NEIGHBORHOOD SURVEY QUESTIONNAIRES

Reference: **PROPERTY SURVEY RELATED TO ENVIRONMENTAL CASE #RO0002438 AT 890 WEST MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

SECTION A: Property Information

Street Address of Parcel Surveyed: 3707 Market St. APN: _____

Property Owner Information	Tenant Information *(if not Property Owner)*
Name: [redacted]	Name: _____
Address: 3707 Market St.	Address: _____
City, State, Zip: Oak, CA 94608	City, State, Zip: _____
Telephone: [redacted]	Telephone: _____

Property Use: ☒ Residential ☐ Commercial

	Yes	No
Is the Property occupied by a multi-family complex (e.g. apartment building)?	☐	☒
Is there a well on the Property?	☐	☒
Is there a basement on the Property?	☐	☒
Is there a sump on the Property that pumps groundwater?	☐	☒

SECTION B: (complete if a well exists on the Property)

Number of Wells: _____ Well Diameter(s): _____
Well Depth(s): _____ Pump Depth(s): _____
Well Casing Material: _____
Date(s) the well(s) were installed: _____
How frequently are the well(s) used? _____
Approximate gallons of water pumped during each well cycle: _____
What is the well water used for? ☐ Drinking ☐ Irrigation ☐ Other: _____

SECTION C: (complete if you have a sump on the Property which pumps groundwater

Frequency of use: _____
Approximate gallons of water pumped from the sump each day: _____
Where is the water from the sump discharged? _____

Reference: **PROPERTY SURVEY RELATED TO ENVIRONMENTAL CASE #RO0002438 AT 890 WEST MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

SECTION A: Property Information

Street Address of Parcel Surveyed: 3712 MARKET ST. OAKLAND 94608 APN: _____

Property Owner Information
Name: [redacted]
Address: [redacted]
City, State, Zip: [redacted]
Telephone: [redacted]

Tenant Information *(if not Property Owner)*
Name: [redacted]
Address: 3712 Market ST
City, State, Zip: Oakland CA 94608
Telephone: [redacted]

Property Use: ☐ Residential ☐ Commercial

	Yes	No
Is the Property occupied by a multi-family complex (e.g. apartment building)?	☐	☒
Is there a well on the Property?	☐	☒
Is there a basement on the Property?	☒	☐
Is there a sump on the Property that pumps groundwater?	☐	☒

SECTION B: (complete if a well exists on the Property)

Number of Wells: _____ Well Diameter(s): _____
Well Depth(s): _____ Pump Depth(s): _____
Well Casing Material: _____
Date(s) the well(s) were installed: _____
How frequently are the well(s) used? _____
Approximate gallons of water pumped during each well cycle: _____
What is the well water used for? ☐ Drinking ☐ Irrigation ☐ Other: _____

SECTION C: (complete if you have a sump on the Property which pumps groundwater

Frequency of use: _____
Approximate gallons of water pumped from the sump each day: _____
Where is the water from the sump discharged? _____

APPENDIX G
SWRCB LTCP CHECKLIST

Site Name: Former Chevron-branded Service Station 92029
Site Address: 890 West MacArthur Boulevard, Oakland, California

Site meets the criteria of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.[1]

General Criteria General criteria that must be satisfied by all candidate sites:	
Is the unauthorized release located within the service area of a public water system?	☒ Yes ☐ No
Does the unauthorized release consist only of petroleum?	☒ Yes ☐ No
Has the unauthorized ("primary") release from the UST system been stopped?	☒ Yes ☐ No
Has free product been removed to the maximum extent practicable?	☐ Yes ☐ No ☒ NA
Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?	☒ Yes ☐ No
Has secondary source been removed to the extent practicable?	☒ Yes ☐ No
Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?	☒ Yes ☐ No
Does nuisance as defined by Water Code section 13050 exist at the site?	☐ Yes ☒ No
Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?	☐ Yes ☒ No
Media-Specific Criteria Candidate sites must satisfy all three of these media-specific criteria: **1. Groundwater:** To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites:	
Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent?	☒ Yes ☐ No ☐ NA
Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites? If YES, check applicable class: ☐ **1** ☐ **2** ☐ **3** ☒ **4** ☐ **5**	☒ Yes ☐ No ☐ NA

[1] Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.

For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?	☐ Yes ☐ No ☒ NA
2. Petroleum Vapor Intrusion to Indoor Air: The site is considered low-threat for vapor intrusion to indoor air if site-specific conditions satisfy all of the characteristics of one of the three classes of sites (a through c) or if the exception for active commercial fueling facilities applies. **Is the site an active commercial petroleum fueling facility?** Exception: Satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk. **a. Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4?** If YES, check applicable scenarios: ☐ **1** ☐ **2** ☐ **3** ☐ **4** **b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?** **c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?**	☐ Yes ☒ No ☐Yes ☒ No ☐ NA ☐ Yes ☒ No ☐ NA ☐ Yes ☒ No ☐ NA
3. Direct Contact and Outdoor Air Exposure: The site is considered low-threat for direct contact and outdoor air exposure if site-specific conditions satisfy one of the three classes of sites (a through c). **a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs)?** **b. Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?** **c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?**	☒ Yes ☐ No ☐ NA ☐ Yes ☐ No ☒ NA ☐ Yes ☐ No ☒ NA