Brian Waite
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6486
BWaite@Chevron.com

November 15, 2012

RECEIVED

2:00 pm, Nov 20, 2012

Alameda County
Environmental Health

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

Re: Chevron Facility # 91583

Address: 5509 Martin Luther King Jr. Way, Oakland, CA

I have reviewed the attached report titled *Addendum to Case Closure Request* and dated November 15, 2012.

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

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

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

Sincerely,

Brian A. Waite

Digitally signed by Brian A. Waite
DN: cn=Brian A. Waite, o=Chevron Environmental Management Company, ou=Marketing Business Unit, email=BWaite@chevron.com, c=US
Date: 2012.11.15 08:57:02 -08'00'

Brian Waite
Project Manager

Enclosure: Report

CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
http://www.craworld.com

November 15, 2012 Reference No. 611960D

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

Re: Addendum to Case Closure Request
Former Chevron Service Station 91583
5509 Martin Luther King Jr. Way
Oakland, California
Case No. RO0000002

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Addendum to Case Closure Request* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). CRA previously submitted the January 13, 2012 *Updated Site Conceptual Model and Case Closure Request* (SCM/Closure) (Attachment A), in which case closure was requested based on low-risk conditions. To date, a response to this request has not been received from ACEH.

The purpose of this addendum is to present the results of our evaluation of current site conditions to the general and media-specific closure criteria included in the recently adopted *Low-Threat Underground Storage Tank Case Closure Policy* (the "policy"). The site meets the stated closure criteria; therefore, we are requesting ACEH concur that the site meets low-threat case closure criteria and grant case closure. A summary of the policy, an evaluation of the site conditions to the policy case closure criteria, and our conclusions and recommendations are presented below.

PURPOSE OF THE LOW THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY

On August 17, 2012, the State Water Resources Control Board (SWRCB) adopted the policy via Resolution 2012-0016. The intent of the policy is to increase cleanup process efficiency at petroleum release sites. A benefit of improved efficiency is the preservation of limited resources for mitigation of releases posing the greatest threat to human and environmental health. Per the policy, sites that meet the specified general and media-specific criteria pose a low threat to human health, safety, or the environment and are appropriate for case closure

pursuant to Health and Safety Code section 25296.10. The policy further states that those sites that meet the criteria for low-threat closure do not require further corrective action and shall be issued a uniform closure letter. The general and media-specific criteria are described below.

GENERAL CRITERIA

The eight general criteria that must be satisfied by all candidate sites, and the site-specific evaluation for each of these criteria, are presented below.

a. The unauthorized release is located within the service area of a public water system.

Satisfied: Water for the site and surrounding vicinity is provided by the East Bay Municipal Utility District (EBMUD) from distant surface water sources.

b. The unauthorized release consists only of petroleum.

Satisfied: The unauthorized release at the site has been characterized as a release of petroleum-based products (gasoline and related constituents, motor oil).

c. The unauthorized ("primary") release from the UST system has been stopped.

Satisfied: Petroleum storage and handling facilities that were the source of the release (first-generation fuel dispensers, product piping, and USTs) have been removed from the site or replaced.

d. Free product has been removed to the maximum extent practicable.

Satisfied: Light non-aqueous phase liquid (LNAPL) (approximate thickness of 0.24 feet) was observed in well MW-3 in October 1992. Weekly bailing of MW-3 in November and December 1992 removed approximately 270 milliliters of LNAPL, and it has not been observed in MW-3 since third quarter 1993.

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.

Satisfied: The SCM/Closure was submitted on January 13, 2012.

f. Secondary source has been removed to the extent practicable.

Satisfied: Remedial excavation removed approximately 105 cubic yards of impacted soil from the dispenser and used-oil UST areas (Figure 2). It is not known if any soil was removed during

gasoline UST replacement activities in 1984; however, based on decreasing concentrations in groundwater, there does not appear to be any significant secondary source material in this area.

g. Soil and groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15.

Satisfied: Soil and groundwater samples have been analyzed for MTBE, and reported in accordance with Health and Safety Code section 25296.15.

h. Nuisance as defined by Water Code section 13050 does not exist at the site.

Satisfied: Conditions defined as a "nuisance" in Water Code section 13050 do not exist at the site.

MEDIA-SPECIFIC CRITERIA

Impacts to human health and the environment can occur due to releases from USTs through contact with contaminated media (groundwater, surface water, soil, and soil vapor) via various exposure pathways. In the policy, the most common exposure scenarios have been combined into three media-specific criteria:

1. Groundwater
2. Vapor Intrusion to Indoor Air
3. Direct Contact and Outdoor Air Exposure

Candidate sites must satisfy all three of these criteria, described further below.

Groundwater

It is a fundamental tenet of the policy that if the closure criteria described in the policy are satisfied at an unauthorized petroleum release site, attaining background water quality is not feasible, and applicable water quality objectives (WQOs) will be attained through natural attenuation within a reasonable amount of time, prior to the expected need for use of any affected groundwater. If a site has groundwater with a designated beneficial use that is affected by an unauthorized release, to satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds WQOs must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites listed in the policy as follows:

1. a. The contaminant plume that exceeds WQOs is less than 100 feet in length.
   b. There is no free product.
   c. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.
2. a. The contaminant plume that exceeds WQOs is less than 250 feet in length.
   b. There is no free product.
   c. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary.
   d. The dissolved concentration of benzene is less than 3,000 micrograms per liter (µg/L) and the dissolved concentration of MTBE is less than 1,000 µg/L.
3. a. The contaminant plume that exceeds WQOs is less than 250 feet in length.
   b. Free product may be present below the site but does not extend off-site.
   c. The plume has been stable or decreasing for a minimum of 5 years.
   d. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary.
   e. The property owner is willing to accept a land use restriction if the regulatory agency requires a land use restriction as a condition of closure.
4. a. The contaminant plume that exceeds WQOs is less than 1,000 feet in length.
   b. There is no free product.
   c. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary.
   d. 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.
5. a. The regulatory agency determines, based on an analysis of site specific conditions, that under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and WQOs will be achieved within a reasonable time frame.

Satisfied: The applicable WQOs for the site are the Environmental Screening Levels (ESLs), established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) in 2008. Shallow groundwater is not a current, and in all likelihood, not a potential future source of drinking water. As presented in the SCM/Closure, there are no monitoring or sample points downgradient (northwest) of the site as until recently the groundwater flow direction was calculated to the southeast due to incorrect survey data. However, based on the most recent monitoring data, the only constituent in groundwater that exceeds the ESLs is total petroleum hydrocarbons as motor oil (TPHmo) in well MW-7 (1,100 µg/L in September 2012;

ESL of 210 µg/L) located on the downgradient side of the site (Figure 2). Given the limited mobility of heavier-end hydrocarbons such as motor oil in the environment, the TPHmo plume is not expected to extend significantly downgradient of the site. The length of the TPHmo plume likely does not exceed 100 feet but can conservatively be assumed to not exceed 250 feet.

Given this information regarding the plume length, the site satisfies the characteristics of Class 2 listed above. There is no LNAPL at the site, no water supply wells were identified within 1,000 feet in the downgradient direction, and the nearest surface water body is greater than 1,000 feet from the site. Benzene is no longer detected in groundwater and the maximum MTBE concentration is 2 µg/L. A copy of the most recent groundwater monitoring report is included as Attachment B.

Petroleum Vapor Intrusion to Indoor Air

The low-threat vapor intrusion criteria described below apply to sites where the release originated and impacted or potentially impacted adjacent parcels when: (1) existing buildings are occupied or may be reasonably expected to be occupied in the future, or (2) buildings for human occupancy are reasonably expected to be constructed in the future.

Petroleum release sites will satisfy the media-specific screening criteria for petroleum vapor intrusion if:

a. Site-specific conditions at the release site satisfy all of the characteristics and criteria of scenarios 1 through 3 as applicable, or all of the characteristics and criteria of scenario 4 as applicable; or,
b. A site-specific risk assessment for vapor intrusion is conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency; or,
c. The regulatory agency determines there is no significant risk of adversely affecting human health through the use of institutional or engineering controls.

Scenarios 1-4 of criteria (a) (existing building or future construction) are described below.

Scenario 1: Unweathered* LNAPL in Groundwater

- Depth to groundwater with unweathered* LNAPL is ≥30 feet below building foundation.
- Total TPH (TPHg + TPHd) in soil within 30 feet below building foundation is <100 milligrams per kilogram (mg/kg).

Scenario 2: Unweathered* LNAPL in Soil

- Unweathered* LNAPL in soil is ≥30 feet from building foundation in all directions, and depth to groundwater is >30 feet below building foundation.
- Total TPH in soil within 30 feet of building foundation in all directions is <100 mg/kg.

Scenario 3A: No LNAPL, dissolved phase benzene in groundwater

- Depth to groundwater is ≥5 feet below building foundation.
- Dissolved benzene in groundwater is <100 µg/L.
- Total TPH in soil within 5 feet below building foundation is <100 mg/kg.
- Oxygen (O_2) concentration in soil within 5 feet below building foundation is <4%, or no O_2 data.

Scenario 3B: No LNAPL, dissolved phase benzene in groundwater

- Depth to groundwater is ≥10 feet below building foundation.
- Dissolved benzene in groundwater is ≥100 µg/L and <1,000 µg/L.
- Total TPH in soil within 10 feet below building foundation is <100 mg/kg.
- O_2 concentration in soil within 10 feet below building foundation is <4%, or no O_2 data.

Scenario 3C: No LNAPL, dissolved phase benzene in groundwater

- Depth to groundwater is ≥5 feet below building foundation.
- Dissolved benzene in groundwater is <1,000 µg/L.
- Total TPH in soil within 5 feet below building foundation is <100 mg/kg.
- O_2 concentration in soil within 5 below building foundation is ≥4%.

Scenario 4A: Direct soil gas measurements at least 5 feet below grade or foundation at sites without bioattenuation zone**

	Benzene µg/m³	*Ethylbenzene µg/m³*	*Naphthalene µg/m³*
Residential	<85	<1,100	<93
Commercial	<280	<3,600	<310

µg/m³ – micrograms per cubic meter

Scenario 4B: Direct soil gas measurements at least 5 feet below grade or foundation at sites with bioattenuation zone**

	Benzene µg/m³	*Ethylbenzene µg/m³*	*Naphthalene µg/m³*
Residential	<85,000	<1,100,000	<93,000
Commercial	<280,000	<3,600,000	<310,000

*Unweathered LNAPL is comparable to recently dispensed fuel where product has not been subjected to significant volatilization or solubilization.
**Bioattentuation zone = total TPH <100 mg/kg in upper 5' of soil, and ≥4% oxygen in soil at 5' sample depth; a 1,000-fold bioattenuation of petroleum vapors is assumed for the zone.

Petroleum release sites shall satisfy the media-specific criteria for petroleum vapor intrusion to indoor air and be considered low-threat for the vapor intrusion to indoor air pathway if any of the above criteria are met. However, for active commercial petroleum fueling facilities, satisfaction of these criteria is not required, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk.

Satisfied: As the site is an active commercial fueling station (Super Stop), satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required.

However, to further support the conclusion of no unacceptable health risk, no benzene or ethylbenzene was detected in the soil vapor samples collected in 2008 (see Table 3 of Attachment A). The laboratory reporting limits were below the most conservative soil gas criteria outlined in the policy (scenario 4A above; residential land use, no bioattenuation zone).

Direct Contact and Outdoor Air Exposure
The policy describes conditions where direct contact with contaminated soil or inhalation of contaminants volatized to outdoor air poses a low threat to human health. Release sites where human exposure may occur satisfy the media-specific criteria for direct contact and outdoor air exposure and shall be considered low-threat if they meet any one of the following:

a. Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the table below for the specified depth below ground surface. The limits from 0 to 5 feet below grade (fbg) protect from ingestion, dermal contact, and outdoor inhalation of volatile and particulate emissions. The 5 to 10 fbg limits protect from inhalation of volatile emissions only; the ingestion and dermal contact pathways are not considered significant. In addition, if exposure to construction

workers or utility trench workers is reasonably anticipated, the concentration limits for Utility Worker shall also be satisfied.

Constituent	*Residential*		*Commercial/Industrial*		*Utility Worker*
	0–5 fbg (mg/kg)	***Volatilization to outdoor air (5–10 fbg) (mg/kg)***	***0–5 fbg (mg/kg)***	***Volatilization to outdoor air (5–10 fbg) (mg/kg)***	***0–10 fbg (mg/kg)***
Benzene	1.9	2.8	8.2	12	14
Ethylbenzene	21	32	89	134	314
Naphthalene	9.7	9.7	45	45	219
PAH*	0.063	NA	0.68	NA	4.5

* Based on the seven carcinogenic polycyclic aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe]. The PAH screening level is only applicable where soil is affected by either waste oil and/or Bunker C fuel.
NA = not applicable

b. Maximum concentrations of petroleum constituents in soil are 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, the regulatory agency determines that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health.

Satisfied: The site meets criteria (a) above. No benzene or ethylbenzene were detected between 0 and 10 fbg in soil remaining at the site (see Table 2 of Attachment A). The depth of sample SS-1 collected in 1989 is unknown, but the detected benzene and ethylbenzene concentrations did not exceed the screening levels listed above. No naphthalene or PAHs were detected in the sample collected at 7.5 fbg beneath the hoist/clarifier. No samples collected from 0 to 5 fbg were analyzed for naphthalene or PAHs; however, the samples collected at 10.5 and 11 fbg beneath the former used-oil UST contained no naphthalene or PAHs and soil above 10 fbg in the area of the UST was excavated and removed.

CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this and previous reports, site conditions meet the general and media-specific criteria of a low-threat UST release case established in the policy, and therefore pose a low threat to human health, safety, and the environment. A completed SWRCB low-threat checklist is included as Attachment C. The site satisfies the case closure requirements of Health and Safety Code section 25296.10, and case closure is consistent with Resolution 92-49 that requires cleanup goals be met within a reasonable time frame. Therefore, on behalf of Chevron, CRA respectfully requests ACEH grant case closure.

As the impacted groundwater poses no significant threat to human health or the environment, effective immediately, Chevron shall cease groundwater monitoring and sampling activities pending a response and further direction from ACEH.

CONESTOGA-ROVERS & ASSOCIATES

November 15, 2012 Reference No. 611960D

We appreciate your assistance on this project and look forward to your reply. Please contact James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

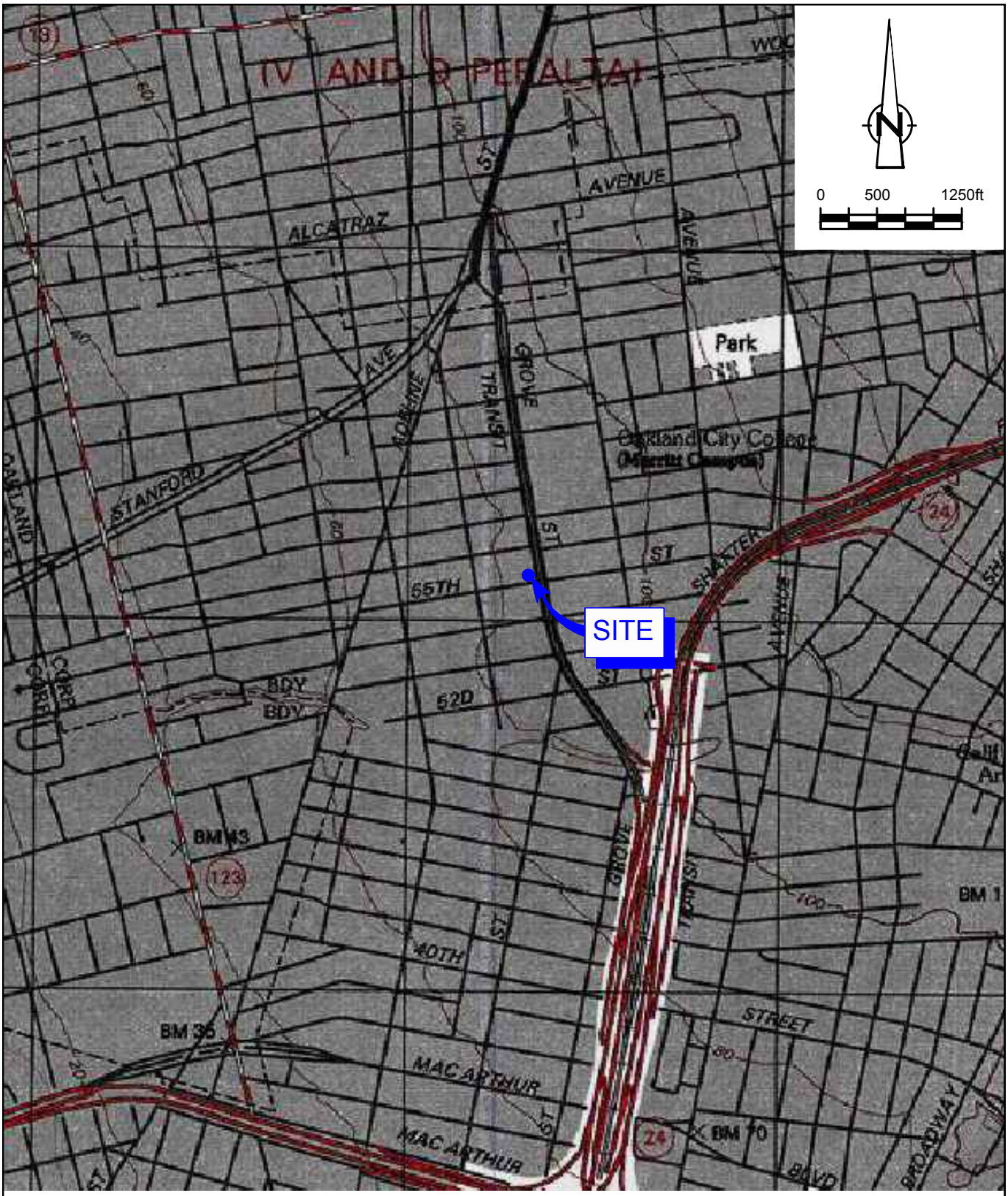
Benjamin R. Summersett James P. Kiernan, P.E.

BS/de/12
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Attachment A	January 13, 2012 *Updated Site Conceptual Model and Case Closure Request*
Attachment B	Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report
Attachment C	Low-Threat Checklist

cc: Mr. Brian Waite, Chevron *(electronic copy)*
Evelyn Schlichting Trust c/o Mr. Ben Shimek, Petroleum Sales, Inc.

FIGURES



SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP
FORMER CHEVRON SERVICE STATION 91583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California

611960D-00(012)GN-WA001 OCT 26/2012

56th STREET

0 20 40ft

RESIDENTIAL

FORMER USED OIL TANK

VP-3 MW-7 PLANTER MW-4

VP-4

WN-10.5

B-5

WW-10.5 WE-11 SITE

WS-10.5

H1/CL-7.5

MW-8

VP-5

H2-8

FORMER HOISTS

VP-2

DISP 1/2 (3.5') A

F DISP 5/6 (3.5')

B/SS-1

H3-6

D

EXISTING STATION BUILDING

VP-1

C B-4

PLANTER

E

DISP 3/4 (3.5')

DISPENSER ISLANDS

DISP 7/8 (3.5')

MW-3 B-1

USTS

MW-2

MW-1 B-2

B-3

MARTIN LUTHER KING JR. WAY

OVERHEAD ELECTRICAL AND TELEPHONE LINES

55th STREET

MW-6 MW-5

APARTMENT BUILDING

USTS

DISPENSER ISLANDS

76 STATION BUILDING

LEGEND

VP-1 ▲ VAPOR WELL LOCATION

MW-1 ● MONITORING WELL LOCATION

B-1 ⊡ HAND AUGER BORING LOCATION

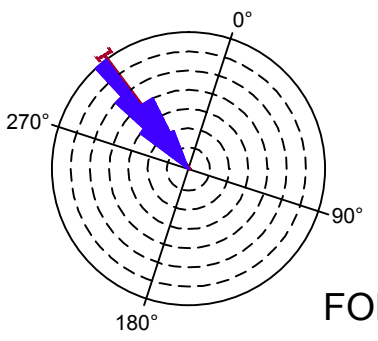
A ⊠ SOIL SAMPLE LOCATION

E ELECTRICAL LINE (OVERHEAD WHERE LABELED)

STM STORM DRAIN

W WATER LINE

APPROXIMATE EXTENT OF EXCAVATION



HISTORICAL GROUNDWATER FLOW DIRECTION

Figure 2

SITE PLAN

FORMER CHEVRON SERVICE STATION 91583

5509 MARTIN LUTHER KING JR. WAY

Oakland, California

611960D-00(012)GN-WA002 OCT 26/2012

ATTACHMENT A

JANUARY 13, 2012 UPDATED SITE CONCEPTUAL MODEL AND CASE CLOSURE REQUEST

Olivia Skance
Team Lead
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6521

January 13, 2012

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

Re: Chevron Facility # 9-1583

Address: 5509 Martin Luther King Jr. Way, Oakland, California

I have reviewed the attached report titled *Updated Site Conceptual Model and Case Closure Request* and dated January 13, 2012.

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

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

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

Sincerely,

Olivia Skance
Project Manager

Enclosure: Report

CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

TRANSMITTAL

DATE: January 13, 2012

REFERENCE NO.: 611960

PROJECT NAME: Former Chevron 9-1583 (RO2)

TO: Mr. Mark Detterman, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other Upload to ftp site

QUANTITY	DESCRIPTION
1	Updated Site Conceptual Model and Case Closure Request

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☒ Final reports
- ☐

COMMENTS:

Copy to: Evelyn Schlichting Trust
c/o Mr. Ben Shimek
Petroleum Sales, Inc.

Completed by: James Kiernan [Please Print]

Signed:

Filing: **Correspondence File**

UPDATED SITE CONCEPTUAL MODEL AND CASE CLOSURE REQUEST

FORMER CHEVRON STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA
CASE NO. RO0000002

Prepared For:

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

Prepared by:
Conestoga-Rovers & Associates

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Fax: (916) 889-8999

web: http:\\www.CRAworld.com

JANUARY 13, 2012
REF. NO. 611960 (4)
This report is printed on recycled paper.

UPDATED SITE CONCEPTUAL MODEL AND CASE CLOSURE REQUEST

FORMER CHEVRON STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA
CASE NO. RO0000002

David W. Herzog, P.G

James P. Kiernan, P.E.

Prepared by:
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JANUARY 13, 2012
REF. NO. 611960 (4)
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(Following Text)

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APPENDIX F DOMENICO MODEL

APPENDIX G SOIL VAPOR ANALYTICAL REPORT

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this *Updated Site Conceptual Model and Case Closure Request* on behalf of Chevron Environmental Management Company (Chevron) for former Chevron service station 9-1583 located at 5509 Martin Luther King Jr. Way in Oakland, California. Based on our review of the site background and conditions, the site meets the San Francisco Bay Regional Water Quality Control Board (RWQCB) criteria for closure as a low-risk groundwater case as described in their January 5, 1996 memorandum entitled *Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*. Presented below are the site description and background, site conditions and discussion of remaining impacts, an evaluation of potential risk, the rationale for closure based on the low-risk criteria, and our conclusions and recommendations.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is located on the northwest corner of the intersection of Martin Luther King Jr. Way (formerly Grove Street) and 55th Street (Figure 1), and is currently occupied by a Super Stop gas station. Existing station facilities include three 10,000-gallon fuel underground storage tanks (USTs), four dispenser islands, and a station building. The site is bounded by Martin Luther King Jr. Way to the east, 55th Street to the south, a single-family residential property to the west, and single- and multi-family residential properties to the north.

The site was occupied by a Chevron service station from approximately 1968, when Chevron first leased the property, through 1998. In addition to the existing facilities, a 1,000-gallon used-oil UST, three hydraulic hoists, and an oil-water clarifier were also present at the site. The four USTs reportedly were installed in 1984; no information regarding previous USTs is known. Since that time, the product piping has been upgraded (1989), the used-oil UST removed (1995), the hydraulic hoists and clarifier removed (1998), and the dispensers upgraded (1998). Chevron sold the station facilities in November 1998. The site has been occupied by the Super Stop station since 2003. The USTs appear to have been reconfigured sometime after 2003, as three grades of gasoline and diesel are currently dispensed at the site. Current and former site features are shown on Figure 2.

Environmental work has been ongoing since 1983 and has included the installation of monitoring wells MW-1 through MW-8 and soil vapor wells VP-1 through VP-5, the drilling of borings B-1 through B-5, and confirmation sampling during UST and fueling system removal/upgrade work. Remedial activities have consisted of over-excavation

during product piping upgrade work and used-oil UST removal (approximately 105 cubic yards); and removal of a small volume of light non-aqueous phase liquid (LNAPL) from MW-3 via hand bailing in 1992. A summary of the environmental work is presented in Appendix A. The approximate well, boring, and soil sample locations, and the excavation extents, are shown on Figure 2. The historical soil, groundwater, and soil vapor analytical results are presented in Tables 1 through 3, respectively.

Land use in the vicinity of the site is mixed commercial and residential. A 76 service station is present to the south of the site across 55th Street. This facility was a fuel release case that was closed in 2010 (former BP #11127 at 5425 Martin Luther King Jr. Way; ACEH Case No. RO0000241).

3.0 SITE CHARACTERISTICS

3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located in the East Bay Plain groundwater sub-basin[1], approximately 1.5 miles east of San Francisco Bay, and 2 miles north of Lake Merritt. The basin is an elongated, northwest–trending, flat alluvial plain occupying approximately 115 square miles. The bottom of the basin is the contact between the consolidated and unconsolidated sediments, which can occur at maximum depths of 1,000 feet. The Oakland Sub-area consists of a series of alluvial fan deposits. There are no well-defined estuarine mud units that act as aquitards for groundwater migration[2]. Designated beneficial uses for groundwater according to the basin plan include municipal, industrial, and agricultural uses.

The site elevation is approximately 85 feet above mean sea level and local topography slopes gently to the west-southwest toward San Francisco Bay. Soil in the site vicinity consists of Holocene-age, medium-grained alluvium consisting of unconsolidated, moderately sorted, fine sand, silt, and clayey silt with a few thin beds of coarse sand[3]. These materials are underlain by late Pleistocene-age alluvium consisting of weakly consolidated, slightly weathered, poorly sorted, interbedded clay, silt, sand, and gravel.

1. RWQCB, 2007, San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), January 18.
2. Department of Water Resources Bulletin 118 (Basin Number 2-9.04).
3. Helley E. J., et al., 1979, Flatland Deposits of the San Francisco Bay Region, California: U.S. Geological Survey Professional Paper 943.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

Soil encountered beneath the site has predominantly been clay with some silt and trace sand to the maximum explored depth of 26.5 feet below grade (fbg). South of the site, soil has included minor discontinuous clayey to silty sand and sand bedding. Copies of the historical site boring logs are presented in Appendix B. Geologic cross-sections depicting the best available information on the shallow subsurface are presented on Figures 3 and 4.

Groundwater was encountered during drilling at depths ranging from approximately 10 to 18 fbg. Depth to groundwater in the site wells has ranged from approximately 6.5 to 16 feet below top of casing (TOC), but typically fluctuates between 8 and 13 feet below TOC. The historical range of groundwater elevations measured in the wells is shown on the cross-sections (Figures 3 and 4).

Prior to 1995, the calculated groundwater flow direction was consistently to the north-northwest toward San Francisco Bay. Following the installation of wells MW-7 and MW-8 in the northwest portion of the site, the flow direction appeared to shift approximately 180 degrees to the east-southeast. CRA reviewed historic monitoring data to evaluate why the flow direction appeared to shift away from the expected direction, and concluded that the apparent shift was due to differences in well elevation survey data. Wells MW-1 through MW-6 were surveyed in 1990 using the National Vertical Geodetic Datum (NVGD 1929) as the reference datum, while wells MW-7 and MW-8 were surveyed in 1994 using the North American Vertical Datum of 1988 (NAVD 88) as the reference datum. The measured groundwater elevations in MW-7 and MW-8 were consistently 1 to 2 feet higher than those in the remaining wells, resulting in the calculated flow direction being to the southeast. There reportedly is a difference between NVGD 1929 and NAVD 88 of approximately 0.835 meters (2.74 feet). CRA had all the site wells resurveyed in 2009 using the same reference datum, and corrected the previous groundwater elevations in MW-7 and MW-8 with the new data, resulting in a groundwater flow direction to the northwest (see rose diagram on Figure 2). The updated survey data along with the well construction details are presented in Table 4.

3.3 NEARBY WELLS AND SENSITIVE RECEPTORS

Nearby Wells

In 2002, Delta Environmental Consultants, Inc. (Delta) reviewed California Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) files

to identify any water-supply wells within 2,000 feet of the site. One well was identified within the search radius: an industrial well approximately 1,400 feet northwest (downgradient). Delta also identified a cathodic protection well as being within the radius; however, this well was mapped incorrectly and was not within 2,000 feet of the site. A copy of Delta's August 1, 2002 Sensitive Receptor Survey report is presented in Appendix C.

A well survey conducted in 2010 by ARCADIS for the former BP facility identified one irrigation and two industrial wells within ½-mile, along with numerous non-water supply wells. Details were not available, however, the irrigation well was located upgradient, and the wells located downgradient were approximately ½-mile from the facility and predominantly monitoring wells (Appendix C).

Sensitive Receptors

Also in 2010, ARCADIS performed an internet search to identify any sensitive receptors within 2,500 feet of the former BP facility. Three schools were identified; however, all were located at least 1,200 feet southwest (crossgradient).

As previously mentioned, residential properties are located to the north and west of the site (Figure 2). In 2011, CRA also performed an internet search to identify any potential sensitive receptors within ½-mile of the site and identified the following:

- VAT Daycare – 900 feet southwest
- Santa Fe Elementary School – 1,200 feet southwest
- Children's Hospital & Research Center – 1,400 feet south-southeast
- Oakland High School – 1,700 feet southwest
- Grace Children's Center – 2,400 feet southwest

As shown above, all the identified potential sensitive receptors are located up- or crossgradient of the site.

Local Water Supply

The local water supply is provided by East Bay Municipal Utility District (EBMUD); the source is the Mokelumne River Basin in the Sierra Nevada range. Shallow groundwater in the site area is not likely to be used as a drinking water source in the foreseeable future.

Nearest Surface Water Body

The nearest surface water body appears to be Temescal Creek approximately 1,400 feet south (up- to crossgradient). However, the creek in this area is shown as an underground culvert. A map showing the creek location is presented in Appendix C.

3.4 PREFERENTIAL PATHWAYS

Underground utilities identified within the streets to the east and south of the site included storm drain, sanitary sewer, electric, telephone, and water lines buried at depths of 4 to 22 fbg; however, these utilities are in the upgradient direction and thus not likely preferential pathways of concern.

4.0 CONSTITUENTS OF CONCERN

4.1 SOIL

Based on the historical data, the primary constituent of concern (COC) in remaining soil (i.e. not excavated) is total petroleum hydrocarbons as gasoline (TPHg). However, TPHg was only detected in one onsite soil sample (SS-1) (670 milligrams per kilogram [mg/kg]). As shown in Table 1, TPHg was also detected in two of the soil samples collected from the borings for wells MW-5 and MW-6; however, these wells are upgradient of the site and therefore the detections are likely attributable to the former BP facility. Benzene, toluene, ethylbenzene, and xylenes (BTEX) are less significant COCs in soil, as they were only detected at low concentrations in two samples (benzene only in one sample at 0.7 mg/kg).

Total recoverable petroleum hydrocarbons (TRPH) were detected in the four soil samples collected from the used-oil UST excavation. This excavation was subsequently deepened to below groundwater and thus no additional samples were collected. Regardless, heavier-end hydrocarbons such as TRPH exhibit characteristics of low mobility and low toxicity in the environment and would not be expected to significantly migrate vertically or horizontally away from the tank area. Therefore, TRPH does not appear to be a COC in soil.

TPH as diesel (TPHd), methyl tertiary butyl ether (MTBE) and other fuel oxygenates, volatile organic compounds (VOCs), and semi-VOCs generally were not detected in any of the soil samples analyzed with the exception of low TPHd and trace MTBE in one sample each (Table 1); therefore, none of these constituents appear to be COCs in soil.

4.2 GROUNDWATER

Based on the historical data, the primary COCs remaining in groundwater are TPHg and MTBE. However, TPHg only remains in well MW-8, and only at a low concentration (120 micrograms per liter [µg/L]). Only low concentrations of MTBE (up to 5 µg/L) remain in four of the wells. BTEX have not been detected since at least 2008 and ethanol was not detected in any of the wells. Other fuel oxygenates, 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) were not detected in groundwater samples collected in 2007 (Table 2). Only low concentrations of TPHd historically were detected. Therefore, these constituents are not COCs in groundwater.

TPH as motor oil (TPHmo) is present in wells MW-7 and MW-8. However, as mentioned above, heavier-end hydrocarbons are not a significant concern with regards to potential risk to human health or the environment. Therefore, TPHmo is not a primary COC in groundwater.

5.0 PETROLEUM HYDROCARBON SOURCES AND DISTRIBUTION

5.1 RELEASE SOURCE AND VOLUME

Based on previous investigations and UST/piping removal confirmation sampling, the primary source(s) of the released petroleum hydrocarbons appears to be the former USTs and dispensers. Although the volume of released hydrocarbons is unknown, approximately 100 cubic yards of impacted soil was excavated and removed. This remedial action has adequately mitigated the release as evidenced by decreasing hydrocarbon concentrations in groundwater and lack of dissolved-phase BTEX.

5.2 POTENTIAL OFFSITE SOURCES

The upgradient former BP facility may potentially be contributing to the impacts at the site. Wells MW-5 and MW-6 are located just downgradient of the former BP facility. While petroleum hydrocarbons generally have not been detected in MW-5, MW-6 historically contained MTBE. As low concentrations of MTBE are present beneath the subject site, the MTBE may, at least partially, have originated from this offsite facility.

5.3 PETROLEUM HYDROCARBONS IN SOIL

As described above, the COCs were only detected in two onsite soil samples. The trace concentration of toluene detected in the soil sample collected at 3 fbg from boring B-1 just downgradient of the fuel USTs is insignificant. Therefore, based on the analytical results, the COCs in soil primarily remain only in the area of the northeast dispenser (sample SS-1). The exact depth of this sample is unknown, but it reportedly was collected from the base of the excavation just above groundwater. As such, the COCs in soil are not expected to extend a significant depth below the water table; therefore, the vertical extent of hydrocarbons in soil in this area appears adequately defined. Based on the results of surrounding samples and borings, the lateral extent is limited and adequately defined. As this sample was collected in 1989, concentrations likely have decreased due to natural attenuation processes. Therefore, no further investigation is warranted.

5.4 PETROLEUM HYDROCARBONS IN GROUNDWATER

Groundwater has been monitored since 1990. Wells MW-7 and MW-8 are currently sampled semi-annually during the first and third quarters, and wells MW-1 through MW-6 are sampled annually during the first quarter. A copy of the most recent (second semi-annual 2011) groundwater monitoring report is presented in Appendix D.

As mentioned above, TPHg is only detected in MW-8; concentrations in this well have significantly decreased and only low concentrations remain. TPHg has not been detected in the remaining wells since at least 2007. Low concentrations (maximum of 5 µg/L) of MTBE remain in MW-1, MW-3, MW-7, and MW-8; the MTBE concentrations in these wells have also significantly decreased. MTBE is no longer detected in MW-6 and generally has not been detected in the remaining wells. A groundwater concentration map is presented on Figure 5.

A comparison of the historical maximum and most recent TPHg, benzene, and MTBE concentrations in the wells is presented in Table A below.

TABLE A
COMPARISON OF MAXIMUM AND MOST RECENT CONCENTRATIONS IN GROUNDWATER
(concentrations in µg/L)

Well ID	*TPHg*		*Benzene*		*MTBE*[a]	
	Max Conc.	*Most Recent Conc.*	*Max Conc.*	*Most Recent Conc.*	*Max Conc.*	*Most Recent Conc.*
MW-1	14,000,000 (1-8-93)	<50 (1-25-11)	12,000 (1-8-93)	<0.5 (1-25-11)	61 (1-12-04)	5 (1-25-11)
MW-2	4,600 (2-8-91)	<50 (1-25-11)	1,200 (10-5-92)	<0.5 (1-25-11)	2 (7-22-08)	<0.5 (1-25-11)
MW-3	250,000 (1-8-93)	<50 (1-25-11)	5,000 (1-8-93)	<0.5 (1-25-11)	43 (7-14-03)	4 (1-25-11)
MW-4	65 (5-8-91)	<50 (1-25-11)	17 (2-8-91)	<0.5 (1-25-11)	<0.5 (all)	<0.5 (1-25-11)
MW-5	880 (7-17-92)	<50 (1-25-11)	2.6 (7-17-92)	<0.5 (1-25-11)	<0.5 (all)	<0.5 (1-25-11)
MW-6	56 (5-8-91)	<50 (1-25-11)	4 (1-5-94)	<0.5 (1-25-11)	25 (1-12-04)	<0.5 (1-25-11)
MW-7	1,200 (3-8-94)	<50 (7-12-11)	440 (3-8-94)	<0.5 (7-12-11)	44 (7-27-04)	2 (7-12-11)
MW-8	28,000 (3-8-94)	120 (7-12-11)	3,000 (8-4-94)	<0.5 (7-12-11)	110 (1-12-04)	3 (7-12-11)

a Only results obtained using EPA Method 8260 reported

< Not detected at or above stated laboratory reporting limit

In January 2007, grab-groundwater samples were collected from borings B-1 through B-4 advanced adjacent to the fuel USTs and dispensers. As shown in Table 2, up to 4,500 µg/L TPHg and 5 µg/L MTBE were detected in B-1 and B-2. These results are consistent with historical monitoring data from nearby wells MW-1 and MW-3. However, the detected concentrations likely were greater than actual conditions due to the presence of sediment in the grab samples.

With the exception of TPHmo in MW-7 and TPHg in MW-8, all other constituents in groundwater do not exceed the most conservative environmental screening levels (ESLs[4]) established by the RWQCB in May 2008. Degradation trend analysis estimates that TPHg in MW-8 will reach the ESL (100 µg/L) by November 2013 (Appendix E). Although not a significant concern, an estimate was also performed for TPHmo in MW-7, and indicated it would reach the ESL (also 100 µg/L) by February 2057; note that

4. San Francisco Bay Region RWQCB, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, interim final-November 2007 (revised May 2008); Table A: Shallow Soil (<3 m bgs) – Water is a current or potential source of drinking water.

the data indicates a change in groundwater conditions in 2007, thus, the data after 2006 was used to represent the current trend. Given the municipal water supply, the lack of nearby receptors, the limited extent of impact, and the location of the site in the City of Oakland, these timeframes are reasonable.

5.4.1 EXTENT OF DISSOLVED HYDROCARBONS

The extent of dissolved petroleum hydrocarbons in groundwater is adequately defined in all directions except downgradient (northwest). However, historical monitoring data indicate that hydrocarbon migration downgradient of the site is likely not significant and does not pose a significant threat to human health or the environment given the lack of nearby groundwater receptors, and no additional assessment is warranted, as further discussed below.

The Domenico multi-dimensional advection-dispersion model for contaminant transport[5] was used to predict the extent of petroleum hydrocarbons in groundwater downgradient of the site. The Domenico model requires site-specific input for the groundwater seepage velocity and constituent degradation constant. For groundwater seepage velocity, a flow rate was calculated using the following equation[6]:

$$\mathbf{v_s = Ki/n_e}$$

Where;

v_s = seepage velocity
K = hydraulic conductivity (0.0283 feet per day[7] for clay with silt and sand)
i = gradient (0.01 – site specific)
n_e = average effective porosity (0.02[3])

Given these values, the calculated groundwater seepage velocity is approximately 0.014 feet per day.

As petroleum hydrocarbons migrate in groundwater, concentrations decline through natural mechanical and biological processes. At this site, recent concentrations in groundwater downgradient would not be expected to exceed maximum concentrations

5. Domenico, P.A., 1987, An analytical model for multidimensional transport of a decaying contaminant species: Journal of Hydrology, 91; pp. 49-58.
6. Kuo, J., 1999, Practical Design Calculations for Groundwater and Soil Remediation: CRC Press LLC, Boca Raton FL.
7. Fetter, C.W., 1994, Applied Hydrogeology: Macmillan College Publishing Company, Inc., New York.

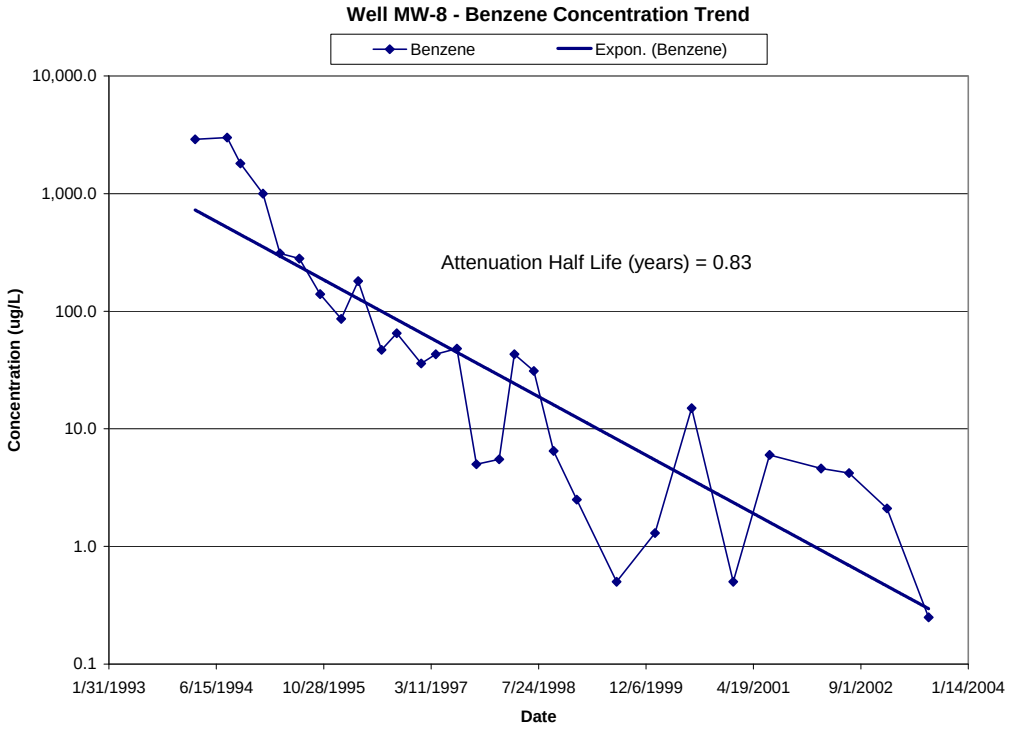
observed in MW-8, located at the downgradient boundary of the site. Since shallow groundwater in the site area is not a potential source of drinking water, the only significant potential concern to downgradient receptors is inhalation risk via vapor intrusion. Table B below presents a comparison of the historical maximum concentrations detected in MW-8 with the respective groundwater ESLs associated with vapor intrusion concerns at residential sites.

TABLE B
COMPARISON OF HISTORICAL MAXIMUM GROUNDWATER CONCENTRATIONS IN MW-8 TO ENVIRONMENTAL SCREENING LEVELS

Constituent of Concern	*Historical Maximum Concentration (µg/L)*	*Residential Groundwater ESL for Potential Vapor Intrusion Concerns*[8] *(µg/L)*
TPHg	28,000	(Use Soil Gas)
Benzene	3,000	540
Toluene	1,300	380,000
Ethylbenzene	1,200	170,000
Xylenes	6,800	160,000
MTBE	110	24,000

As shown above, the only constituent that historically exceeded the respective ESL is benzene; all other constituents were at least two orders of magnitude below the ESLs and thus appear to pose no significant inhalation risk to downgradient receptors. TPHg does not have a corresponding ESL and requires direct screening of soil gas. TPHg in soil vapor is discussed below in Section 5.5. Although benzene is no longer detected in MW-8, it was generally detected from the start of monitoring in 1994 through 2003. The attenuation rate of benzene in MW-8 (using the historical maximum of 3,000 µg/L from 1994) is shown below.

8. San Francisco Bay Region RWQCB, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, interim final-November 2007 (revised May 2008); Table E-1: Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns.



The calculated rate of benzene degradation in MW-8 gives a first-order attenuation half-life of 0.83 years (303 days). Constituent half-life in days is equivalent to the degradation constant times 0.6931, which results in a benzene degradation constant of 0.00229 per day. The Domenico calculation predicting the extent of benzene migration downgradient of MW-8 is presented in Appendix F. According to the model, the benzene concentration in groundwater 15 feet downgradient of MW-8 is 268 µg/L, which is below the ESL of 540 µg/L for potential vapor intrusion concerns. Based on this information and the building configuration and use on adjacent properties, there does not appear to be a significant vapor intrusion risk as no habitable structures are present within this distance downgradient of the site. The Domenico model also predicts that benzene in groundwater will attenuate within 55 feet of MW-8. Based on the modeling results, no further downgradient assessment is warranted.

5.5 PETROLEUM HYDROCARBONS IN SOIL VAPOR

In September 2008, soil vapor samples were collected from wells VP-1 through VP-5 to evaluate potential vapor intrusion concerns for site workers and offsite receptors. As seen in Table 3, TPHg was detected in all the wells at concentrations ranging from 550 to 330,000 micrograms per cubic meter (µg/m^3). The highest concentration was detected in VP-2 located on the west side of the site. TPHd was detected in VP-2 (6,900 µg/m^3) and VP-4 (920 µg/m^3), but the concentrations did not exceed the

residential (most conservative) ESL of 10,000 µg/m^3. Benzene, considered the primary risk driver for vapor intrusion as it is a known human carcinogen, was not detected in any of the wells.

The detected TPHg concentrations in VP-2 (330,000 µg/m^3), VP-4 (38,000 µg/m^3), and VP-5 (46,000 µg/m^3) exceeded both the commercial/industrial (29,000 µg/m^3) and residential (10,000 µg/m^3) ESLs associated with vapor intrusion concerns. As stated by the RWQCB, the ESLs are considered to be conservative and are based on hydrocarbon composition typical of freshly dispensed fuel that has not been degraded and still has a significant aromatic (carcinogenic) component. The TPHg results reported by the laboratory incorporate many different compounds. Therefore, to further evaluate the components that comprise the detected TPHg in VP-2, VP-4, and VP-5, the laboratory reported the top 20 tentatively identified compounds (TICs) in each sample and also provided a breakdown of the percentage of aliphatic and aromatic compounds. A copy of the laboratory analytical report including the TIC results is presented in Appendix G. Based on the TIC results, the TPHg range compounds in soil vapor consisted of 92 to 100 percent aliphatic hydrocarbons, which are non-carcinogenic. The only identified aromatic compound (tris[trimethylsilyl]este-arsenous-acid [$C_9H_{27}AsO_3Si_{13}$]) was in the sample from VP-5 and is an herbicide compound, and thus not related to the case. None of the identified aliphatic compounds have associated ESLs. Based on this information, it does not appear that TPHg range petroleum hydrocarbons in soil vapor beneath and downgradient of the site pose a significant vapor intrusion risk.

6.0 LOW-RISK GROUNDWATER CRITERIA

The site appears to meet the RWQCB criteria for classification as a low-risk groundwater case. As described in the January 5, 1996 memorandum, a low-risk groundwater case has the following general characteristics:

- The leak has been stopped and ongoing sources, including LNAPL, have been removed or remediated.
- The site has been adequately characterized.
- The dissolved hydrocarbon plume is stable, decreasing, and not migrating.
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.
- The site presents no significant risk to human health or the environment.

Each low-risk groundwater case criteria, as it relates to the site, is discussed below.

6.1 THE LEAK HAS BEEN STOPPED AND ONGOING SOURCES, INCLUDING LNAPL, HAVE BEEN REMOVED OR REMEDIATED

All original potential sources of the petroleum hydrocarbon release(s) (former USTs, dispensers, and product piping) were removed. The site is currently an active station with three USTs. Remedial excavation was performed to remove hydrocarbon mass. Based on the decreasing concentrations in groundwater, any residual impacted soil is not acting as a continuing source of hydrocarbons to groundwater that would reverse these trends.

In October 1992, LNAPL (approximate thickness of 0.24 feet) was observed in MW-3. Weekly bailing was subsequently performed in November and December 1992 and approximately 270 milliliters of LNAPL were removed. The bailing was discontinued when only sheen was observed, and LNAPL has not been observed in MW-3 since third quarter 1993 (0.01 foot). Based on this information, the leak has been stopped and ongoing sources have been removed.

6.2 THE SITE HAS BEEN ADEQUATELY CHARACTERIZED

Soil sample analytical results indicate that residual impact is limited and the lateral and vertical extents have been adequately defined. Groundwater monitoring has been performed since 1990. Declining hydrocarbon concentration trends in groundwater indicate that the plume is shrinking, and based on degradation rates does not pose a threat to onsite or downgradient receptors and is adequately characterized. Concentrations are expected to continue to decrease over time due to natural attenuation. The soil vapor analytical results indicate that the constituents detected do not appear to pose a significant vapor intrusion risk. Based on this information, the extent of impact has been defined to the degree necessary to demonstrate that the site does not present a significant threat to human health or the environment.

6.3 THE DISSOLVED HYDROCARBON PLUME IS STABLE, DECREASING, AND NOT MIGRATING

Petroleum hydrocarbon concentrations in groundwater have been steadily decreasing since the start of monitoring, which is indicative of a shrinking plume. Although some migration of dissolved hydrocarbons likely occurred historically, gasoline plumes do not tend to detach and the documented declining trends indicate that the plume is shrinking. Natural attenuation is expected to continue to reduce the remaining

concentrations to background levels. The remaining TPHmo and TPHg concentrations in groundwater are estimated to reach the ESLs by 2085 and 2013, respectively.

6.4 NO WATER WELLS, DEEPER DRINKING WATER AQUIFERS, SURFACE WATER, OR OTHER SENSITIVE RECEPTORS ARE LIKELY TO BE IMPACTED

The recent well survey did not identify any water supply wells within 2,000 feet of the site in the downgradient direction. An industrial well was previously identified approximately 1,400 feet northwest of the site; if this well remains, based on this distance it is not likely to be impacted by dissolved hydrocarbons from the site. The nearest surface water body is located upgradient and is not at risk. With the exception of the downgradient residential properties, no sensitive receptors were identified within ½-mile downgradient. With regards to the residential properties, the water supply is municipal, and based on the modeling results the concentrations of fuel constituents downgradient will not exceed ESLs associated with potential vapor intrusion concerns. Therefore, there does not appear to be a significant risk to these receptors.

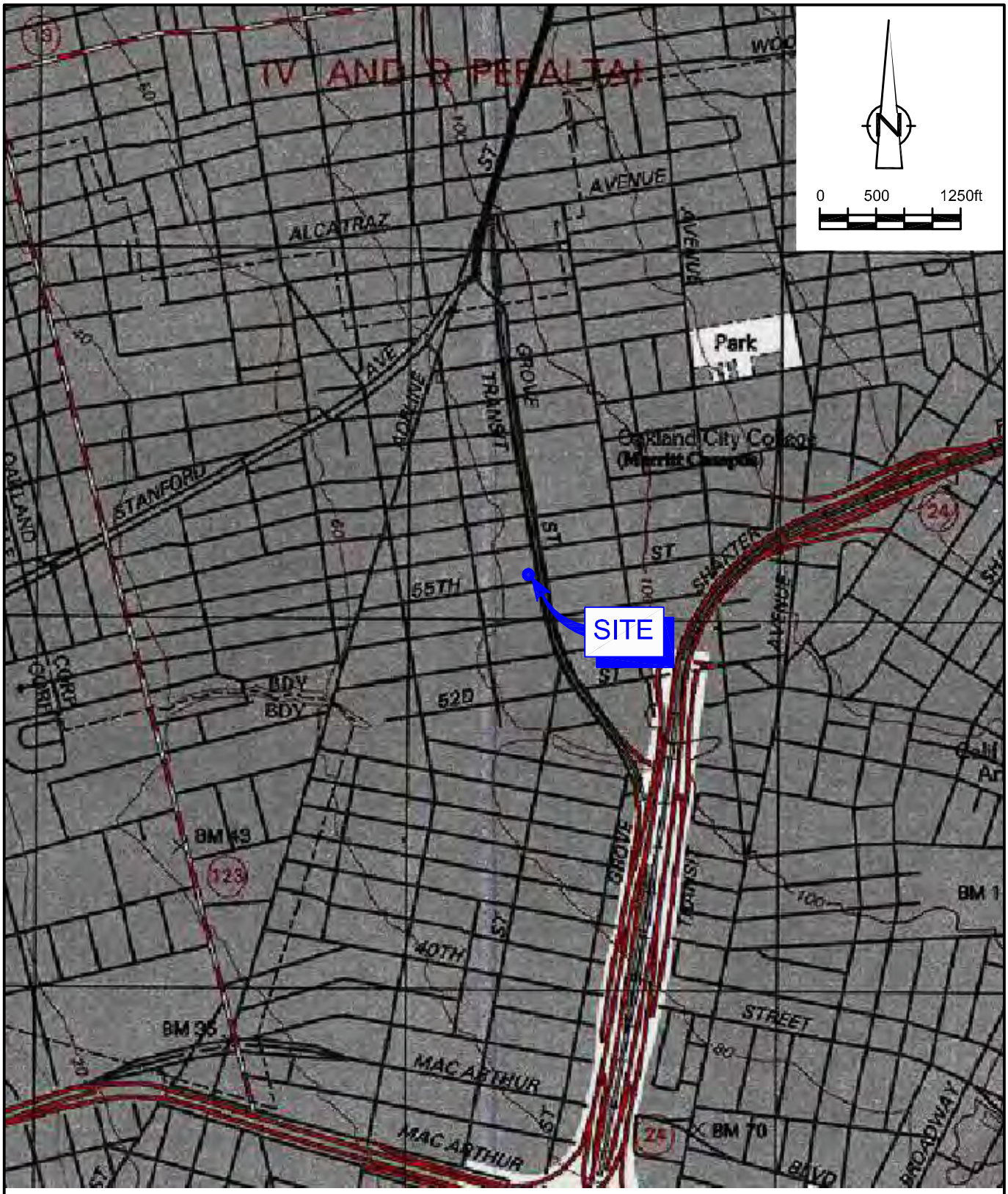
6.5 THE SITE PRESENTS NO SIGNIFICANT RISK TO HUMAN HEALTH OR THE ENVIRONMENT

Little to no residual petroleum hydrocarbon impact was identified in remaining soil beneath the site. Additionally, as the site is generally capped with the existing development, potential exposure to any residual impacted soil by the general public is precluded. As the site is an active gas station, the remaining hydrocarbons in groundwater and soil vapor do not appear to pose a significant risk to site workers. The TIC analysis indicated no significant vapor intrusion risk. The modeling results indicate no significant risk to downgradient residential receptors. Based on this information, the site does not pose a significant risk to human health or the environment under the current and expected continued future land use scenario.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the site conditions and analytical data, the site satisfies the RWQCB criteria for classification as a low-risk groundwater case. No further assessment appears warranted. Remaining petroleum hydrocarbons in soil, groundwater, and soil vapor do not appear to pose a significant risk to human health or the environment under the current land use scenario. The site is expected to remain a gas station for the foreseeable future. Therefore, on behalf of Chevron, CRA respectfully requests the site be considered for low-risk case closure.

FIGURES



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California

611960-499(004)GN-WA001 JUL 15/2009

56th STREET

0 20 40ft

RESIDENTIAL

FORMER USED OIL TANK

VP-3 MW-7 PLANTER MW-4

VP-4

WN-10.5

WW-10.5 B-5 WE-11

WS-10.5 H1/CL-7.5

SITE

MW-8

VP-5

H2-8

FORMER HOISTS

VP-2

DISP 1/2 (3.5') A

F

DISP 5/6 (3.5')

B/SS-1

H3-6

D

EXISTING STATION BUILDING

VP-1

C B-4

E

DISP 3/4 (3.5')

PLANTER

MARTIN LUTHER KING JR. WAY

MW-3 B-1 DISPENSER ISLANDS DISP 7/8 (3.5')

USTS MW-2

MW-1 B-2 B-3

OVERHEAD ELECTRICAL AND TELEPHONE LINES

55th STREET

MW-6 MW-5

APARTMENT BUILDING

USTS

DISPENSER ISLANDS

76 STATION BUILDING

LEGEND

VP-1 ▲ VAPOR WELL LOCATION

MW-1 ● MONITORING WELL LOCATION

B-1 ⊡ HAND AUGER BORING LOCATION

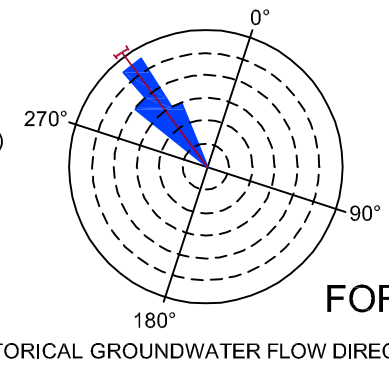
A ⊠ SOIL SAMPLE LOCATION

E ELECTRICAL LINE (OVERHEAD WHERE LABELED)

STM STORM DRAIN

W WATER LINE

APPROXIMATE EXTENT OF EXCAVATION

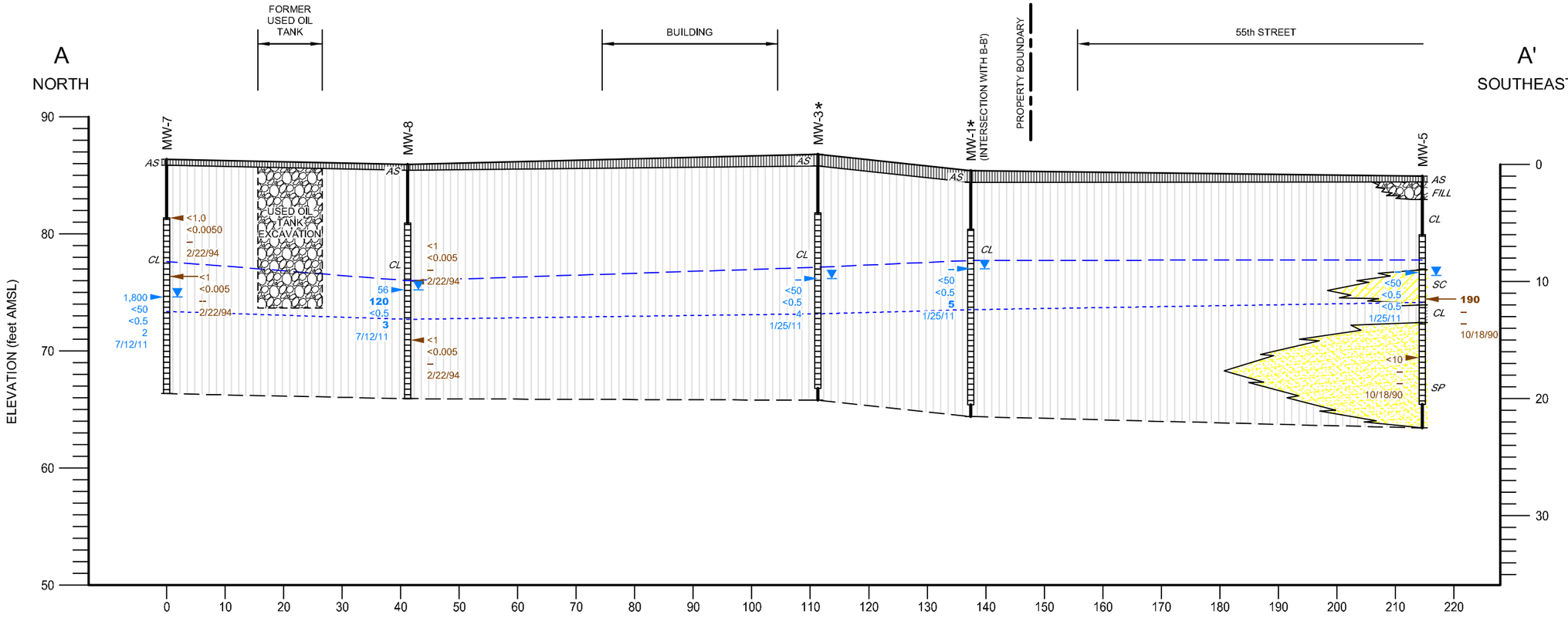


HISTORICAL GROUNDWATER FLOW DIRECTION

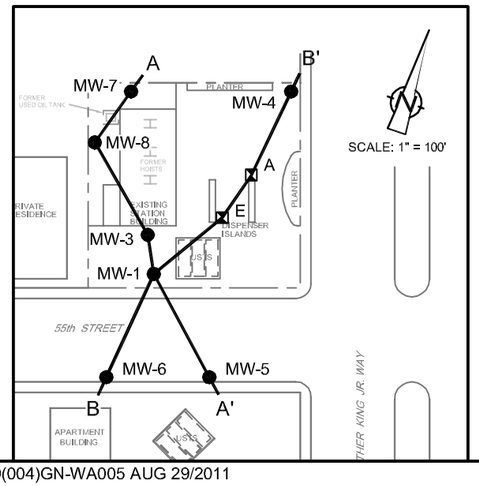
figure 2

SITE PLAN
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California

611960-499(004)GN-WA006 AUG 26/2011



SCALE: HORZ. 1" = 20'
VERT. 1" = 10'



LEGEND

MW-1 — WELL DESIGNATION
GROUND SURFACE
OBSERVATION WELL INSTALLATION
STRATIGRAPHIC BOUNDARY
CL — TYPICAL SOIL CLASSIFICATION
SCREENED INTERVAL
BOTTOM OF BORING
APPROXIMATE SOIL SAMPLE LOCATION

TPHg
BENZENE
MTBE
DATE
HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)

APPROXIMATE GROUNDWATER SAMPLE LOCATION

TPHmo
TPHg
BENZENE
MTBE
DATE
HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)

GROUNDWATER DEPTH

AS - ASPHALT/AGGREGATE BASE

CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS

SC - CLAYEY SANDS, SAND-CLAY MIXTURES

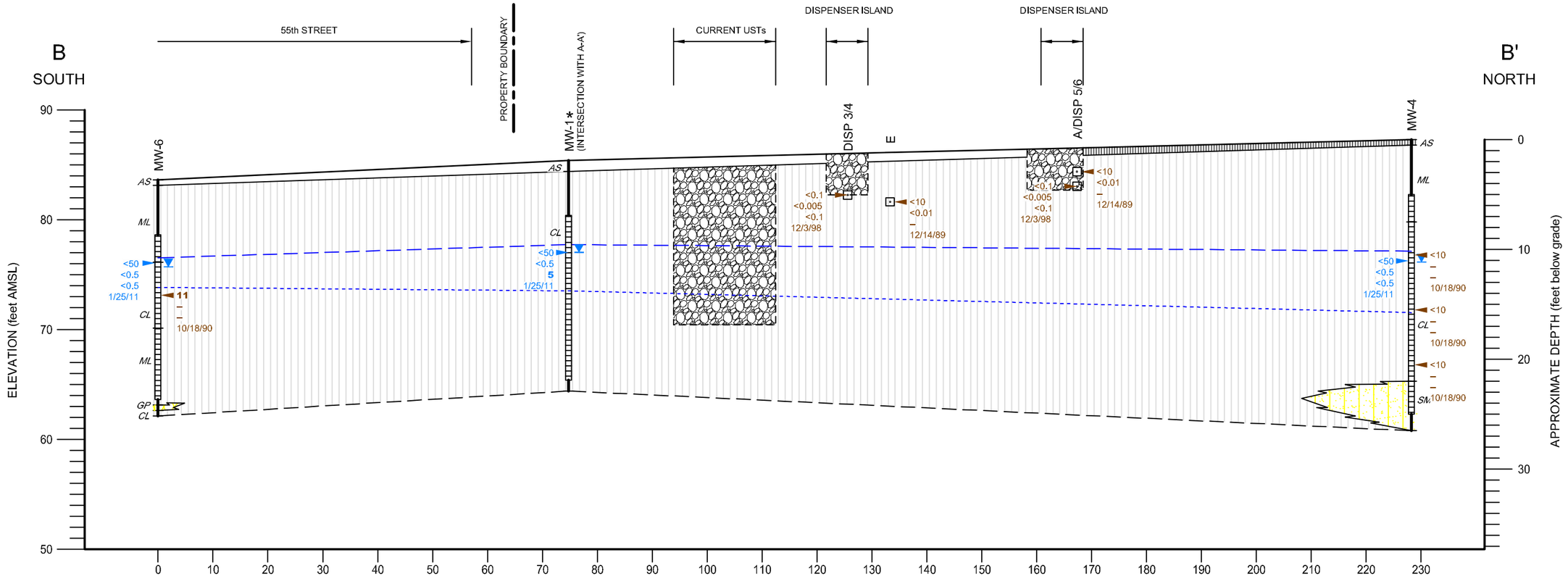
SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES

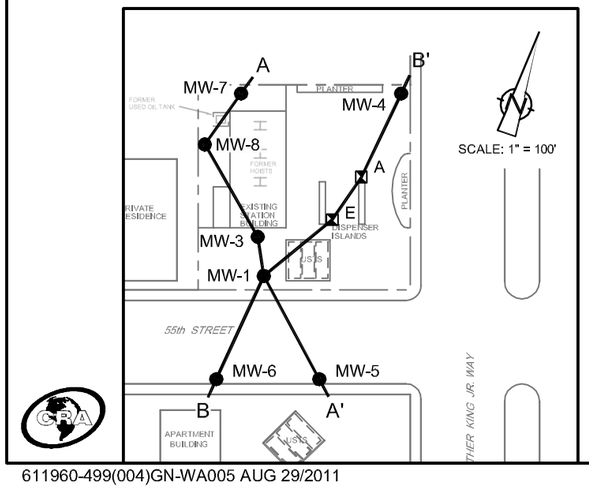
FILL

LOWEST GROUNDWATER ELEVATION
HIGHEST GROUNDWATER ELEVATION
-- NOT ANALYZED
< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
* SCREEN INTERVAL BASED ON TYPICAL WELL PROFILE SUPPLIED BY GETTLER-RYAN INC; ACTUAL WELL CONSTRUCTION DETAILS NOT AVAILABLE

figure 3

GEOLOGIC CROSS SECTION A-A'
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California





LEGEND

- MW-1 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- SOIL SAMPLE LOCATION

- *AS* - ASPHALT/AGGREGATE BASE
- *CL* - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- *ML* - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- *GP* - POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- *SM* - SILTY SANDS, SAND-SILT MIXTURES
- *FILL*
- GROUNDWATER DEPTH
- LOWEST GROUNDWATER ELEVATION
- HIGHEST GROUNDWATER ELEVATION
- -- NOT ANALYZED
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- * SCREEN INTERVAL BASED ON TYPICAL WELL PROFILE SUPPLIED BY GETTLER-RYAN INC; ACTUAL WELL CONSTRUCTION DETAILS NOT AVAILABLE

figure 4

GEOLOGIC CROSS SECTION B-B'
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California

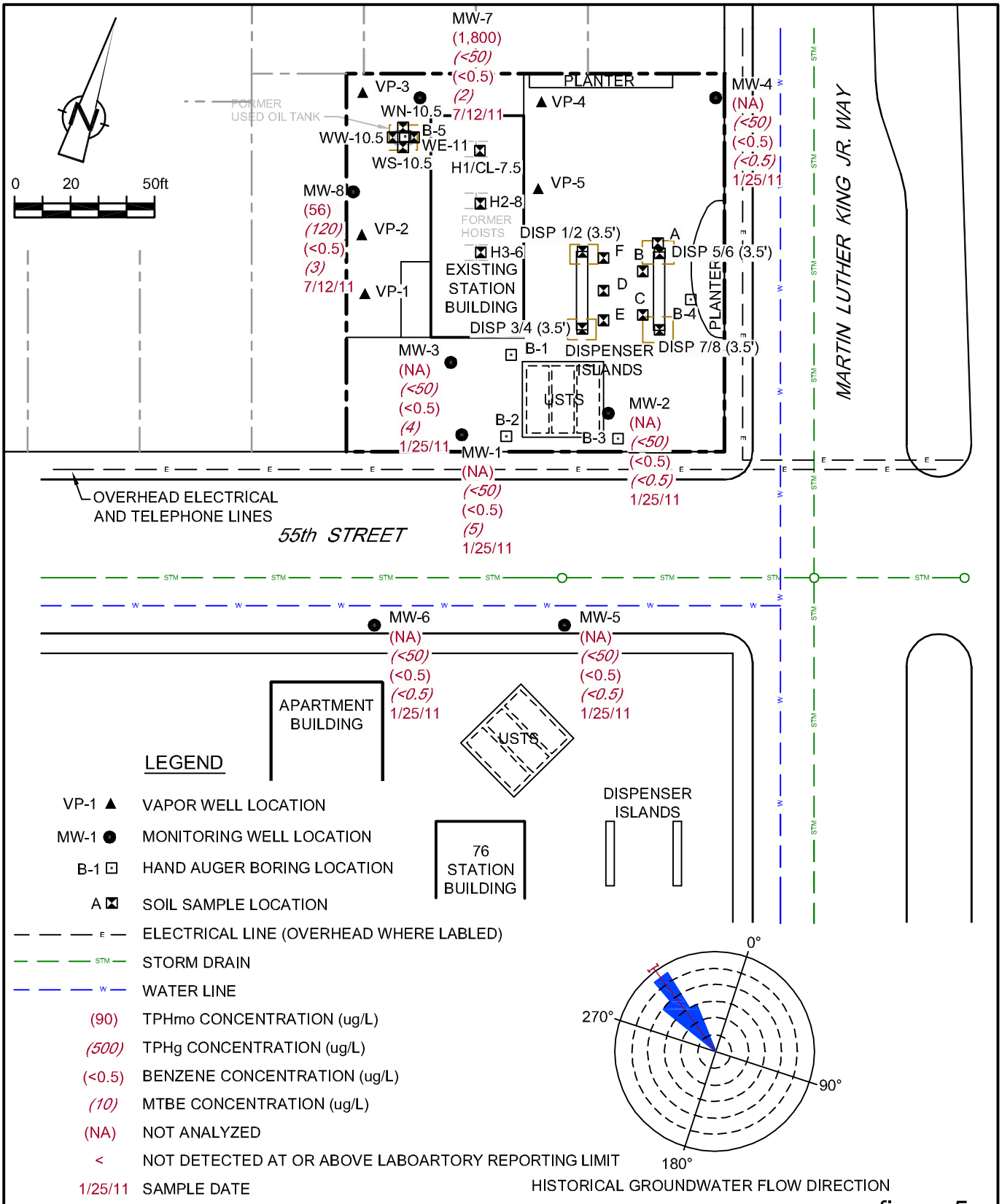


figure 5

GROUNDWATER CONCENTRATION MAP - 2011
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
Oakland, California

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA

Sample/Boring ID	*Sample Depth (fbg)*	*Date Sampled*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TRPH*	*TPHhf*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*HVOCs*	*Semi-VOCs*	*Cadmium*	*Chromium*	*Lead*	*Nickel*	*Zinc*
			Concentrations reported in milligrams per kilogram (mg/kg)																					
Piping Upgrade Sampling																								
A	2	12/14/89	--	<10	<0.01	<0.01	<0.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	3	12/14/89	--	**1,700**	**0.14**	**9.7**	**14**	**180**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	3.5	12/14/89	--	<10	<0.01	<0.01	<0.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D	4.5	12/14/89	--	<10	<0.01	<0.01	<0.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E	4.5	12/14/89	--	<10	<0.01	<0.01	<0.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
F	3.5	12/14/89	--	<10	<0.01	<0.01	<0.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-1	Unknown	12/15/89	--	**670**	**0.7**	**1.2**	**0.96**	**1.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monitoring Well Borings																								
MW-4	10.5	10/18/90	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15.5	10/18/90	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20.5	10/18/90	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10.5	10/18/90	--	**190**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15.5	10/18/90	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10.5	10/18/90	--	**11**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	5	2/22/94	--	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	2/22/94	--	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	10	2/22/94	--	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	2/22/94	--	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Used-Oil Tank Removal																								
WE-11	11.0	4/17/95	**75**	<1.0	<0.005	<0.005	<0.005	<0.005	--	**770**	--	--	--	--	--	--	--	ND	ND	**0.6**	**45**	<5.0	**55**	**72**
WW-10.5	10.5	4/17/95	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	**220**	--	--	--	--	--	--	--	ND	ND	**0.53**	**46**	<5.0	**61**	**68**
WN-10.5	10.5	4/17/95	--	--	--	--	--	--	--	**2,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WS-10.5	10.5	4/17/95	--	--	--	--	--	--	--	**76**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hoist/Clarifier Removal																								
H/CLR-7.5	7.5	11/5/98	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010	<0.025	<33.3	<10	--	--	--	--	--	--	ND	ND	<1.0	**32.1**	<7.5	**40.8**	**44**
H2-8	8	11/5/98	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--
H3-8	8	11/5/98	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dispenser Upgrade Sampling																								
Disp 1/2 (3.5')	3.5	12/3/98	--	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Disp 3/4 (3.5')	3.5	12/3/98	--	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Disp 5/6 (3.5')	3.5	12/3/98	--	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Disp 7/8 (3.5')	3.5	12/3/98	--	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exploratory Borings																								
B-1	3	1/4/07	--	<1.0	<0.0005	**0.001**	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	6	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	9	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.0006**	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA

Sample/Boring ID	*Sample Depth (fbg)*	*Date Sampled*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TRPH*	*TPHhf*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*HVOCs*	*Semi-VOCs*	*Cadmium*	*Chromium*	*Lead*	*Nickel*	*Zinc*
			Concentrations reported in milligrams per kilogram (mg/kg)																					
B-2	3	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	6	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	9	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
B-3	3	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	6	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	9	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
B-4	3	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	6	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	8	1/3/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
B-5	3	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
	5	1/4/07	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
Soil Vapor Well Borings																								
VP-1	3	8/26/08	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
VP-2	3	8/26/08	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
VP-3	3	8/26/08	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	<0.021	<0.001	<0.001	--	--	--	--	--	--	--
VP-4	3	8/26/08	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	<0.020	<0.001	<0.001	--	--	--	--	--	--	--
VP-5	3	8/26/08	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	<0.020	<0.001	<0.001	--	--	--	--	--	--	--

Abbreviations/Notes:

fbg = feet below grade

mg/kg = miligrams per kilogram
TPHd and TPHg = Total petroleum hydrocarbons as diesel and gasoline, respectively
MTBE = Methyl tertiary butyl ether
TRPH = Total recoverable petroleum hydrocarbons
TPHhf = Total petroleum hydrocabons as hydraulic fluid
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

HVOCs = Halogenated volatile organic compounds

Semi-VOCs = Semi-volatile organic compounds

<x = Indicates constituent not detected at or above the stated laboratory reporting limit

-- = Not analyzed

ND = Not detected; reporting limits vary

Note: shaded samples were collected from soil that was later excavated

TABLE 2

GRAB-GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND , CALIFORNIA

Boring ID	*Date Sampled*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*
		Concentrations reported in micrograms per liter (µg/L)											
B-1	1/4/07	**2,600**	<0.5	<0.5	**0.9**	<0.5	**2**	<0.5	<0.5	<0.5	<2	<0.5	<0.5
B-2	1/4/07	**4,500**	<0.5	<0.5	<0.5	<0.5	**5**	<0.5	<0.5	<0.5	<2	<0.5	<0.5
B-3	1/3/07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
B-4	1/3/07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5

Abbreviations/Notes:
TPHg = Total petroleum hydrocarbons as gasoline
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
EDB= 1,2-dibromoethane
<x = Not detected at or above stated laboratory reporting limits

TABLE 3

SOIL VAPOR SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA

Sample ID	*Sample Date*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TBA*	*1,2-DCA*	*EDB*	*Ethanol*	*Iso-octane*	*Helium*	*Oxygen*	*Carbon dioxide*
		← Concentrations reported in micrograms per cubic meter (µg/m^3) →												← Reported in percent →		
VP-1	9/11/08	<170	550	<7.5	<8.9	<10	<10	<8.5	<28	<9.5	<18	<18	<11	<0.24	14	6.8
VP-2	9/11/08	6,900	**330,000**	<52	<62	<71	<71	<59	<200	<66	<130	<120	17,000	<0.12	16	8.7
VP-3	9/11/08	<180	540	<3.9	<4.6	<5.4	<5.4	<4.4	<15	<5.0	<9.5	<9.3	<5.8	<0.12	17	4.7
VP-4	9/11/08	920	**38,000**	<18	<21	<24	<24	<20	<67	<22	<42	<41	5,400	<0.11	11	10
VP-5	9/11/08	<160	**46,000**	<7.1	<8.4	<9.6	<9.6	<8.0	<27	<9.0	<17	<17	<10	<0.22	10	14
Commercial ESL		29,000	29,000	280	180,000	3,300	58,000	31,000	NE	310	14	NE	NE			
Residential ESL		10,000	10,000	84	63,000	980	21,000	9,400	NE	94	4.1	NE	NE			

Abbreviations/Notes:

Total petroleum hydrocarbons as diesel (TPHd) by EPA Method TO-17.

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3.

Benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA Method TO-15.

Methyl tertiary butyl ether (MTBE) by EPA Method TO-15.

Tertiary butyl alcohol (TBA) by EPA Method TO-15.

1,2-Dichloroethane (1,2-DCA) by EPA Method TO-15.

1,2 Dibromoethane (EDB) by EPA Method TO-15.

Ethanol and iso-octane (2,2,4-Trimethylpentane) by EPA Method TO-15

Oxygen, carbon dioxide and helium by modified ASTM D-1946.

<x = Not detected at or above stated laboratory reporting limit.

ESL = Shallow soil gas environmental screening level associated with vapor intrusion concerns, RWQCB-May 2008 (Table E)

NE = Not established

Bold Indicates concentration exceeds commercial and/or residential ESL

TABLE 4

WELL CONSTRUCTION DETAILS
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA

Well ID	*Drilling Date*	*Well Depth (fbg)*	*Well Diameter (inches)*	*Well Screen Top (fbg)*	*Well Screen Bottom (fbg)*	*Well Screen Length (fbg)*	*Top of Casing Elevation (ft. msl)*
MW-1*	12/22/83	20	2	5	20	15	85.41[1]
MW-2*	12/22/83	20	2	5	20	15	86.04[1]
MW-3*	12/22/83	20	2	5	20	15	86.80[1]
MW-4	10/18/90	26.5	2	5	25	20	87.29[1]
MW-5	10/18/90	21.5	2	5	20	15	84.93[1]
MW-6	10/18/90	21.5	2	5	20	15	83.63[1]
MW-7	2/22/94	20	2	5	20	15	86.36[1]
MW-8	2/22/94	20	2	5	20	15	85.95[1]

Abbreviations:

fbg = feet below grade

ft. msl = feet above mean sea level

* Assumed well screen intervals based on typical well profile; actual well construction diagrams do not exist

[1] Wells re-surveyed in October 2009

APPENDIX A

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION
FORMER CHEVRON SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. BLVD, OAKLAND, CALIFORNIA

December 1983 Well Installations
Gettler-Ryan Inc. (G-R) installed onsite monitoring wells MW-1 through MW-3. No soil samples were collected for laboratory analysis from the well borings. The work was documented in a letter from G-R to Chevron dated January 5, 1984.

December 1989 Product Piping Upgrade Sampling
Geotest collected soil samples A through F at depths ranging from 2 to 4.5 feet below grade (fbg) from the piping trenches during upgrade work. Limited over-excavation (approximately 25 cubic yards) was performed in the area of sample B collected at 3 fbg adjacent to the northeast dispenser, and additional soil sample SS-1 collected from the bottom of the excavation. The sample depth is unknown; however, it reportedly was collected just above groundwater. A report documenting the details of this work is not available; the analytical data was provided to ACEH in a letter from Chevron dated July 30, 1993.

March 1990 Well Redevelopment and Sampling
Geraghty & Miller, Inc. (G&M) redeveloped and sampled wells MW-1 through MW-3. Details were presented in G&M's April 2, 1990 *Results of Groundwater Sampling Activities* letter report.

October 1990 Well Installations
G&M installed onsite monitoring well MW-4 and offsite wells MW-5 and MW-6 and collected soil samples from the well borings at depths ranging from 10.5 to 20.5 fbg. Details were presented in G&M's December 15, 1990 *Site Assessment Report*.

1992 Light Non-Aqueous Phase Liquid (LNAPL) Removal
During the October 1992 monitoring event, LNAPL (approximately 0.24 feet) was observed in MW-3. The tanks and product lines reportedly tested tight in September 1992 and a 90-day inventory audit did not indicate any loss of product. Weekly LNAPL bailing was initiated in November 1992 by Groundwater Technology, Inc. (GTI). Approximately 270 milliliters of LNAPL were removed from MW-3 in November and December 1992. The bailing was discontinued when only a sheen was observed in the well.

February 1994 Well Installations
GTI installed wells MW-7 and MW-8 near the used-oil underground storage tank (UST). Four soil samples were collected from the well borings at depths ranging from 5 to 15 fbg. Details were presented in GTI's April 8, 1994 *Additional Soil and Groundwater Assessment Report*.

April 1995 Used-Oil Tank Removal and Over-Excavation
Touchstone Developments (TD) observed the removal of a 1,000-gallon used-oil UST. Four soil samples were collected from the base of the excavation at depths of 10.5 or 11 fbg. The excavation was subsequently deepened to 12.5 fbg (groundwater encountered at approximately 12 fbg). Approximately 80 cubic yards of impacted soil was removed and disposed offsite. Details were presented in TD's June 12, 1995 *Used Oil Tank Removal Report*.

November 1998 Hydraulic Hoist and Clarifier Removal
TD observed the removal of three hydraulic hoists and an oil-water clarifier. Soil samples were collected beneath each of the hoists at 7.5 or 8 fbg. Details were presented in TD's January 19, 1999 *Hoist/Clarifier Removal and Sampling Report*.

December 1998 Dispenser Upgrade Soil Sampling
Geo-Logic collected a soil sample at approximately 3.5 fbg from excavations beneath each of the four dispensers during upgrade work. This work was documented in Geo-Logic's December 7, 1998 *Report of Soil Sampling Below Fuel Dispensers*.

January 2007 Subsurface Investigation
Cambria Environmental Technology, Inc. (Cambria [now CRA]) advanced exploratory borings B-1 through B-5 and collected soil samples at various depths from the borings. Grab-groundwater samples were also collected from borings B-1 through B-4. Details were presented in Cambria's February 28, 2007 *Subsurface Investigation Report*.

August 2008 Soil Vapor Survey
CRA installed and sampled shallow soil vapor wells VP-1 through VP-5. Soil samples were collected from each well boring at approximately 3 fbg. Details were presented in CRA's November 21, 2008 *Soil Vapor Assessment Report*.

APPENDIX B

HISTORICAL BORING LOGS

Gettler - Ryan Inc. GENERAL CONTRACTORS

COMPANY: Chevron U.S.A. #1583 JOB NO: OR - 5111

LOCATION: 5509 Grove St. DATE: 12-22-83

CITY: Oakland WELL #: 1

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 Ft.		
3"		A.C. Paving
8"		Baserock
2'		Dark Brown Clay & Fills
8'		Brown Clay - Damp
9'		Dark Brown Clay - Damp
12'		Olive Green Silty Clay - Moist
17'		Brown Silty Clay - Wet
21'		Dark Gray Clay - Bay Mud - Wet

FOREMAN: David Byron SHEET: 1 OF 1

WELL BORING LOG

Gettler - Ryan Inc. GENERAL CONTRACTORS

COMPANY: CHEVRON U.S.A. #1583 JOB NO: OR - 5111

LOCATION: 5509 GROVE ST. DATE: 12-22-83

CITY: OAKLAND WELL #: 2

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
3"		A.C. PAVING
1'		BASEROCK
2½'		DARK BROWN CLAY & FILLS
7'		BROWN CLAY - DAMP
8'		DARK BROWN CLAY - DAMP
13'		OLIVE GREEN SILTY CLAY - MOIST
16'		BROWN SILTY CLAY - WET
21'		DARK GRAY CLAY - BAY MUD - WET

FOREMAN: DAVID BYRON SHEET: 1 OF 1

Gettler - Ryan Inc. — GENERAL CONTRACTORS

WELL BORING LOG

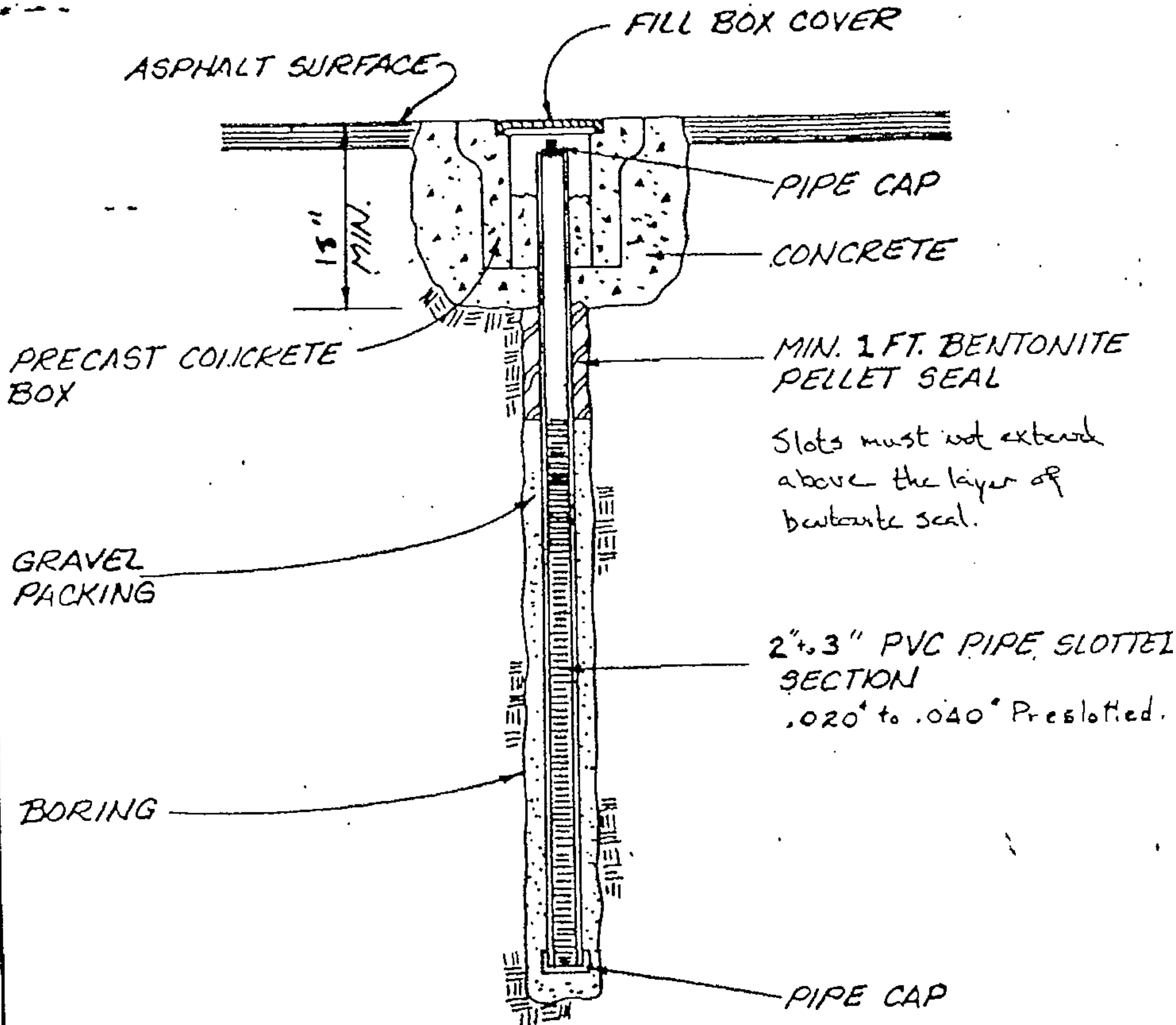
COMPANY: CHEVRON U.S.A #1583 JOB NO: OR - 5111

LOCATION: 5509 GROVE ST. DATE: 12-22-83

CITY: OAKLAND WELL #: 3

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
3"		A.C. PAVING
8"		BASEROCK
2'		DARK BROWN CLAY & FILLS
10'		BROWN CLAY - DAMP
11'		DARK BROWN CLAY - STIFF
14'		OLIVE GREEN SILTY CLAY - MOIST
18'		BROWN SILTY CLAY - WET
21'		DARK GRAY CLAY - BAY MUD - WET

FOREMAN: DAVID BYRONS SHEET: 1 OF 1



DEPTH OF HOLE: 20'

TOTAL NUMBER OF HOLES REQUIRED: 3

REV	◇					◇			

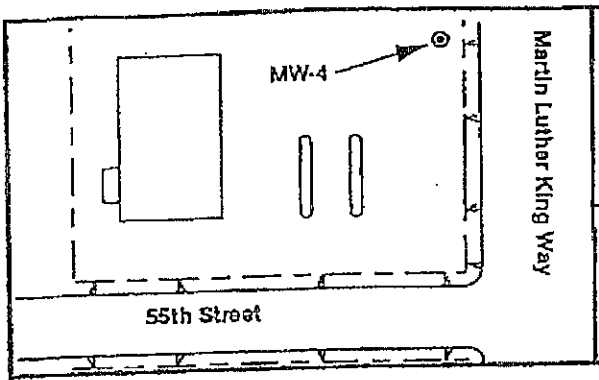
PLANS & SPECIFICATIONS
TYPICAL WELL PROFILE

2/1/83

DR RB CH.
DR APP.
ENGR.
OPR'G. DEPT. APPRO
ENG'R. DEPT.

SCALE NONE DATE

W.O.
S.O.



LOG OF BORING MW-4

Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

Project No.: RC2603
Logged By:Jim Wilmerding
Drilling Co.: HEW
Driller: Hanibal

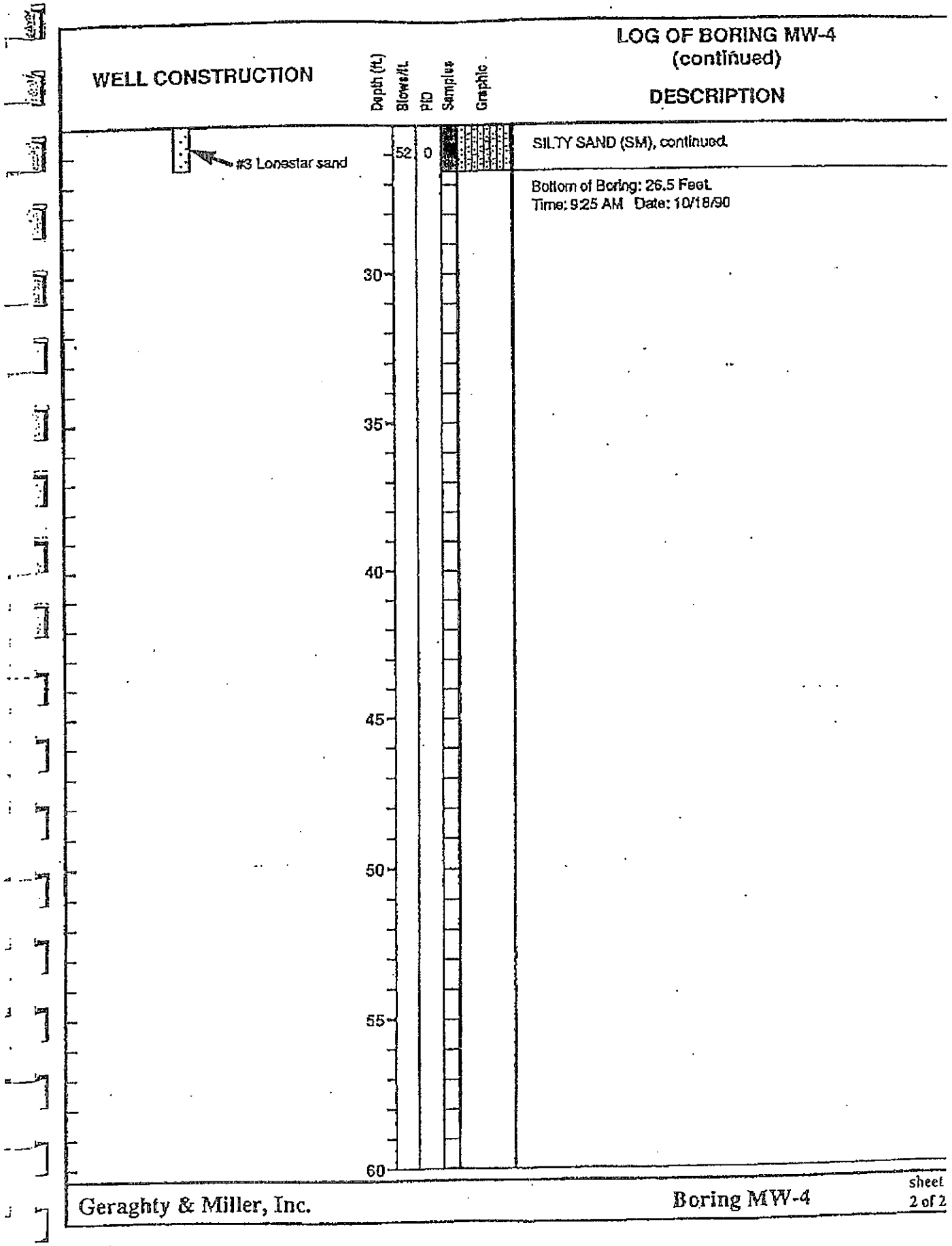
Date Drilled:October 18,1990
Drilling Method: 8" Hollow Stem Auger.
Sampling Method: 2" Split spoon
Inclination: Vertical

WELL CONSTRUCTION

8" Boring
Water-tight Utility Box
Locking water-tight cap
Concrete
Neat Cement
2" Sch 40 PVC Blank casing
Bentonite
3 Lonestar sand
10/31/90
10/18/90
2" Sch 40 PVC 0.020" slotted casing

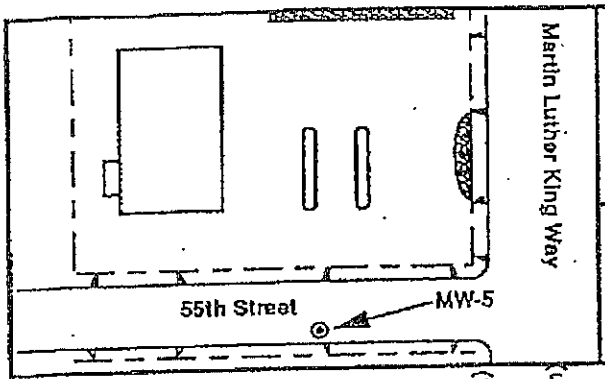
Depth (ft.)	Blows/ft.	Exp (ppm)	Samples	Graphic	DESCRIPTION
					Surface Elevation: 84.50'
					Casing Elevation:84.25'
0					Asphaltic Concrete
					GRAVELLY SILT (ML), dark yellowish brown (10YR 3/4); sand backfill; gravel up to 30mm dia.; 10-20% sand; 10-20% coarse gravel; dry.
5	8	0			CLAYEY SILT (ML),dark grayish brown (2.5Y4/2); 10-20% clay; firm; moist.
10	8	0			SILTY CLAY (CL), olive brown (2.5Y 4/4) mottled gray (7.5Y 5/1); 10 to 30% silt; firm; moist.
15	3	25			@ 15 feet: gray (7.5Y 5/1) mottled strong brown (7.5YR 4/6); 10 to 20% silt; trace fine sand; ferro-magnesium staining; firm; wet.
20	5	10			@ 20 feet: dark greenish gray (5GY 4/1); 5 to 15% silt; roots; charcoal (less than 5mm dia.); calciferous nodules (less than 5mm dia.); firm; moist to wet.
25					SILTY SAND (SM), dark greenish gray (5GY 4/1) to (BG 4/1); fine grain; trace to 10% fine to coarse gravel (10 to 30 mm; trace to 10% clay; very dense; wet

LOG OF BORING MW-4 (continued)



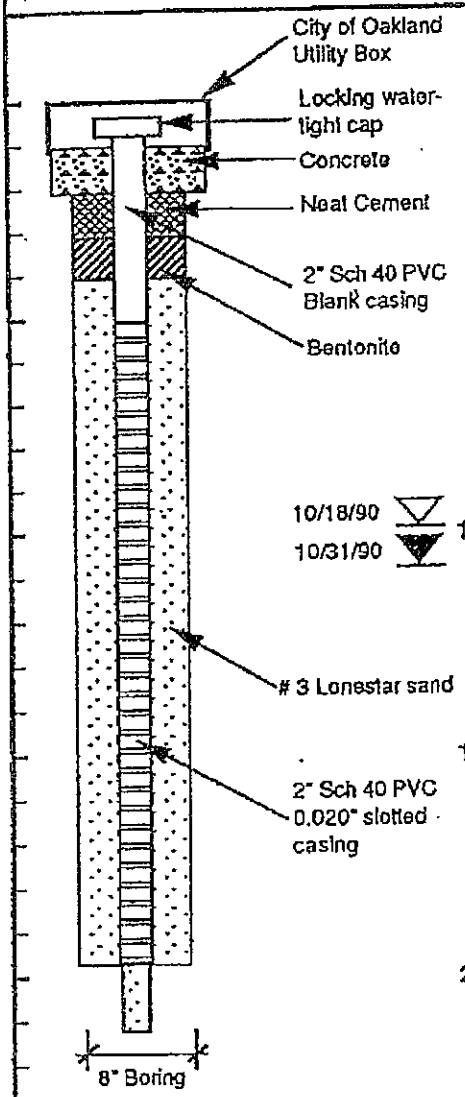
LOG OF BORING MW-5

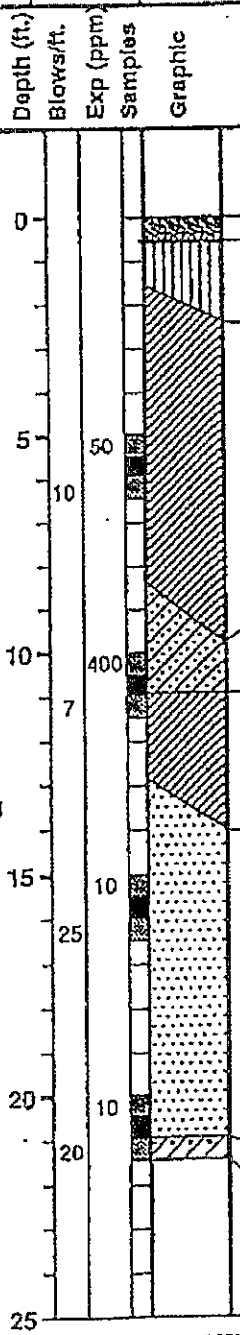
Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California



Project No.: RC2503
Logged By: Jim Wilmersher
Drilling Co.: HEW
Driller: Hanibal

Date Drilled: October 18,1990
Drilling Method: 8" Hollow Stem Auger.
Sampling Method: 2" Split spoon
Inclination: Vertical





DESCRIPTION

Surface Elevation: 82.24'
Casing Elevation: 81.95'

Asphaltic Concrete

GRAVELLY SILT (ML), backfill, dark yellowish brown (10 YR 3/4); 10 to 20% coarse gravel (less than 30mm dia.); 10 to 20% medium sand; dry.

SANDY CLAY (CL), dark brown (10YR 3/3); 20 to 30% fine to medium sand; trace to 10% silt; stiff; moist.

CLAYEY SAND (SC), dark greenish gray (5GY 4/1); fine grain; 10 to 20% clay; loose; wet.

GRAVELLY CLAY (CL), dark greenish gray (5GY 4/1); 10 to 20% fine gravel; trace to 10% coarse sand; wet.

SAND (SP) light olive brown (2.5Y 5/4); fine to medium grain (30% medium grain); 10 to 20% silt; dense; wet.

@ 16.5 feet: 10 to 20% coarse sand; trace to 5% fine gravel; moist.

@ 20 feet: medium to coarse sand; trace to 10% fine gravel; trace coarse gravel.

@ 20.5 feet: olive gray (5Y 5/2); trace fine gravel; wet.

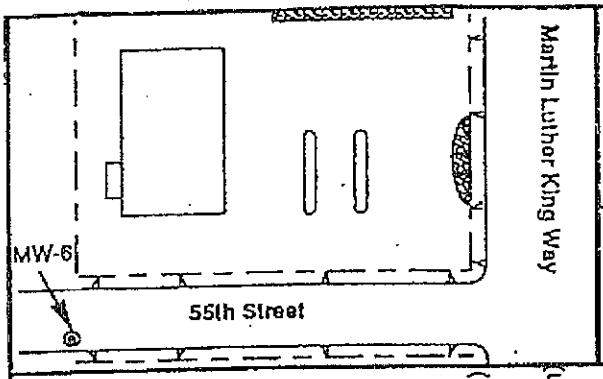
@ 21.5 feet: 10 to 15% silt; moist.

CLAYEY GRAVEL (GC), olive gray (5Y 5/2); coarse gravel 20 to 30% clay (gray); 10 to 15% silt; very stiff; moist.

Bottom of Boring: 21.5 feet
Time: 12:05 PST Date: 10/18/90

LOG OF BORING MW-6

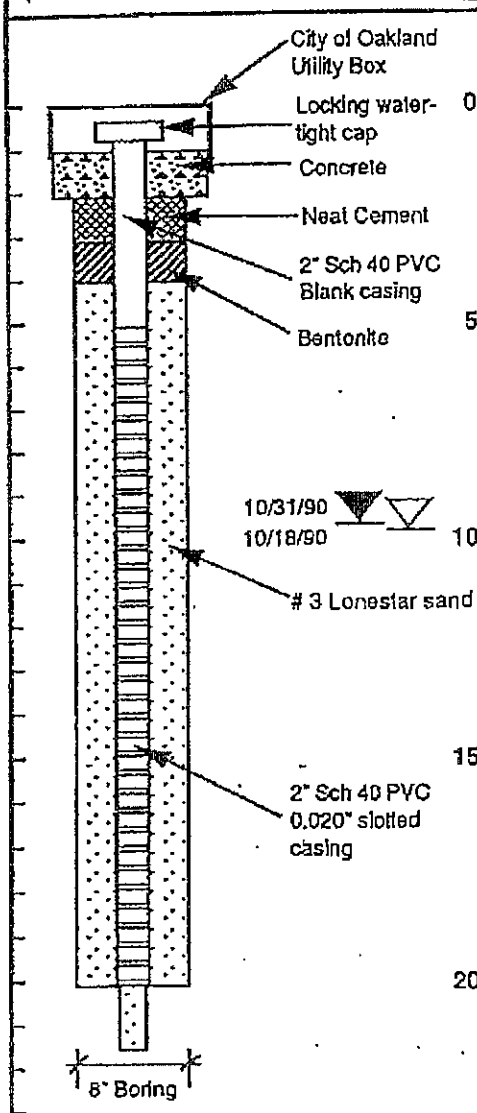
Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California



Project No.: RC2603
Logged By:Jim Wilmersher
Drilling Co.: HEW
Driller: Hanibal

Date Drilled:October 18,1990
Drilling Method: 8" Hollow Stem Auger.
Sampling Method: 2" Split spoon
Inclination: Vertical

WELL CONSTRUCTION



Depth (ft.)	Blows/ft.	Exp (ppm)	Samples	Graphic	DESCRIPTION
					Surface Elevation: 80.94'
					Casing Elevation: 80.60'
0					Asphaltic Concrete
					SANDY SILT (ML), very dark grayish brown (2.5Y 3/2); 10 to 30% fine to medium sand; roots; worm borings; medium dense; moist.
5	13	10			
10	11	50			SILTY CLAY (CL), gray (2.5 N/4) mottled light olive brown (2.5 4/3); 10 to 30% silt; stiff; moist.
15	17	10			SANDY SILT (ML), gray (5Y 6/1) mottled olive brown (2.5Y 4/4); 20 to 30% medium to fine sand; 10 to 20% clay; charcoal; stiff; wet.
					CLAYEY SILT (ML), gray (5Y 6/1) mottled olive brown (2.5Y 4/4); 10 to 20% clay; trace to 10% fine gravel; moist to wet
20	17	8			SANDY GRAVEL (GP), yellow brown (10YR 5/3); fine gravel; 20 to 30% coarse sand; dense; wet.
					GRAVELLY CLAY (CL), yellowish red (5YR 5/6); 10 to 20% coarse gravel; subangular; trace to 10% medium sand; ferro-magnesium staining; wet.
25					Bottom of Boring: 20 feet Time: 07:53 PST Date: 10/18/90

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well MW-7

Project CHV/5509 Martin Luther King Jr. Way Owner Chevron U.S.A., Inc.
Location Oakland, CA Proj. No. 020204528
Surface Elev. 88.59 ft. Total Hole Depth 20 ft. Diameter 8 in.
Top of Casing 88.36 ft. Water Level Initial 14 ft. Static 11.05 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type PVC sch 40
Fill Material #3 sand Rig/Core B-61/Split Spoon
Drill Co. SES Inc. Method Hollow Stem Auger
Driller Mike Duffy Log By Robert Fehr Date 2-22-94 Permit # N/A
Checked By Michael Blundell License No. RG# 5146 CA

See Site Map For Boring Location

COMMENTS:

Depth to water was approximately 14 feet below grade on 2/22/94. Installed under Zone 7 Water Agency, permit No. 94097

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						AC	Asphalt
2							
4							
6		2.3	MW7 (5)	3 6 9			lean CLAY, dark brown, about 5% medium sand (moist, stiff, no hydrocarbon odor, medium plasticity)
8							
10		1.5		3 5 6		CL	same, grading to medium gray with mottled medium brown, increasir moisture.
12							*Water level, 3/9/94*
14							*Water encountered during drilling 2/22/94*
16		35.4	MW7 (15)	1 2 3			same, trace organic matter, (saturated, soft,slight hydrocarbon odor)
18							
20		1.9		2 3 7			lean CLAY, dark gray, (no hydrocarbon odor, high plasticity)
22							End of boring at 20 feet below grade.
24							

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well MW-E

Project CHV/5509 Martin Luther King Jr. Way Owner Chevron U.S.A., Inc.
Location Oakland, CA Proj. No. 020204528
Surface Elev. 86.30 ft. Total Hole Depth 20 ft. Diameter 8 in.
Top of Casing 85.93 ft. Water Level Initial 14 ft. Static 10.59 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type PVC sch 40
Fill Material #3 sand Rig/Core B-61/Split Spoon
Drill Co. SES Inc. Method Hollow Stem Auger
Driller Mike Duffy Log By Robert Fehr Date 2-22-94 Permit # N/A
Checked By Michael Blundell License No. RG# 5146

See Site Map For Boring Location

COMMENTS:

Depth to water was approximately 14 feet below grade on 2/22/94. Installed under Zone 7 Water Agency permit No. 94097

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
0						A/C	Asphalt
6		1.5		3 5 7			lean CLAY, medium brown, (moist, stiff, no hydrocarbon odor, medium plasticity)
10		1.5	MW8 (10)	3 4 5		CL	same, grading to medium gray with mottled medium brown, increasing moisture, medium stiff.
							Water level, 3/9/94
14							*Water encountered during drilling 2/22/94*
16		3.2	MW8 (15)	2 3 3			same, medium brown with mottled dark brown, saturated.
20		3.2		1 3 3			lean CLAY, dark gray, (saturated, soft, high plasticity), trace organic matter (0.25-inch wood fragment).
							End of boring at 20 feet below grade.

Conestoga-Rovers & Associates
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Roseville, CA
Telephone: 916-677-3407
Fax: 916-677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-1
JOB/SITE NAME	9-1583	DRILLING STARTED	04-Jan-07
LOCATION	5509 Martin Luther King Blvd., Oakland	DRILLING COMPLETED	04-Jan-07
PROJECT NUMBER	61H-1960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Cambria	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3 inches	SCREENED INTERVAL	NA
LOGGED BY	L. Gearhart	DEPTH TO WATER (First Encountered)	12.0 fbg (04-Jan-07) ▽
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA ▽
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
							Fill	2.0	
0		B-1@3			CH		CLAY: dark brown; damp; 60% clay, 30% silt, 10% sand; high plasticity; low estimated permeability.	4.0	
				5			CLAY: brown; moist; 70% clay, 30% silt; high plasticity; low estimated permeability.		
0		B-1@6			CH		@ 6 fbg: dark brown.		Portland Type I/II
0		B-1@9		10				11.0	
					CH		CLAY with sand: grey; wet; 60% clay, 25% silt, 15% sand; high plasticity; low estimated permeability. ▽	12.0	Bottom of Boring @ 12 fbg

WELL LOG (PID) I:\ROCKLIN.CHEVRON\9-1583 OAKLAND\GINT\9-1583.GPJ DEFAULT.GDT 8/21/08

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-2
JOB/SITE NAME	9-1583	DRILLING STARTED	04-Jan-07
LOCATION	5509 Martin Luther King Blvd., Oakland	DRILLING COMPLETED	04-Jan-07
PROJECT NUMBER	61H-1960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Cambria	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3 inches	SCREENED INTERVAL	NA
LOGGED BY	J. Bostick	DEPTH TO WATER (First Encountered)	11.0 fbg (04-Jan-07)
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill	2.0	Concrete
0		B-2@3			CL		CLAY with sand: brown; dry; 60% clay, 20% silt, 20% sand; medium plasticity; moderate estimated permeability.	5.0	
0		B-2@6		5	CH		CLAY: brown with red mottling; dry; fine grained sand; 75% clay, 15% silt, 10% sand; high plasticity; low estimated permeability.	7.0	Portland Type I/II
0		B-2@9			CH		CLAY: dark brown; dry; firm; 80% clay, 15% silt, 5% sand; high plasticity; low estimated permeability.		
				10			▽	11.0	Bottom of Boring @ 11 fbg

WELL LOG (PID) I:\ROCKLIN\CHEVRON\9-1583 OAKLAND\GINT\9-1583.GPJ DEFAULT.GDT 8/21/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-3
JOB/SITE NAME	9-1583	DRILLING STARTED	03-Jan-07
LOCATION	5509 Martin Luther King Blvd., Oakland	DRILLING COMPLETED	03-Jan-07
PROJECT NUMBER	61H-1960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Cambria	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3 Inches	SCREENED INTERVAL	NA
LOGGED BY	L. Gearhart	DEPTH TO WATER (First Encountered)	11.0 fbg (03-Jan-07) ▽
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA ▽
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
							Base Rock	1.0	
							CLAY: brown; moist; 60% clay, 30% silt, 10% sand; high plasticity; low estimated permeability.		
0		B-3@3			CH				
				5				5.0	
							CLAY: brown; dry; 70% clay, 25% silt, 5% sand; high plasticity; low estimated permeability.		Portland Type I/II
0		B-3@8							
					CH		@ 7 fbg: dark brown; moist.		
							@ 8 fbg: gray with brown mottling; moist.		
0		B-3@9							
				10			▽	11.0	Bottom of Boring @ 11 fbg

WELL LOG (PID) I:\ROCKLIN\CHEVRON\9-1583 OAKLAND\GINT\9-1583.GPJ DEFAULT.GDT 9/21/07

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-4
JOB/SITE NAME	9-1583	DRILLING STARTED	03-Jan-07
LOCATION	5509 Martin Luther King Blvd., Oakland	DRILLING COMPLETED	03-Jan-07
PROJECT NUMBER	61H-1960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Cambria	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3 inches	SCREENED INTERVAL	NA
LOGGED BY	J. Bostick	DEPTH TO WATER (First Encountered)	13.0 fbg (03-Jan-07)
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.5	Concrete
					SP		SAND	1.0	
					CH		CLAY: dark brown with black mottling; moist; 60% clay, 30% silt 10% sand; high plasticity; low estimated permeability.	3.0	
0		B-4@3			CH		CLAY: dark brown; moist; 70% clay, 25% silt, 5% sand; high plasticity; low estimated permeability.	5.0	
				5					
0		B-4@8			CL		Sandy CLAY: light brown; moist; fine grained sand; 50% clay, 30% sand, 20% silt; medium plasticity; moderate estimated permeability.	8.0	Portland Type I/II
0		B-4@9			CH		CLAY: dark brown with red mottling; moist; 70% clay, 20% silt, 10% sand; high plasticity; low estimated permeability.	10.0	
				10					
					CL		CLAY with sand: gray with red mottling; moist; 50% clay, 25% sand, 25% silt; medium plasticity; moderate estimated permeability.	13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\ROCKLIN\CHEVRON\9-1583 OAKLAND\GINT\9-1583.GPJ DEFAULT.GDT 8/21/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	B-5
JOB/SITE NAME	9-1583	DRILLING STARTED	04-Jan-07
LOCATION	5509 Martin Luther King Blvd., Oakland	DRILLING COMPLETED	04-Jan-07
PROJECT NUMBER	61H-1960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Cambria	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3 inches	SCREENED INTERVAL	NA
LOGGED BY	J. Bostick	DEPTH TO WATER (First Encountered)	(04-Jan-07) ▽
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
0		B-5@3					FILL: brown; dry; medium to large grained sands; 40% sand, 35% gravel, 15% silt, 10% clay; high estimated permeability.		Portland Type I/II
0		B-5@5		5			@ 5 fbg: Refusal	5.5	Bottom of Boring @ 5.5 fbg

WELL LOG (PID) I:\ROCKLIN\CHEVRON\9-1583 OAKLAND\GINT\9-1583.GPJ DEFAULT.GDT 8/21/08

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	VP-1
JOB/SITE NAME	9-1583 Oakland	DRILLING STARTED	26-Aug-08
LOCATION	5509 Martin Luther King Jr Way	DRILLING COMPLETED	26-Aug-08
PROJECT NUMBER	611960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3-inch	SCREENED INTERVAL	5 to 5.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	James Kiernan, PE	DEPTH TO WATER (Static)	NA
REMARKS			

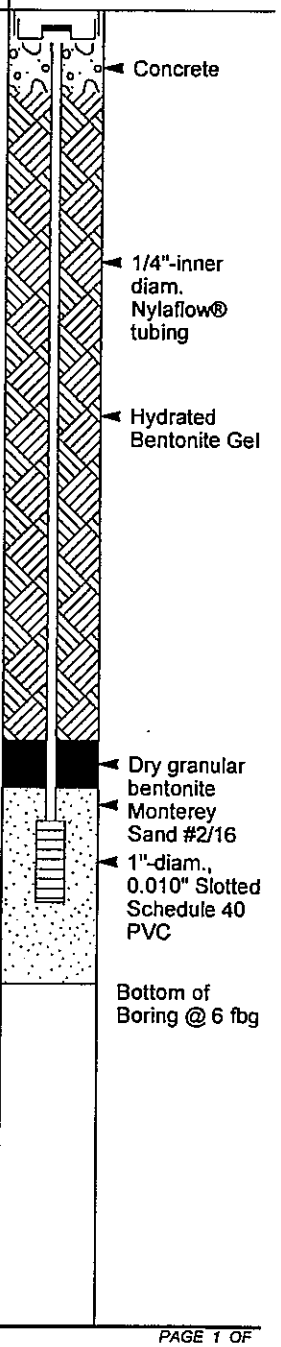
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
					GC		**Clayey GRAVEL with sand:** brown; moist; 50% gravel, 25% sand, 25% clay; fine to medium grained sand; low plasticity; high estimated permeability.	1.0	
							CLAY with sand: brown; moist; 70% clay, 15% silt, 15% sand; medium plasticity; low estimated permeability.		1/4"-inner diam. Nylaflow® tubing
									Hydrated Bentonite Gel
0.3		VP-1-3'			CL				
				5					Dry granular bentonite
									Monterey Sand #2/16
									1"-diam., 0.010" Slotted Schedule 40 PVC
								6.0	Bottom of Boring @ 6 fbg

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA
Telephone: 916-677-3407
Fax: 916-677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	VP-2
JOB/SITE NAME	9-1583 Oakland	DRILLING STARTED	26-Aug-08
LOCATION	5509 Martin Luther King Jr Way	DRILLING COMPLETED	26-Aug-08
PROJECT NUMBER	611960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3-inch	SCREENED INTERVAL	5 to 5.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	James Kiernan, PE	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Asphalt	0.5
					GC		**Clayey GRAVEL with sand:** dark brown; moist; 50% gravel, 25% sand, 25% clay; fine to medium grained sand; low plasticity; high estimated permeability.	1.0
0.2		VP-2- 3'		5	CL		**CLAY with sand:** dark brown; moist; 75% clay, 25% sand; medium plasticity; low estimated permeability.	6.0



WELL LOG (PID) I:\ROCKLIN.CHEVRON\6119--1611960 - 9-1583 OAKLAND\611960-REPORTS\611960-RPT1-SOIL VAPOR ASSESSMENT RPT\9-1583 VAPOR PROBES 2008.GPJ DEFAULT.GDT 10/21/08

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA
Telephone: 916-677-3407
Fax: 916-677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	VP-3
JOB/SITE NAME	9-1583 Oakland	DRILLING STARTED	26-Aug-08
LOCATION	5509 Martin Luther King Jr Way	DRILLING COMPLETED	26-Aug-08
PROJECT NUMBER	611960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3-inch	SCREENED INTERVAL	5 to 5.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	James Kiernan, PE	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
					GC		**Clayey GRAVEL with sand:** dark brown; moist; 50% gravel, 25% sand, 25% clay; fine to medium grained sand; low plasticity; high estimated permeability.	1.0	
							CLAY: dark grey; moist; 70% clay, 20% silt, 10% sand; medium plasticity; low estimated permeability.		1/4"-inner diam. Nylaflow® tubing
									Hydrated Bentonite Gel
0.1		VP-3- 3'			CL				
							At 4 fbg dark brown.		
				5					Dry granular bentonite
									Monterey Sand #2/16
									1"-diam., 0.010" Slotted Schedule 40 PVC
								6.0	Bottom of Boring @ 6 fbg

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA
Telephone: 916-677-3407
Fax: 916-677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	VP-4
JOB/SITE NAME	9-1583 Oakland	DRILLING STARTED	26-Aug-08
LOCATION	5509 Martin Luther King Jr Way	DRILLING COMPLETED	26-Aug-08
PROJECT NUMBER	611960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3-inch	SCREENED INTERVAL	5 to 5.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	James Kiernan, PE	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Asphalt	0.7
					GC		Clayey GRAVEL with sand: dark brown; moist; 50% gravel, 25% sand, 25% clay; fine to medium grained sand; low plasticity; high estimated permeability.	1.2
					CL		Sandy CLAY: dark brown; moist; 50% clay, 30% sand, 20% silt; low plasticity; moderate estimated permeability.	2.0
0.3		VP-4-3'		5	CL		CLAY: dark brown; moist; 70% clay, 20% silt, 10% sand; medium plasticity; low estimated permeability.	6.0

WELL DIAGRAM

- Concrete
- 1/4"-inner diam. Nylaflow® tubing
- Hydrated Bentonite Gel
- Dry granular bentonite
- Monterey Sand #2/16
- 1"-diam., 0.010" Slotted Schedule 40 PVC
- Bottom of Boring @ 6 fbg

WELL LOG (PID) I:\ROCKLIN.CHEVRON\6119--\611960 - 9-1583 OAKLAND\611960-REPORTS\611960-RPT1-SOIL VAPOR ASSESSMENT RPT\9-1583 VAPOR PROBES 2008.GPJ DEFAULT.GDT 10/21/08

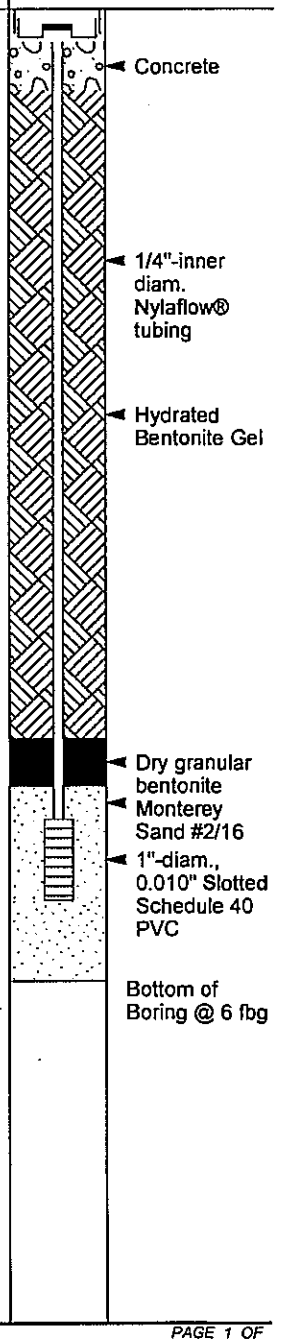
Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA
Telephone: 916-677-3407
Fax: 916-677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	VP-5
JOB/SITE NAME	9-1583 Oakland	DRILLING STARTED	26-Aug-08
LOCATION	5509 Martin Luther King Jr Way	DRILLING COMPLETED	26-Aug-08
PROJECT NUMBER	611960	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3-inch	SCREENED INTERVAL	5 to 5.5 fbg
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	James Kiernan, PE	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Asphalt	0.5
					GC		Clayey GRAVEL with sand: dark brown; moist; 50% gravel, 25% sand, 25% clay; fine to medium grained sand; low plasticity; high estimated permeability.	1.0
0.3		VP-5-3'		5	CL		CLAY: dark grey; moist; 70% clay, 20% silt, 10% sand; medium plasticity; low estimated permeability.	6.0

WELL DIAGRAM



APPENDIX C

NEARBY WELL AND SENSITIVE RECEPTOR INFORMATION

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

August 1, 2002

Ms. Karen Streich
Chevron Products Company
6001 Bollinger Canyon Road, Room L4050
San Ramon, CA 94502-6577

Subject: *Sensitive Receptor Survey*
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California
Delta Project No. DG91-583

Dear Ms. Streich:

Delta Environmental Consultants, Inc. (Delta) has been authorized by Chevron Products Company (Chevron) to conduct a sensitive receptor survey in the vicinity of Chevron Service Station No. 9-1583, located at 5509 Martin Luther King Way, Oakland, Alameda County, California. The location of the site is presented in Figure 1 and a site map is presented as Figure 2. Photographs of the site were taken in April 2002 and are presented in Enclosure A. The purpose of this survey was to identify potential sensitive receptors of the residual petroleum hydrocarbons in soil and groundwater at the site.

Project Background Information

Petroleum hydrocarbons in soil and groundwater related to the operation of product storage and dispensing systems at the site were first reported in December 1989. During a product line upgrade it was discovered that gasoline had been released from a product line located near the dispenser islands. The piping was replaced and an investigation of the extent of gasoline release was initiated. Petroleum hydrocarbons were detected in one soil sample collected from the product line trenches in December 1989.

Between December 1983 and March 1994, eight groundwater monitoring wells were installed to define the extent of petroleum hydrocarbons in soil and groundwater. Quarterly groundwater monitoring was initiated in March 1990. Groundwater monitoring wells are currently sampled on a semi-annual and annual basis. In general, groundwater beneath the site flows toward the east-southeast.

In April 1995, the used oil underground storage tanks (USTs) was removed from the northwest corner of the site. Soil samples were collected from the base of the excavation at a depth of approximately 11 feet below surface grade (bsg). Petroleum hydrocarbons and trace metals were detected in soil samples collected. The former UST basin was overexcavated to approximately 12.5 feet bsg. In May 1995, approximately 80 cubic yards of used oil-impacted soil was transported and disposed of at BFI Waste Systems in Livermore, CA.

In November 1998, Musco Excavators removed two single-post, semi-hydraulic hoists and one dual-post, hydraulic hoist with a clarifier from the site. Soil samples were collected beneath each of the hoists at depths ranging from 7.5 to 8 feet bsg. Trace metals were detected in a soil sample collected beneath the dual-post hoist and clarifier.

Property Boundary and Land Use

The subject is currently operated as retail fueling station. Martin Luther King Way borders the site to the east, 55th Street to the south, and commercial businesses and residential housing to the north and west. The site consists of a station building, two dispenser islands, and three USTs that share a common pit near the southern site boundary. Pertinent site features are shown on Figure 2. Site photographs, with descriptions, are included in Enclosure A.

Site Sketch

A site map is presented in Figure 2. The following information is provided in the site map:

- Site property lines
- Existing UST locations
- Existing monitoring wells
- Street names
- Buildings on site and adjacent properties
- Drains
- Utility vaults and lines

Topography

The land surrounding the site is relatively flat. Regionally, the topography slopes gently to the west. A USGS topographic map with the site centered on the map is presented in Figure 1.

Distance To Surface Water Bodies

There are no surface water bodies within a one-mile radius of the site. The nearest surface water body identified is Glen Echo Creek, located approximately 7,400 feet southeast of the subject site.

Local Water Supply

The Alameda County Water District supplies water to Alameda County from three sources: treated surface water, purchased San Francisco water, and blended water. The treated surface water is imported from the Sacramento/San Joaquin Delta and/or Lake Del Valle via the South Bay Aqueduct. This water is purified at the local water treatment plants. Purchased San Francisco water is surface water, which originates in either Hetch Hetchy Reservoir in Yosemite National Park, or locally in Calaveras or San Antonio Reservoirs in the Alameda Creek watershed. Blended water consists of purchased San Francisco water and local groundwater. The groundwater supply comes from the Niles Cone Groundwater Basin and is replenished through infiltrations from local rainwater, runoff from the Alameda Creek watershed, and water from the South Bay Aqueduct.

Municipal Water Wells

Based on a review of available public records and reconnaissance in the vicinity of the site, there are no municipal water supply wells present within 2,000 feet of the site. Delta confirmed this by telephone with the County of Alameda Public Works Agency in May 2001.

Private Water Wells

On April 24, 2002, Delta conducted a search of Department of Water Resources (DWR) files for domestic, municipal, and irrigation supply wells within 2,000 feet of the subject site. Two well sites were identified from the DWR search and were listed as active. One of the well sites was listed as an industrial well and the other as a cathodic protection well. The industrial well is located approximately 1,200 feet northwest of the subject site. An inventory of wells identified within 2,000 feet of the subject site is presented in Table 1. The well locations are presented on Figure 3.

Utilities and Vaults

During the site visit conducted by Delta on April 26, 2002, there were no man-sized utility vaults identified within the search area. However, several minor utility vaults were identified that included Pacific Bell and PG&E. Utilities identified adjacent to the site included: storm drains, sanitary sewer, TV cable, and water buried at depths between 4 and 22 feet bsg. Historical depth to groundwater at the site has ranged between 6.70 and 13.99 feet bsg. Storm drains were located throughout the site and were measured at approximately 3.0 feet bsg. Their trenches could act as a potential pathway of dissolved and vapor phase hydrocarbons. Locations of utilities are shown on Figure 2.

Photographs of the vault boxes are presented in Enclosure A as photographs 7 through 10. Photographs 7 and 8 depict electrical vault boxes along the east property boundary, photorgraph 9 depicts two electrical vault boxes and a telephone vault box along the east property boundary, and photograph 10 depicts an electrical vault box along the south property boundary.

Basements and Tunnels

There were no basements or tunnels identified a 250-foot radius of the site.

Aquifer Information

The water-bearing material beneath the site has not been classified as a potential source of drinking water. Delta confirmed this in a telephone conversation with the County of Alameda Public Works Agency in May 2002.

Remarks/Signatures

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this document, please contact Ben Heningburg at 916-536-2623.

Sincerely,

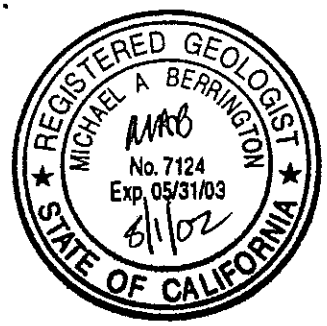
DELTA ENVIRONMENTAL CONSULTANT, INC.

Brett a. Bardsley

Brett A. Bardsley
Staff Geologist

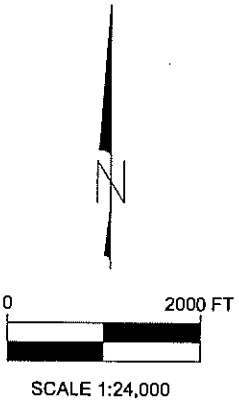
Benjamin P. Heningburg
Project Manager

Mike A. Berrington, R.G.
California Registered Geologist No. 7124



BAB (LRP001.9-1583)
Enclosure
cc: Mr. Jim Brownell – Delta Environmental Consultants
Ms. Donna Drogos - Alameda County Health Care Services

GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND WEST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980



SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO. DG91-583	DRAWN BY M.L. 6/21/02
FILE NO. DG91583A	PREPARED BY BAB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

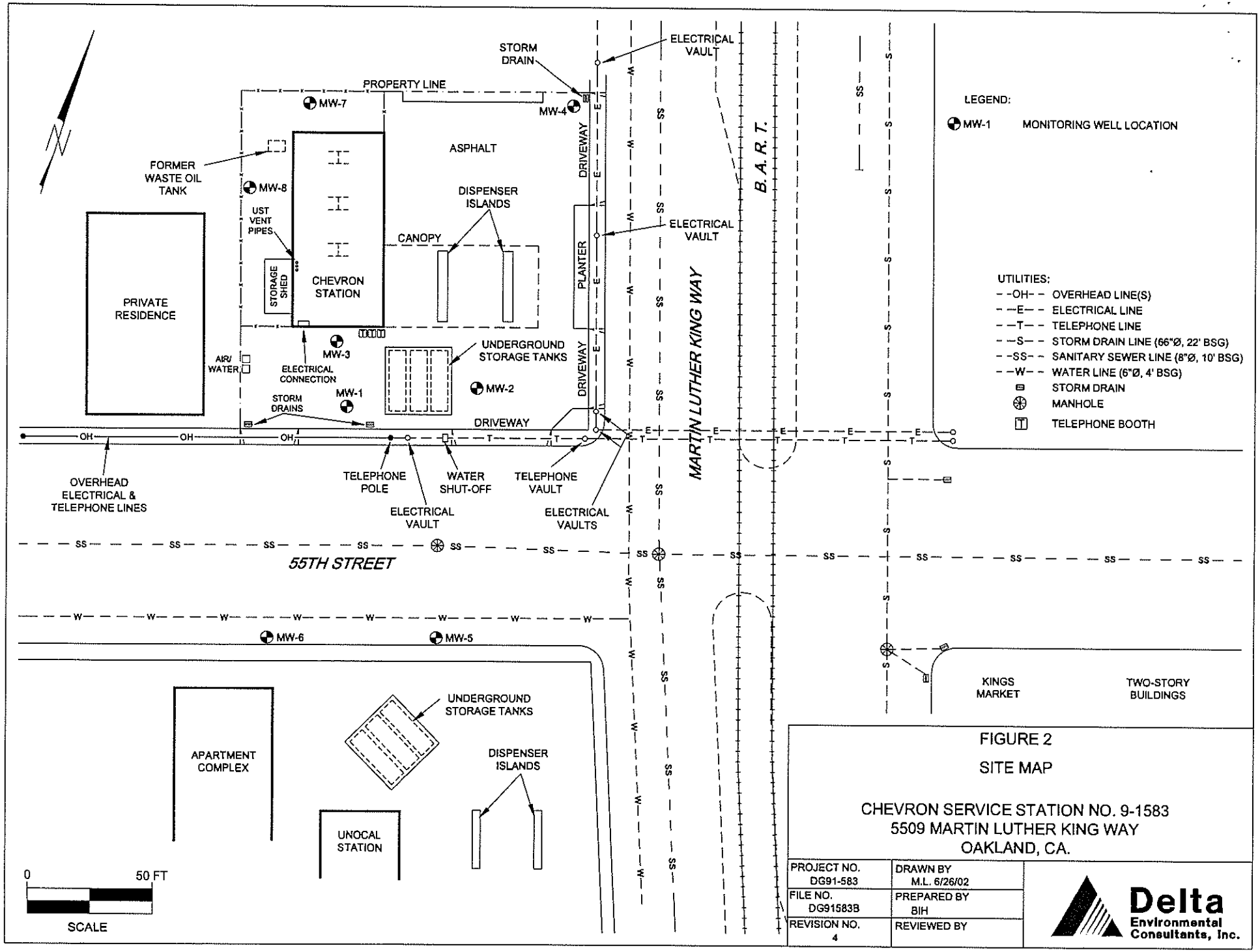


FIGURE 2

SITE MAP

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO. DG91-583	DRAWN BY M.L. 6/26/02
FILE NO. DG91583B	PREPARED BY BIH
REVISION NO. 4	REVIEWED BY

Delta Environmental Consultants, Inc.

LEGEND:

① WATER WELL LOCATION

GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND WEST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

N

0 2000 FT

SCALE

FIGURE 3

WATER WELL LOCATION MAP WITHIN
A 2,000 FOOT RADIUS OF SITE

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO. DG91-583	DRAWN BY M.L. 6/21/02
FILE NO. DG91583A	PREPARED BY BAB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

TABLE 1

INVENTORY OF WATER WELLS WITHIN 2,000 FEET OF SITE

Chevron Service Station No. 9-1583
5509 Martin Luther King Way,
Oakland, California

Site Map Location	DWR Well I.D.	Well Location	Date Drilled	Proposed Use	Total Depth (ft)	Screened Interval(s) (ft)	Sanitary Seal Depth	Status
1	1S/4W 14L1	5702 B Adeline Street	07/26/77	Industrial	92	42-88	20	Active
2	1S/4W 14P1	4801 Oakport Street	04/11/74	Cathodic	120	None	93	Active

3. Beneficial Uses

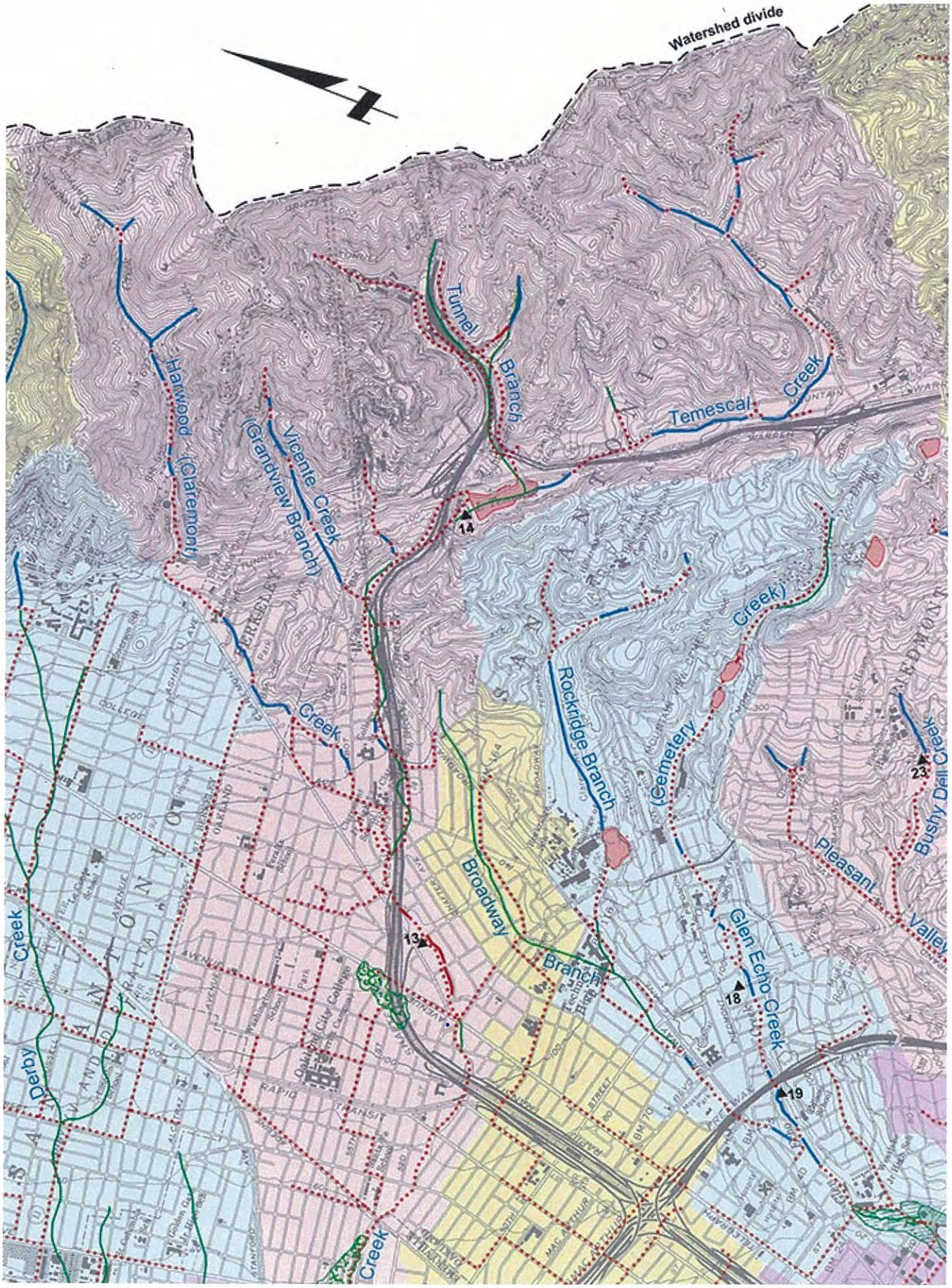
3.1 San Francisco Bay RWQCB Basin Plan

Existing and potential beneficial uses for groundwater are presented in the *San Francisco Bay Basin (Region 2) Water Quality Control Plan* (Basin Plan; Regional Water Quality Board [RWQCB] 2007). According to the Basin Plan (RWQCB 2007), the site is situated in the East Bay Plain groundwater sub-basin (basin number 2-9.04). Water supply uses, including municipal and domestic, industrial process, industrial service and agricultural, are identified in the Basin Plan (RWQCB 2007) as existing beneficial uses, based on best available information. The nearest surface-water body is the San Francisco Bay, located approximately 1.5 miles west of the site.

3.2 Sensitive Receptor Survey and Potential Exposure Pathways

To address the potentially complete exposure pathways (groundwater, soil and soil vapor), ARCADIS conducted a sensitive receptor survey (SRS) in January 2010. The objective of the SRS was to identify potential downgradient and aboveground risk receptors within 2,500 feet of the site. Potential risk receptors included water-producing wells, schools, hospitals and surface-water bodies and aquatic environments. The Alameda County Public Works Agency (ACPWA) was contacted for a survey of all subsurface wells within 2,500 feet (0.5 miles) of the site. An email reply from the ACPWA indicated that 1 irrigation well, 2 industrial wells, 58 monitoring wells, 5 wells for geotechnical investigations, 3 extraction/vapor wells, 4 test wells, and no municipal wells are present within 2,500 feet of the site. Results of the well survey are confidential and therefore are not presented in this report. However, many of the wells are not located downgradient of the site, and those that are downgradient of the site are located at the furthest extent of the 0.5 mile radius and are predominantly monitoring wells. The lone irrigation well is located approximately 0.2 miles (approximately 1,050 feet) southeast of the site.

A local internet search of the area surrounding the site yielded the presence of three schools within 2,500 feet of the site: Santa Fe Elementary School located approximately 1,200 feet southwest of the site; Oakland High School located approximately 1,700 feet southwest of the site, and Grace Children's Center located approximately 2,400 feet southwest of the site. The nearest surface-water body is the San Francisco Bay, located approximately 1.5 miles west of the site.


Watershed divide
Tunnel Branch
Temescal Creek
Hanwood (Claremont)
Vicente Creek (Grandview Branch)
Creek
Rockridge Branch
(Cemetery Creek)
Broadway Branch
Glen Echo Creek
Pleasant Valley
Bushy Dell Creek
Derby
Creek
14
13
18
19
23

APPENDIX D

SECOND SEMI-ANNUAL 2011 GROUNDWATER MONITORING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

August 10, 2011
G-R #386506

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

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

RE: Former Chevron Service Station
#9-1583 (MTI)
5509 Martin Luther King Way
Oakland, California
RO 0000002

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 4, 2011	Groundwater Monitoring and Sampling Report **Second Semi-Annual Event of July 12, 2011**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following (including PDF submittal of the entire report to GeoTracker):**

Ms. Olivia Skance, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583

cc: Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-CRA UPLOAD TO ALAMEDA CO.)
Mr. Ben Shimek, (Owner), 31 Industrial Way, Greenbrae, CA 94904

Enclosures

trans/9-1583-OS

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-1583
Site Address: 5509 Martin Luther King Way
City: Oakland, CA

Job #: 386506
Event Date: 7 / 12 / 11
Sampler: HAIG KEVORK

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1	OK	N/A	N/A	N/A	OK	OK	OK	N	N	CHRISTY BOX	NO
MW-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-7	OK	OK	OK	2-5	OK	OK	OK	↓	↓	MORRISON - M11/2	↓
MW-8	OK	OK	OK	2-5	OK	OK	OK	↓	↓	EMCO - 12"/2	↓

Comments

GETTLER-RYAN INC.

August 4, 2011
G-R Job #386506

Ms. Olivia Skance
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

RE: Second Semi-Annual Event of July 12, 2011
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

Dear Ms. Skance:

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

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

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

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

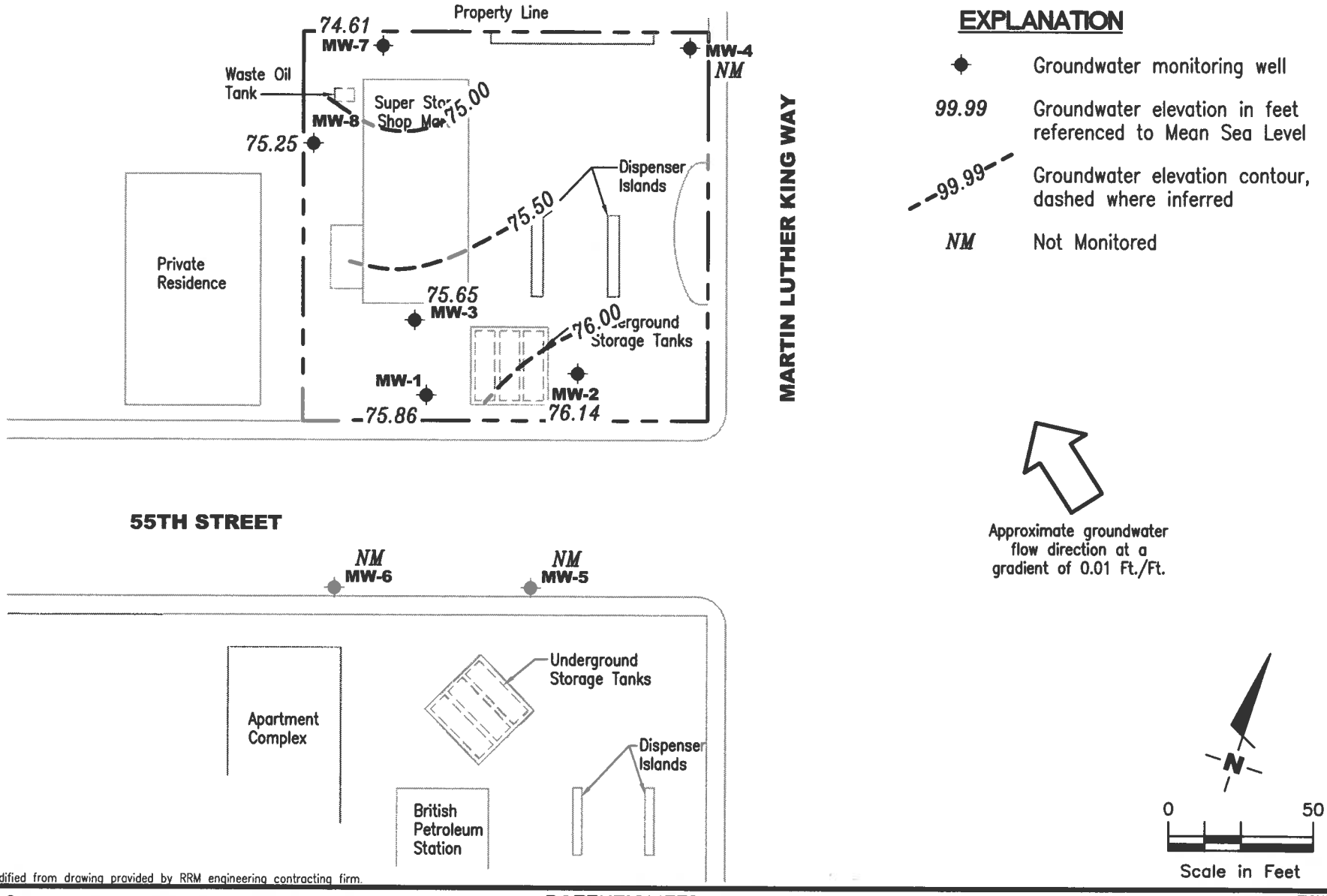
Sincerely,

Deanna L. Harding
Project Coordinator

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

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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



Source: Figure modified from drawing provided by RRM engineering contracting firm.

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

POTENTIOMETRIC MAP
Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386506		July 12, 2011	

FILE NAME: P:\Envira\Chevron\9-1583\Q11-9-1583.dwg | Layout Tab: Pot2

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1													
12/22/83	81.97	71.72	10.25	--	--	--	--	--	--	--	--	--	--
12/30/83	81.97	72.80	9.17	--	--	--	--	--	--	--	--	--	--
03/12/90	81.97	71.89	10.08	--	--	--	50,000	3,000	7,300	1,900	18,000	--	--
03/25/90	82.42	71.51	10.46	--	--	--	--	--	--	--	--	--	--
10/18/90	82.42	--	--	--	--	--	--	--	--	--	--	--	--
10/31/90	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	82.42	70.84	11.58	--	--	--	--	--	--	--	--	--	--
02/08/91	82.42	72.31	10.11	--	--	--	100,000	4,200	8,400	16,000	2,600	--	--
05/08/91	82.42	71.97	10.45	--	--	--	31,000	200	66	670	2,000	--	--
08/12/91	82.42	71.19	11.23	--	--	--	17,000	81	7.2	270	710	--	--
11/07/91	82.42	71.72	10.70	--	--	--	7,100	24	6.0	130	170	--	--
02/05/92	82.42	72.05	10.37	--	--	--	110,000	8,900	14,000	2,700	12,000	--	--
05/13/92	82.42	71.84	10.58	--	--	--	19,000	450	85	480	870	--	--
07/17/92	82.42	71.37	11.05	--	--	--	8,500	170	<10	360	600	--	--
10/05/92	82.42	71.01	11.41	--	--	--	22,000	4,300	5,100	570	2,900	--	--
11/11/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	82.42	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	82.42	74.31	8.11	--	--	--	14,000,000	12,000	79,000	270,000	1,300,000	--	--
02/02/93	82.42	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	82.42	72.57	9.85	--	--	--	48,000	670	1,100	1,600	6,300	--	--
08/06/93	82.42	71.59	10.83	--	--	--	44,000	660	990	1,600	6,100	--	--
10/21/93	82.42	71.52	10.90	--	--	--	18,000	270	460	1,300	4,700	--	--
01/05/94	82.42	72.09	10.33	--	--	--	22,000	160	160	630	2,300	--	--
04/08/94	82.42	72.24	10.18	--	--	--	21,000	37	110	570	1,400	--	--
07/06/94	82.42	71.78	10.64	--	--	--	28,000	210	100	540	1,200	--	--
08/04/94	82.42	71.91	10.51	--	--	--	--	--	--	--	--	--	--
10/05/94	82.42	71.51	10.91	--	--	--	120,000	39	22	320	900	--	--
01/18/95	82.42	73.80	8.62	--	--	--	12,000	<20	<20	130	160	--	--
04/07/95	82.42	72.89	9.53	--	--	--	2,500	<2.5	<2.5	71	38	--	--
07/06/95	82.42	72.03	10.39	--	--	--	5,700	<0.5	<0.5	110	110	--	--
10/11/95	82.42	70.54	11.88	--	--	--	2,700	13	<5.0	13	5.7	650	--
01/17/96	82.42	73.14	9.28	--	--	--	4,200	12	<5.0	43	24	300	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1 (cont)													
04/05/96	82.42	72.82	9.60	--	--	--	1,300	<1.2	<1.2	7.6	2.8	220	--
07/23/96	82.42	72.19	10.23	--	--	--	700	<1.0	<1.0	7.0	4.8	240	--
10/02/96	82.42	71.67	10.75	--	--	--	1,700	<2.5	9.8	10	13	610	--
01/23/97	82.42	74.75	7.67	--	--	--	1,300	21	<10	<10	<10	2,700	--
04/01/97	82.42	72.22	10.20	--	--	--	670	<2.0	<2.0	4.1	3.6	1,200	--
07/09/97	82.42	72.12	10.30	--	--	--	460	<1.0	<1.0	<1.0	<1.0	440	--
10/07/97	82.42	71.73	10.69	--	--	--	1,100	8.5	<2.0	<2.0	2.0	250	--
01/22/98	82.42	74.20	8.22	--	--	--	460	1.4	5.8	<0.5	<0.5	150	--
04/02/98	82.42	72.89	9.53	--	--	--	220	2.5	1.2	<1.0	1.9	260	--
07/02/98	82.42	72.08	10.34	--	--	--	270	<0.5	0.82	<0.5	<0.5	140	--
10/02/98	82.42	71.70	10.72	--	--	--	170	1.3	<0.5	<0.5	<1.5	320	--
01/18/99	82.42	72.87	9.55	--	--	--	416	<2.5	<2.5	<2.5	<2.5	316/295[2]	--
07/22/99	82.42	71.61	10.81	--	--	--	186	<0.5	3.94	1.46	2.37	63.7	--
01/17/00	82.42	72.21	10.21	--	--	--	248	1.6	<0.5	<0.5	<0.5	41.0	--
07/05/00	82.42	72.12	10.30	0.00	--	--	76[3]	<0.50	<0.50	<0.50	0.79	69	--
01/15/01	82.42	73.01	9.41	0.00	--	--	66.6	<0.500	<0.500	<0.500	0.585	22.5	--
07/03/01	82.42	72.13	10.29	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	8.8	--
02/28/02	82.42	72.74	9.68	0.00	--	--	58	<0.50	<0.50	<0.50	<1.5	21	--
07/08/02	82.42	72.14	10.28	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	23	--
01/01/03	82.42	74.28	8.14	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	15	--
07/14/03[8]	82.42	72.12	10.30	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
01/12/04[8]	82.42	73.40	9.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	61	--
07/27/04[8]	82.42	72.10	10.32	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	54	--
01/25/05[8]	82.42	74.24	8.18	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/26/05[8]	82.42	72.40	10.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/24/06[8]	82.42	74.22	8.20	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
07/25/06[8]	82.42	72.30	10.12	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	14	--
01/23/07[8]	82.42	72.57	9.85	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	17	--
07/24/07[8]	82.42	70.59	11.83	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	7	--
01/22/08[8]	82.42	73.12	9.30	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	8	--
07/22/08[8]	82.42	71.69	10.73	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/13/09[8]	82.42	72.41	10.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/14/09	82.42	71.52	10.90	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	85.41	76.70	8.71	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	15	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1 (cont)													
07/13/10	85.41	75.09	10.32	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/25/11[8]	85.41	77.03	8.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/12/11	**85.41**	**75.86**	**9.55**	**0.00**	**SAMPLED ANNUALLY**		--	--	--	--	--	--	--
MW-2													
12/22/83	83.48	72.98	10.50	--	--	--	--	--	--	--	--	--	--
12/30/83	83.48	73.56	9.92	--	--	--	--	--	--	--	--	--	--
03/12/90	83.48	72.46	11.02	--	--	--	800	400	22	18	55	--	--
03/25/90	83.48	72.15	11.33	--	--	--	--	--	--	--	--	--	--
10/18/90	83.48	71.17	12.31	--	--	--	--	--	--	--	--	--	--
10/31/90	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	83.48	--	--	--	--	--	--	--	--	--	--	--	--
02/08/91	83.48	72.43	11.05	--	--	--	4,600	820	440	720	210	--	--
05/08/91	83.48	72.12	11.36	--	--	--	<50	5.0	<0.5	<0.5	<0.5	--	--
08/12/91	83.48	71.51	11.97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	83.48	71.98	11.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	83.48	72.29	11.19	--	--	--	1,700	390	170	60	200	--	--
05/13/92	83.48	71.99	11.49	--	--	--	74	9.3	<0.5	<0.5	<0.5	--	--
07/17/92	83.48	71.63	11.85	--	--	--	<50	2.0	<0.5	<0.5	<0.5	--	--
10/05/92	83.48	71.48	12.00	--	--	--	3,500	1,200	530	86	220	--	--
11/11/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	83.48	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	83.48	74.65	8.83	--	--	--	390	140	0.8	7.7	26	--	--
02/02/93	83.48	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	83.48	72.69	10.79	--	--	--	<50	5.0	<0.5	<0.5	<0.5	--	--
08/06/93	83.48	71.77	11.71	--	--	--	<50	1.0	<0.5	<0.5	<0.5	--	--
10/21/93	83.48	71.74	11.74	--	--	--	<50	1.0	<0.5	9.0	<0.5	--	--
01/05/94	83.48	72.30	11.18	--	--	--	<50	0.7	<0.5	<0.5	0.9	--	--
04/08/94	83.48	72.42	11.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	83.48	71.80	11.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/04/94	83.48	72.29	11.19	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-2 (cont)													
10/05/94	83.48	71.79	11.69	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	83.48	74.26	9.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	83.48	73.62	9.86	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	83.48	72.74	10.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	83.48	72.26	11.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	83.48	73.74	9.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	83.48	73.52	9.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	83.48	72.57	10.91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	83.48	72.41	11.07	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	83.48	75.18	8.30	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	3.4	--
04/01/97	83.48	72.90	10.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	83.48	72.58	10.90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	83.48	72.52	10.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	83.48	74.73	8.75	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	83.48	73.66	9.82	--	--	--	89	3.0	5.4	4.1	21	<2.5	--
07/02/98	83.48	72.74	10.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	83.48	72.43	11.05	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	83.48	73.09	10.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	83.48	72.61	10.87	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	83.48	72.89	10.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/05/00	83.48	72.84	10.64	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
01/15/01	83.48	73.77	9.71	0.00	--	--	555[6]	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	83.48	73.02	10.46	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
02/28/02	83.48	73.49	9.99	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	83.48	72.98	10.50	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
01/01/03	83.48	75.33	8.15	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/14/03[8]	83.48	72.96	10.52	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/12/04[8]	83.48	74.31	9.17	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/04[8]	83.48	72.85	10.63	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	83.48	74.36	9.12	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05[8]	83.48	73.56	9.92	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/24/06[8]	83.48	74.33	9.15	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06[8]	83.48	73.03	10.45	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/23/07[8]	83.48	73.37	10.11	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/24/07[8]	83.48	72.90	10.58	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/22/08[8]	83.48	73.85	9.63	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-2 (cont)													
07/22/08[8]	83.48	73.08	10.40	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
01/13/09[8]	83.48	73.10	10.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	83.48	72.93	10.55	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	86.04	76.38	9.66	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	86.04	76.09	9.95	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/25/11[8]	86.04	76.68	9.36	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	**86.04**	**76.14**	**9.90**	**0.00**	**SAMPLED ANNUALLY**		--	--	--	--	--	--	--
MW-3													
12/22/83	84.36	72.78	11.58	--	--	--	--	--	--	--	--	--	--
12/30/83	84.36	73.19	11.17	--	--	--	--	--	--	--	--	--	--
03/12/90	84.36	72.22	12.14	--	--	--	47,000	1,000	9,900	1,700	9,800	--	--
03/25/90	84.38	71.81	12.55	--	--	--	--	--	--	--	--	--	--
10/18/90	84.38	--	--	--	--	--	--	--	--	--	--	--	--
10/31/90	84.38	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	84.38	70.76	13.62	--	--	--	--	--	--	--	--	--	--
02/08/91	84.38	72.20	12.18	--	--	--	58,000	4,900	5,200	9,500	2,000	--	--
05/08/91	84.38	71.86	12.52	--	--	--	50,000	2,100	1,400	2,000	9,400	--	--
08/12/91	84.38	71.11	13.27	--	--	--	15,000	1,300	160	920	1,900	--	--
11/07/91	84.38	71.57	12.81	--	--	--	26,000	1,000	310	1,900	5,900	--	--
02/05/92	84.38	71.91	12.47	--	--	--	35,000	2,800	1,300	1,500	4,700	--	--
05/13/92	84.38	71.76	12.62	--	--	--	47,000	1,500	1,200	1,100	4,800	--	--
07/17/92	84.38	71.25	13.13	--	--	--	15,000	120	11	88	140	--	--
10/05/92	84.38	70.95	13.62	0.24	--	--	--	--	--	--	--	--	--
11/11/92	84.38	71.63	12.89	0.17	--	--	--	--	--	--	--	--	--
11/17/92	84.38	71.54	12.89	0.06	--	--	--	--	--	--	--	--	--
11/24/92	84.38	71.56	12.86	0.05	--	--	--	--	--	--	--	--	--
12/01/92	84.38	71.48	12.92	0.03	--	--	--	--	--	--	--	--	--
12/29/92	84.38	73.14	11.24	Sheen	--	--	--	--	--	--	--	--	--
01/05/93	84.38	73.23	11.15	Sheen	--	--	--	--	--	--	--	--	--
01/08/93	84.38	74.28	10.10	--	--	--	250,000	5,000	17,000	5,500	28,000	--	--
02/02/93	84.38	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	84.38	72.48	11.91	0.01	--	--	--	--	--	--	--	--	--
08/06/93	84.38	71.49	12.90	0.01	--	--	150,000	3,800	6,600	3,700	17,000	--	--
10/21/93	84.38	71.41	12.97	--	--	--	22,000	2,300	1,700	1,400	5,100	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3 (cont)													
01/05/94	84.38	71.96	12.42	--	--	--	37,000	1,600	1,100	1,300	6,500	--	--
04/08/94	84.38	72.51	11.87	--	--	--	16,000	250	310	500	2,500	--	--
07/06/94	84.38	71.64	12.74	--	--	--	43,000	660	320	1,900	6,400	--	--
08/04/94	84.38	71.71	12.67	--	--	--	--	--	--	--	--	--	--
10/05/94	84.38	71.43	12.95	--	--	--	12,000	280	90	480	370	--	--
01/18/95	84.38	73.72	10.66	--	--	--	20,000	200	230	700	3,500	--	--
04/07/95	84.38	72.84	11.54	--	--	--	22,000	120	120	810	4,400	--	--
07/06/95	84.38	71.99	12.39	--	--	--	15,000	110	<50	630	2,100	--	--
10/11/95	84.38	72.07	12.31	--	--	--	8,600	24	<10	360	560	1,100	--
01/17/96	84.38	73.68	10.70	--	--	--	9,300	<50	<50	230	1,100	2,300	--
04/05/96	84.38	73.35	11.03	--	--	--	8,700	16	<10	110	650	990	--
07/23/96	84.38	72.38	12.00	--	--	--	5,400	20	<5.0	190	480	2,300	--
10/02/96	84.38	72.20	12.18	--	--	--	6,200	43	<20	130	140	2,800	--
01/23/97	84.38	75.12	9.26	--	--	--	5,600	<5.0	<5.0	39	160	550	--
04/01/97	84.38	72.75	11.63	--	--	--	6,900	17	<10	150	330	3,900	--
07/09/97	84.38	72.38	12.00	--	--	--	5,300	31	<5.0	100	180	2,300	--
10/07/97	84.38	72.27	12.11	--	--	--	2,400	15	<2.0	30	15	900	--
01/22/98	84.38	74.73	9.65	--	--	--	3,200	2.5	7.9	70	220	660	--
04/02/98	84.38	73.49	10.89	--	--	--	1,300	14	9.7	25	63	430	--
07/02/98	84.38	72.69	11.69	--	--	--	750	6.9	<5.0	18	9.1	370	--
10/02/98	84.38	72.23	12.15	--	--	--	1,400	5.3	0.73	18	6.6	900	--
01/18/99	84.38	74.05	10.33	--	--	--	1,270	<1.0	<1.0	7.95	<1.0	100/99.7[2]	--
07/22/99	84.38	72.08	12.30	--	--	--	2,240	<1.0	<1.0	29.4	13.7	189	--
01/17/00	84.38	72.78	11.60	--	--	--	848	6.72	2.53	5.02	2.49	90	--
07/05/00	84.38	72.67	11.71	0.00	--	--	90[3]	5.3	<0.50	0.70	<0.50	770	--
01/15/01	84.38	73.93	10.45	0.00	--	--	206	<0.500	<0.500	<0.500	1.09	4.04	--
07/03/01	84.38	72.62	11.76	0.00	--	--	<50	0.53	<0.50	<0.50	1.1	20	--
02/28/02	84.38	73.29	11.09	0.00	--	--	170	<1.0	<1.0	<1.0	1.6	45	--
07/08/02	84.38	71.38	13.00	0.00	--	--	430	0.60	<0.50	0.79	<1.5	42	--
01/01/03	84.38	74.89	9.49	0.00	--	--	140	<0.50	<0.50	<0.50	<1.5	6.1	--
07/14/03[8]	84.38	71.36	13.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	43	--
01/12/04[8]	84.38	74.00	10.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/27/04[8]	84.38	72.60	11.78	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	41	--
01/25/05[8]	84.38	73.96	10.42	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	27	--
07/26/05[8]	84.38	72.17	12.21	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	12	--
01/24/06[8]	84.38	73.99	10.39	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3 (cont)													
07/25/06[8]	84.38	72.76	11.62	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	23	--
01/23/07[8]	84.38	73.44	10.94	0.00	--	--	130	<0.5	<0.5	<0.5	<0.5	2	--
07/24/07[8]	84.38	74.10	10.28	0.00	--	--	210	<0.5	<0.5	<0.5	<0.5	20	--
01/22/08[8]	84.38	73.83	10.55	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08[8]	84.38	72.40	11.98	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	7	--
01/13/09[8]	84.38	72.82	11.56	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	10	--
07/14/09	84.38	72.25	12.13	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	86.80	75.93	10.87	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	14	--
07/13/10	86.80	75.37	11.43	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/25/11[8]	86.80	76.19	10.61	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	4	--
07/12/11	**86.80**	**75.65**	**11.15**	**0.00**	**SAMPLED ANNUALLY**		**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-4													
10/18/90	84.25	68.50	15.75	--	--	--	--	--	--	--	--	--	--
10/31/90	84.25	70.35	13.90	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--	--
11/16/90	84.25	70.00	14.25	--	--	--	--	--	--	--	--	--	--
02/08/91	84.25	71.93	12.32	--	--	--	60	17	2.0	12	<0.5	--	--
05/08/91	84.25	72.02	12.23	--	--	--	65	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	84.25	70.32	13.93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	84.25	70.83	13.42	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	84.25	71.42	12.83	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	84.25	70.97	13.28	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/92	84.25	70.02	14.23	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	84.25	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	84.25	74.09	10.16	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	84.25	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	84.25	72.21	12.04	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/06/93	84.25	70.34	13.91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	84.25	70.26	13.99	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-4 (cont)													
01/05/94	84.25	71.30	12.95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/08/94	84.25	71.31	12.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	84.25	70.57	13.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/04/94	84.25	70.71	13.54	--	--	--	--	--	--	--	--	--	--
10/05/94	84.25	70.65	13.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	84.25	74.77	9.48	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	84.25	72.70	11.55	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	84.25	71.25	13.00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	84.25	73.17	11.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	84.25	72.65	11.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	84.25	70.86	13.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	84.25	74.72	9.53	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	84.25	71.68	12.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	84.25	70.64	13.61	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	84.25	70.51	13.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	84.25	74.90	9.35	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	84.25	73.00	11.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/02/98	84.25	71.84	12.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	84.25	71.00	13.25	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	84.25	72.65	11.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	84.25	70.70	13.55	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	84.25	71.32	12.93	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/05/00	84.25	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	84.25	72.73	11.52	0.00	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	84.25	71.30	12.95	0.00	--	--	--	--	--	--	--	--	--
02/28/02	84.25	72.54	11.71	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/01/03	84.24	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/14/03	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/04[8]	84.24	73.23	11.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	84.24	73.28	10.96	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	84.24	73.36	10.88	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-4 (cont)													
01/23/07[8]	84.24	71.85	12.39	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/24/07	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	84.24	72.77	11.47	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	84.24	71.56	12.68	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	87.29	76.14	11.15	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	87.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	87.29	76.21	11.08	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	**87.29**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-5													
10/18/90	81.95	71.17	10.78	--	--	--	--	--	--	--	--	--	--
10/31/90	81.95	71.32	10.63	--	--	--	110	<0.5	<0.5	<0.5	<0.5	--	--
11/16/90	81.95	71.27	10.68	--	--	--	--	--	--	--	--	--	--
02/08/91	81.95	72.78	9.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/08/91	81.95	73.27	8.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	81.95	71.62	10.33	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	81.95	72.19	9.76	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	81.95	72.48	9.47	--	--	--	69	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	81.95	72.25	9.70	--	--	--	74	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	81.95	71.74	10.21	--	--	--	880	2.6	<1.2	4.6	11	--	--
10/05/92	81.95	71.34	10.61	--	--	--	120	<0.5	<0.5	0.6	4.9	--	--
11/11/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	81.95	74.61	7.34	--	--	--	61	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
08/06/93	81.95	71.99	9.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	81.95	71.89	10.06	--	--	--	<50	<0.5	<0.5	2.0	4.0	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-5 (cont)													
01/05/94	81.95	72.52	9.43	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/08/94	81.95	72.56	9.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	81.95	72.19	9.76	--	--	--	<50	0.6	<0.5	<0.5	<0.5	--	--
08/04/94	81.95	72.13	9.82	--	--	--	--	--	--	--	--	--	--
10/05/94	81.95	71.89	10.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
04/07/95	81.95	73.31	8.64	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	81.95	72.52	9.43	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	81.95	72.12	9.83	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	81.95	73.63	8.32	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	81.95	73.23	8.72	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	81.95	72.25	9.70	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	81.95	72.06	9.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	81.95	74.72	7.23	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/09/97	81.95	72.27	9.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	81.95	72.14	9.81	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	81.95	74.80	7.15	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/02/98	81.95	72.43	9.52	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	81.95	72.14	9.81	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	81.95	73.11	8.84	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	81.95	72.01	9.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	81.95	72.70	9.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/05/00	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	81.95	73.41	8.54	0.00	--	--	423[6]	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	81.95	72.62	9.33	0.00	--	--	--	--	--	--	--	--	--
02/28/02	81.95	73.24	8.71	0.00	--	--	270	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/01/03	81.95	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/14/03	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/04[8]	81.95	73.91	8.04	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	81.95	73.94	8.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	81.95	73.89	8.06	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-5 (cont)													
07/25/06	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/23/07	81.95	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/24/07	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	81.95	73.50	8.45	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	81.95	71.69	10.26	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	84.93	76.45	8.48	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	84.93	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	84.93	76.69	8.24	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	**84.93**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-6													
10/18/90	80.60	70.81	9.79	--	--	--	--	--	--	--	--	--	--
10/31/90	80.60	70.91	9.69	--	--	--	<50	<0.5	<0.5	<0.5	3.0	--	--
11/16/90	80.60	70.86	9.74	--	--	--	--	--	--	--	--	--	--
02/08/91	80.60	--	--	--	--	--	--	--	--	--	--	--	--
05/08/91	80.60	71.06	9.54	--	--	--	56	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	80.60	71.10	9.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	80.60	71.71	8.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	80.60	72.01	8.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
07/17/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
10/05/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/11/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	80.60	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	80.60	--	--	--	--	--	--	--	--	--	--	--	--
02/02/93	80.60	72.89	7.71	--	--	--	<50	2.1	<0.5	<0.5	2.2	--	--
04/14/93	80.60	72.41	8.19	--	--	--	<50	1.0	<0.5	<0.5	<0.5	--	--
08/06/93	80.60	71.52	9.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	80.60	71.46	9.14	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-6 (cont)													
01/05/94	80.60	72.06	8.54	--	--	--	<50	4.0	<0.5	<0.5	<0.5	--	--
04/08/94	80.60	--	--	--	--	--	--	--	--	--	--	--	--
07/06/94	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
08/04/94	80.60	71.66	8.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
01/18/95	80.60	73.50	7.10	--	--	--	<50	0.69	<0.5	<0.5	0.57	--	--
04/07/95	80.60	72.77	7.83	--	--	--	<50	1.8	<0.5	<0.5	<0.5	--	--
07/06/95	80.60	72.03	8.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	80.60	71.54	9.06	--	--	--	<125	<1.2	<1.2	<1.2	<1.2	540	--
01/17/96	80.60	73.20	7.40	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	180	--
04/05/96	80.60	72.70	7.90	--	--	--	<125	1.4	<1.2	<1.2	<1.2	700	--
07/23/96	80.60	71.86	8.74	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	540	--
10/02/96	80.60	71.62	8.98	--	--	--	<100	<1.0	<1.0	<1.0	1.8	910	--
01/23/97	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
04/01/97	80.60	72.22	8.38	--	--	--	<250	<2.5	<2.5	<2.5	<2.5	640	--
07/09/97	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
10/07/97	80.60	71.71	8.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	640	--
01/22/98	80.60	73.90	6.70	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	200	--
04/02/98	80.60	72.79	7.81	--	--	--	<250	<2.5	<2.5	<2.5	<2.5	480	--
07/02/98	80.60	71.62	8.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	420	--
10/02/98	80.60	71.68	8.92	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	270	--
01/18/99	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/22/99	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
01/17/00	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/05/00	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	80.60	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--
07/03/01	80.60	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--
02/28/02	80.60	72.70	7.90	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	55	--
07/08/02	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/01/03	80.60	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/14/03	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/04[8]	80.60	73.23	7.37	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/25/05[8]	80.60	73.17	7.43	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	3	--
07/26/05	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	80.60	73.20	7.40	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-6 (cont)													
01/23/07[8]	80.60	72.53	8.07	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	8	--
07/24/07	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	80.60	73.07	7.53	0.00	--	--	<50	<0.5	<0.5	1	2	4	--
07/22/08	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	80.60	70.73	9.87	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	6	--
07/14/09	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	83.63	75.71	7.92	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	83.63	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	83.63	76.05	7.58	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	**83.63**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-7													
03/08/94	86.36	74.99	11.37	--	<10	4,100	1,200	440	31	73	200	--	--
07/06/94	86.36	--	--	--	--	--	--	--	--	--	--	--	--
08/04/94	86.36	73.86	12.50	--	--	--	120	15	<0.5	3.8	1.8	--	--
10/05/94	86.36	73.99	12.37	--	--	--	150	1.2	<0.5	1.2	1.7	--	--
01/18/95	86.36	74.82	11.54	--	--	--	260	11	<1.0	17	6.8	--	--
04/07/95	86.36	75.63	10.73	--	--	--	230	<0.5	<0.5	25	0.93	--	--
07/06/95	86.36	74.36	12.00	--	--	--	320	<1.0	<1.0	<1.0	<1.0	--	6,900
10/11/95	86.36	73.56	12.80	--	--	2,300[1]	<50	<0.5	<0.5	<0.5	<0.5	120	--
01/17/96	86.36	75.90	10.46	--	--	1,700	<50	<0.5	<0.5	<0.5	<0.5	460	--
04/05/96	86.36	76.56	9.80	--	--	590	130	<0.5	<0.5	<0.5	<0.5	120	--
07/23/96	86.36	74.57	11.79	--	--	820	<500	<5.0	<5.0	<5.0	<0.5	1,200	--
10/02/96	86.36	73.10	13.26	--	--	1,500	<100	<1.0	<1.0	<1.0	<1.0	360	--
01/23/97	86.36	77.64	8.72	--	--	<500	<100	<1.0	<1.0	<1.0	<1.0	490	--
04/01/97	86.36	75.09	11.27	--	--	1,600	<250	<2.5	<2.5	<2.5	<2.5	1,200	--
07/09/97	86.36	73.92	12.44	--	--	5,700	<250	5.9	<2.5	<2.5	<2.5	1,200	--
10/07/97	86.36	73.44	12.92	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	240	--
01/22/98	86.36	75.14	11.22	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	400	--
04/02/98	86.36	75.67	10.69	--	--	<500	56	<0.5	<0.5	<0.5	<0.5	290	--
07/02/98	86.36	75.94	10.42	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	380	--
10/02/98	86.36	74.14	12.22	--	--	1,700	<50	<0.5	<0.5	<0.5	<1.5	660	--
01/18/99	86.36	75.36	11.00	--	--	543	<100	<1.0	<1.0	<1.0	<1.0	281/296[2]	--
07/22/99	86.36	74.06	12.30	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	155	--
01/17/00	86.36	75.84	10.52	--	256[1]	1,040	<50	<0.5	<0.5	<0.5	<0.5	104	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-7 (cont)													
07/05/00	86.36	74.23	12.13	0.00	--	1,400[4]	<50	<0.50	<0.50	<0.50	<0.50	110	--
01/15/01	86.36	75.23	11.13	0.00	--	2,700	<50.0	<0.500	<0.500	<0.500	<0.500	84.3	--
07/03/01	86.36	74.47	11.89	0.00	--	760[7]	<50	<0.50	<0.50	<0.50	<0.50	27	--
02/28/02	86.36	75.26	11.10	0.00	--	<1,000	<50	<0.50	<0.50	<0.50	<1.5	66	--
07/08/02	86.36	74.05	12.31	0.00	--	1,400	<50	<0.50	<0.50	<0.50	<1.5	49	--
01/01/03	86.36	76.65	9.71	0.00	--	1,300	<50	<0.50	<0.50	<0.50	<1.5	35	--
07/14/03[8]	86.36	74.01	12.35	0.00	--	130	<50	<0.5	<0.5	<0.5	<0.5	20	--
01/12/04[8]	86.36	75.66	10.70	0.00	--	250	<50	<0.5	<0.5	<0.5	<0.5	27	--
07/27/04[8]	86.36	74.08	12.28	0.00	--	730	<50	<0.5	<0.5	<0.5	<0.5	44	--
01/25/05[8]	86.36	75.56	10.80	0.00	--	980	<50	<0.5	<0.5	<0.5	<0.5	34	--
07/26/05[8]	86.36	73.69	12.67	0.00	--	1,100	<50	<0.5	<0.5	<0.5	<0.5	19	-
01/24/06[8]	86.36	75.60	10.76	0.00	--	230	<50	<0.5	<0.5	<0.5	<0.5	18	--
07/25/06[8]	86.36	74.17	12.19	0.00	--	160	<50	<0.5	<0.5	<0.5	<0.5	19	--
01/23/07[8]	86.36	74.60	11.76	0.00	--	2,100	<50	<0.5	<0.5	<0.5	<0.5	15	--
07/24/07[8]	86.36	73.91	12.45	0.00	--	3,100	<50	<0.5	<0.5	<0.5	<0.5	24	--
01/22/08[8]	86.36	75.36	11.00	0.00	--	4,400	<50	<0.5	<0.5	<0.5	<0.5	12	--
07/22/08[8]	86.36	73.38	12.98	0.00	--	200	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/13/09[8]	86.36	73.85	12.51	0.00	--	1,400	<50	<0.5	<0.5	<0.5	<0.5	7	--
07/14/09[8]	86.36	73.18	13.18	0.00	--	1,000	<50	<0.5	<0.5	<0.5	<0.5	10	--
01/12/10[8]	86.36	75.01	11.35	0.00	--	1,500	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/13/10[8]	86.36	73.72	12.64	0.00	--	1,100	<50	<0.5	<0.5	<0.5	<0.5	4	--
01/25/11[8]	86.36	75.30	11.06	0.00	--	2,300	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/12/11[8]	**86.36**	**74.61**	**11.75**	**0.00**	**--**	**1,800**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2**	**--**
MW-8													
03/08/94	85.93	75.06	10.87	--	<10	<100	28,000	2,900	1,300	1,200	6,800	--	--
07/06/94	85.93	--	--	--	--	--	--	--	--	--	--	--	--
08/04/94	85.93	73.77	12.16	--	--	--	22,000	3,000	260	870	4,400	--	--
10/05/94	85.93	72.71	13.22	--	--	--	12,000	1,800	34	4.6	890	--	--
01/18/95	85.93	75.51	10.42	--	--	--	19,000	1,000	65	1,100	3,500	--	--
04/07/95	85.93	75.48	10.45	--	--	--	14,000	310	<25	720	1,700	--	--
07/06/95	85.93	74.30	11.63	--	--	--	19,000	280	<50	1,200	2,600	--	--
10/11/95	85.93	73.51	12.42	--	--	--	6,100	140	5.5	320	280	1,200	--
01/17/96	85.93	75.95	9.98	--	--	<500	12,000	86	<20	590	1,400	1,100	--
04/05/96	85.93	75.60	10.33	--	--	<500	7,500	180	23	410	480	560	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-8 (cont)													
07/23/96	85.93	74.56	11.37	--	--	<500	3,800	47	<5.0	350	84	1,800	--
10/02/96	85.93	73.90	12.03	--	--	<500	4,400	65	<5.0	140	28	1,500	--
01/23/97	85.93	77.73	8.20	--	--	<500	3,800	36	5.9	140	36	910	--
04/01/97	85.93	75.80	10.13	--	--	<500	6,100	43	<20	380	76	1,800	--
07/09/97	85.93	73.77	12.16	--	--	<500	7,300	48	<25	120	<25	2,400	--
10/07/97	85.93	73.77	12.16	--	--	<500	3,100	<10	<10	67	<10	1,400	--
01/22/98	85.93	75.83	10.10	--	--	<500	1,900	5.5	8.3	120	17	780	--
04/02/98	85.93	75.55	10.38	--	--	<500	2,900	43	19	110	<10	800	--
07/02/98	85.93	74.78	11.15	--	--	<500	5,000	31	<10	120	15	780	--
10/02/98	85.93	74.03	11.90	--	--	1,200[1]	2,200	6.5	<0.5	21	2.6	140	--
01/18/99	85.93	75.12	10.81	--	554	<250	2,870	<5.0	<5.0	9.02	<5.0	476/478[2]	--
07/22/99	85.93	74.38	11.55	--	--	--	2,190	<1.0	<1.0	3.51	1.61	228	--
01/17/00	85.93	75.06	10.87	--	955[1]	<500	1,220	1.3	1.56	1.56	1.87	344	--
07/05/00	85.93	74.55	11.38	0.00	--	260[5]	1,900[3]	15	6.6	<5.0	<5.0	170	--
01/15/01	85.93	75.59	10.34	0.00	--	<250	2,820	<1.00	<1.00	5.13	3.90	110	--
07/03/01	85.93	74.77	11.16	0.00	--	<250	1,900[3]	6.0	<5.0	<5.0	<5.0	46	--
02/28/02	85.93	75.26	10.67	0.00	--	<1,000	1,500	4.6	<2.0	0.80	2.2	56	--
07/08/02	85.93	74.30	11.63	0.00	--	<400	2,500	4.2	0.85	0.68	2.5	46	--
01/01/03	85.93	76.01	9.92	0.00	--	<400	1,300	2.1	0.66	1.1	2.1	45	--
07/14/03[8]	85.93	74.27	11.66	0.00	--	160	1,900	<0.5	<0.5	<0.5	<0.5	58	--
01/12/04[8]	85.93	75.92	10.01	0.00	--	<40	1,400	<0.5	<0.5	<0.5	<0.5	110	--
07/27/04[8]	85.93	74.33	11.60	0.00	--	<40	1,100	<0.5	<0.5	<0.5	<0.5	89	--
01/25/05[8]	85.93	75.96	9.97	0.00	--	130	900	<0.5	<0.5	<0.5	<0.5	52	--
07/26/05[8]	85.93	74.08	11.85	0.00	--	99	580	<0.5	<0.5	<0.5	<0.5	23	--
01/24/06[8]	85.93	76.06	9.87	0.00	--	69	620	<0.5	<0.5	<0.5	<0.5	31	--
07/25/06[8]	85.93	74.77	11.16	0.00	--	<40	420	<0.5	<0.5	<0.5	<0.5	20	--
01/23/07[8]	85.93	74.78	11.15	0.00	--	200	710	<0.5	<0.5	<0.5	<0.5	26	--
07/24/07[8]	85.93	74.15	11.78	0.00	--	730	560	<0.5	<0.5	<0.5	<0.5	30	--
01/22/08[8]	85.93	75.59	10.34	0.00	--	500	520	<0.5	<0.5	<0.5	<0.5	27	--
07/22/08[8]	85.93	73.86	12.07	0.00	--	90	330	<0.5	<0.5	<0.5	<0.5	21	--
01/13/09[8]	85.93	74.35	11.58	0.00	--	62	360	<0.5	<0.5	<0.5	<0.5	14	--
07/14/09[8]	85.93	73.68	12.25	0.00	--	90	500	<0.5	<0.5	<0.5	<0.5	10	--
01/12/10[8]	85.95	75.50	10.45	0.00	--	100	370	<0.5	<0.5	<0.5	<0.5	8	--
07/13/10[8]	85.95	74.33	11.62	0.00	--	73	260	<0.5	<0.5	<0.5	<0.5	6	--
01/25/11[8]	85.95	75.88	10.07	0.00	--	<40	200	<0.5	<0.5	<0.5	<0.5	4	--
07/12/11[8]	**85.95**	**75.25**	**10.70**	**0.00**	**--**	**56**	**120**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
TRIP BLANK													
03/12/90	--	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--
02/08/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/08/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/92	--	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/92	--	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	--	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/06/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/05/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/08/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/04/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/05/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/23/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
TRIP BLANK (cont)													
10/07/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/05/00	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
01/15/01	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA													
02/28/02	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
01/01/03	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/14/03[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/12/04[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/04[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/24/06[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/23/07[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/24/07[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/22/08[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/13/09[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED													

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to July 5, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
SPHT = Separate Phase Hydrocarbon Thickness
TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics
MO = Motor Oil
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes

MTBE = Methyl Tertiary Butyl Ether
TOG = Total Oil & Grease
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on October 27, 2009, by Virgil Chavez Land Surveying. The benchmark for this survey was a cut square on top of easterly curb of Broadway, opposite 5718 Broadway. Benchmark Elevation = 180.06 feet. Vertical Datum is NGVD 29 from GPS observations.

1 Laboratory report indicates an unidentified hydrocarbon.

2 Confirmation run.

3 Laboratory report indicates gasoline C6-C12.

4 Laboratory report indicates motor oil C16-C36.

5 Laboratory report indicates unidentified hydrocarbons C9-C24.

6 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. The pattern more closely resembles that of a heavier fuel.

7 Laboratory report indicates unidentified hydrocarbons >C16.

8 BTEX and MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1	07/14/03	<50	--	5	--	--	--
	01/12/04	<50	--	61	--	--	--
	07/27/04	<50	--	54	--	--	--
	01/25/05	<50	--	5	--	--	--
	07/26/05	<50	--	25	--	--	--
	01/24/06	<50	--	25	--	--	--
	07/25/06	<50	--	14	--	--	--
	01/23/07	<50	--	17	--	--	--
	07/24/07	<50	--	7	--	--	--
	01/22/08	<50	--	8	--	--	--
	07/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	2	--	--	--
	01/12/10	--	--	15	--	--	--
	01/25/11	--	--	5	--	--	--
MW-2	07/14/03	<50	--	<0.5	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	07/27/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	07/26/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	07/25/06	<50	--	<0.5	--	--	--
	01/23/07	<50	--	<0.5	--	--	--
	07/24/07	<50	--	<0.5	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	07/22/08	<50	--	2	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
MW-3	07/14/03	<50	--	43	--	--	--
	01/12/04	<50	--	2	--	--	--
	07/27/04	<50	--	41	--	--	--
	01/25/05	<50	--	27	--	--	--
	07/26/05	<50	--	12	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-3 (cont)	01/24/06	<50	--	0.8	--	--	--
	07/25/06	<50	--	23	--	--	--
	01/23/07	<50	--	2	--	--	--
	07/24/07	<50	--	20	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	07/22/08	<50	--	7	--	--	--
	01/13/09	<50	--	10	--	--	--
	01/12/10	--	--	14	--	--	--
	01/25/11	--	--	4	--	--	--
MW-4	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	01/23/07	<50	--	<0.5	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
MW-5	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	01/23/07	INACCESSIBLE - VEHICLE PARKED OVER WELL			--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
MW-6	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	25	--	--	--
	01/25/05	<50	--	3	--	--	--
	01/24/06	<50	--	<0.5	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-6 (cont)	01/23/07	<50	--	8	--	--	--
	01/22/08	<50	--	4	--	--	--
	01/13/09	<50	--	6	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
MW-7	07/14/03	<50	--	20	--	--	--
	01/12/04	<50	--	27	--	--	--
	07/27/04	<50	--	44	--	--	--
	01/25/05	<50	--	34	--	--	--
	07/26/05	<50	--	19	--	--	--
	01/24/06	<50	--	18	--	--	--
	07/25/06	<50	--	19	--	--	--
	01/23/07	<50	--	15	--	--	--
	07/24/07	<50	--	24	--	--	--
	01/22/08	<50	--	12	--	--	--
	07/22/08	<50	--	25	--	--	--
	01/13/09	<50	--	7	--	--	--
	07/14/09	--	--	10	--	--	--
	01/12/10	--	--	5	--	--	--
	07/13/10	--	--	4	--	--	--
	01/25/11	--	--	2	--	--	--
	07/12/11	--	--	**2**	--	--	--
MW-8	07/14/03	<50	--	58	--	--	--
	01/12/04	<50	--	110	--	--	--
	07/27/04	<50	--	89	--	--	--
	01/25/05	<50	--	52	--	--	--
	07/26/05	<50	--	23	--	--	--
	01/24/06	<50	--	31	--	--	--
	07/25/06	<50	--	20	--	--	--
	01/23/07	<50	--	26	--	--	--
	07/24/07	<50	--	30	--	--	--
	01/22/08	<50	--	27	--	--	--
	07/22/08	<50	--	21	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-8 (cont)	01/13/09	<50	--	14	--	--	--
	07/14/09	--	--	10	--	--	--
	01/12/10	--	--	8	--	--	--
	07/13/10	--	--	6	--	--	--
	01/25/11	--	--	4	--	--	--
	07/12/11	--	--	3	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHODS:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 Job Number: 386506
Site Address: 5509 Martin Luther King Way Event Date: 9/12/11 (inclusive)
City: Oakland, CA Sampler: HAIG K.

Well ID MW-1 Date Monitored: 9/12/11
Well Diameter 2 (3) in.
Total Depth 19.93 ft.
Depth to Water 9.55 ft. ☐ Check if water column is less then 0.50 ft.

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

10.18 xVF _____ = _____ x3 case volume = Estimated Purge Volume: N/A gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: N/A

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

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

M / O

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 Job Number: 386506
Site Address: 5509 Martin Luther King Way Event Date: 7/12/11 (inclusive)
City: Oakland, CA Sampler: HAIG K.

Well ID MW-2 Date Monitored: 7/12/11
Well Diameter 2 (3) in.
Total Depth 18.85 ft.
Depth to Water 9.90 ft.

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

☐ Check if water column is less then 0.50 ft.

8.95 xVF _____ = _____ x3 case volume = Estimated Purge Volume: N/A gal.

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

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

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

M / O

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 Job Number: 386506
Site Address: 5509 Martin Luther King Way Event Date: 7/12/11 (inclusive)
City: Oakland, CA Sampler: HAIG K.

Well ID MW-3 Date Monitored: 7/12/11
Well Diameter 2 (3) in.
Total Depth 19.48 ft.
Depth to Water 11.15 ft.
8.33 xVF _____ = _____ x3 case volume = Estimated Purge Volume: N/A gal.

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

☐ Check if water column is less then 0.50 ft.

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

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

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

M / O

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 7/12/11 (inclusive)
City: Oakland, CA | Sampler: HAIG K.

Well ID: MW-7
Well Diameter: 2/3 in.
Total Depth: 19.46 ft.
Depth to Water: 11.75 ft.
Date Monitored: 7/12/11

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

☐ Check if water column is less then 0.50 ft.

7.71 xVF 0.17 = 1.31 x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.29

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

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

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0905
Sample Time/Date: 0925 7/12/11
Approx. Flow Rate: gpm.
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 12.62

Weather Conditions: CLOUDY
Water Color: CLOUDY Odor: (Y) N MODERATE
Sediment Description: SILT

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0910	1.5	7.35	346	16.9		
0913	3	7.31	350	17.0		
0916	4	7.28	352	17.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 7/12/11 (inclusive)
City: Oakland, CA | Sampler: HAIG K.

Well ID: MW-8 | Date Monitored: 7/12/11
Well Diameter: (2)/ 3 in.
Total Depth: 17.12 ft.
Depth to Water: 10.70 ft. ☐ Check if water column is less then 0.50 ft.

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

6.42 xVF 0.17 = 1 x3 case volume = Estimated Purge Volume: 3 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.98

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

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

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

Start Time (purge): 0947 | Weather Conditions: CLOUDY
Sample Time/Date: 1010 / 7/12/11 | Water Color: CLEAR | Odor: (Y) N MODERATE
Approx. Flow Rate: gpm. | Sediment Description:
Did well de-water? NO | If yes, Time: Volume: gal. | DTW @ Sampling: 11.36

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O (mg/L)	ORP (mV)
0951	1	7.18	388	17.2		
0954	2	7.16	394	17.3		
0957	3	7.13	392	17.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

07211-02

For Lancaster Laboratories use only
Acct. #: 12099 Sample # 6342309-10 Group #: 007708

1255943

CRA MTI Project #: 61H-1960

Facility #: SS#9-1583 G-R#386506 Global ID#T0600100348
Site Address: 5509 MARTIN LUTHER KING WAY, OAKLAND, CA
Chevron PM: MTI Lead Consultant: CRAKJ Kiernan
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: HAIG KEVORK

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	Preservation Codes	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___ Method	Total Lead ___ Method	Dissolved Lead ___ Method	TPH-MO (8015)
MW-7	7/12/11	0925	X			X			8		X	X						X
MW-8	7/12/11	1010	X			X			8		X	X						X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☒ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required) EDF/EDD
QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	7/12/11	1134	Received by: A. Salazar 12JUL11	12JUL11	1134
Relinquished by: A. Salazar 12JUL11		1634	Received by: FEDEX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	7/13/11	0960
Temperature Upon Receipt 23.3 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

July 21, 2011

Project: 91583

Submittal Date: 07/13/2011
Group Number: 1255943
PO Number: 91583
Release Number: MTI
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
MW-7-W-110712 Grab Water	6342309
MW-8-W-110712 Grab Water	6342310

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

ELECTRONIC COPY TO	Gettler-Ryan, Inc.	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Valeria L. Tomayko
Principal Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: MW-7-W-110712 Grab Water
Facility# 91583 Job# 386506 MTI# 61H-1960 GRD
5509 Martin Luther-Oakland T0600100348 MW-7

LLI Sample # WW 6342309
LLI Group # 1255943
Account # 12099

Project Name: 91583

Collected: 07/12/2011 09:25 by HK

Submitted: 07/13/2011 09:50
Reported: 07/21/2011 16:51

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

15837

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
GC Extractable TPH	**SW-846 8015B modified**		ug/l	ug/l	
02500	Total TPH	n.a.	1,800	39	1
02500	TPH Motor Oil C16-C36	n.a.	1,800	39	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F111992AA	07/18/2011 05:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111992AA	07/18/2011 05:55	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11199A07A	07/18/2011 11:12	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11199A07A	07/18/2011 11:12	Laura M Krieger	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	111970002A	07/18/2011 21:58	Heather E Williams	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	111970002A	07/17/2011 11:30	Kathryn I DeHaven	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-8-W-110712 Grab Water
Facility# 91583 Job# 386506 MTI# 61H-1960 GRD
5509 Martin Luther-Oakland T0600100348 MW-8

LLI Sample # WW 6342310
LLI Group # 1255943
Account # 12099

Project Name: 91583

Collected: 07/12/2011 10:10 by HK

Submitted: 07/13/2011 09:50
Reported: 07/21/2011 16:51

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

15838

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	120	50	1
GC Extractable TPH	**SW-846 8015B modified**		ug/l	ug/l	
02500	Total TPH	n.a.	56	38	1
02500	TPH Motor Oil C16-C36	n.a.	56	38	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F111992AA	07/18/2011 06:16	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111992AA	07/18/2011 06:16	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11199A07A	07/18/2011 11:38	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11199A07A	07/18/2011 11:38	Laura M Krieger	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	111970002A	07/18/2011 22:23	Heather E Williams	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	111970002A	07/17/2011 11:30	Kathryn I DeHaven	1

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 07/21/11 at 04:51 PM

Group Number: 1255943

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F111992AA	Sample number(s): 6342309-6342310							
Benzene	N.D.	0.5	ug/l	94		79-120		
Ethylbenzene	N.D.	0.5	ug/l	90		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	84		76-120		
Toluene	N.D.	0.5	ug/l	90		79-120		
Xylene (Total)	N.D.	0.5	ug/l	89		80-120		
Batch number: 11199A07A	Sample number(s): 6342309-6342310							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	109	75-135	8	30
Batch number: 111970002A	Sample number(s): 6342309-6342310							
Total TPH	N.D.	40.	ug/l	95	104	60-120	9	20
TPH Motor Oil C16-C36	N.D.	40.	ug/l					

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: F111992AA	Sample number(s): 6342309-6342310 UNSPK: 6342310								
Benzene	96	96	80-126	0	30				
Ethylbenzene	96	95	71-134	1	30				
Methyl Tertiary Butyl Ether	85	85	72-126	0	30				
Toluene	92	92	80-125	0	30				
Xylene (Total)	92	92	79-125	0	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: UST VOCs by 8260B - Water
Batch number: F111992AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6342309	97	103	97	91
6342310	98	102	98	96
Blank	99	102	98	92

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 07/21/11 at 04:51 PM

Group Number: 1255943

Surrogate Quality Control

LCS	97	104	97	97
MS	97	105	98	101
MSD	98	103	97	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11199A07A

	Trifluorotoluene-F
6342309	100
6342310	99
Blank	102
LCS	113
LCSD	109
Limits:	63-135

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 111970002A

	Chlorobenzene	Orthoterphenyl
6342309	87	87
6342310	116	104
Blank	96	103
LCS	116	109
LCSD	103	118
Limits:	28-152	52-131

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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APPENDIX E

TREND GRAPHS AND DEGRADATION CALCULATIONS

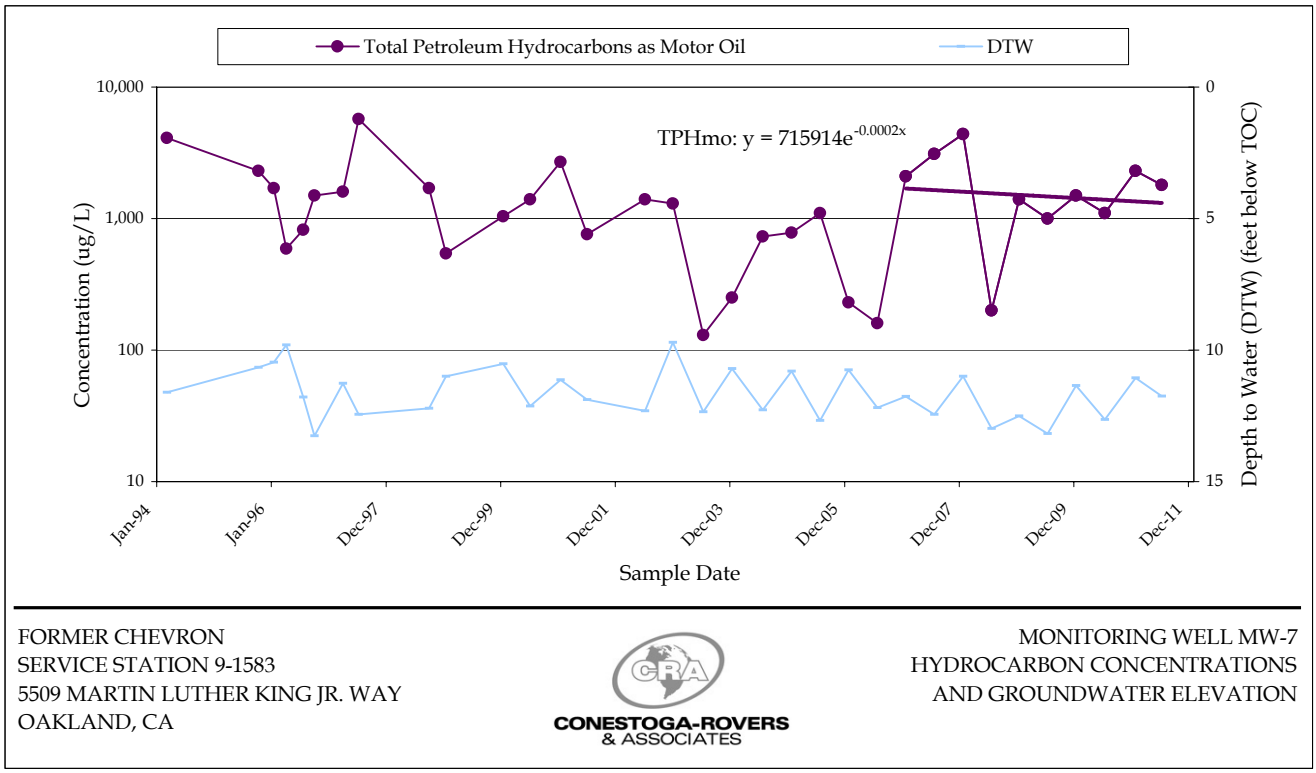
Predicted Time to Reach TPHmo ESL in Well MW-7

Former Chevron Service Station 9-1583, 5509 Martin Luther King Jr. Way, Oakland, CA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L; a = decay constant
b = concentration at time (x); x = time (x) in days

		Constituent: Total Petroleum Hydrocarbons as Motor Oil (TPHmo)
Given		
Environmental Screening Level (ESL):	y	100
Constant:	b	7.16E+05
Constant:	a	-1.55E-04
Starting date for current trend:		1/23/2007
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	12.27
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Feb 2057



FORMER CHEVRON
SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CA

CONESTOGA-ROVERS & ASSOCIATES

MONITORING WELL MW-7
HYDROCARBON CONCENTRATIONS
AND GROUNDWATER ELEVATION

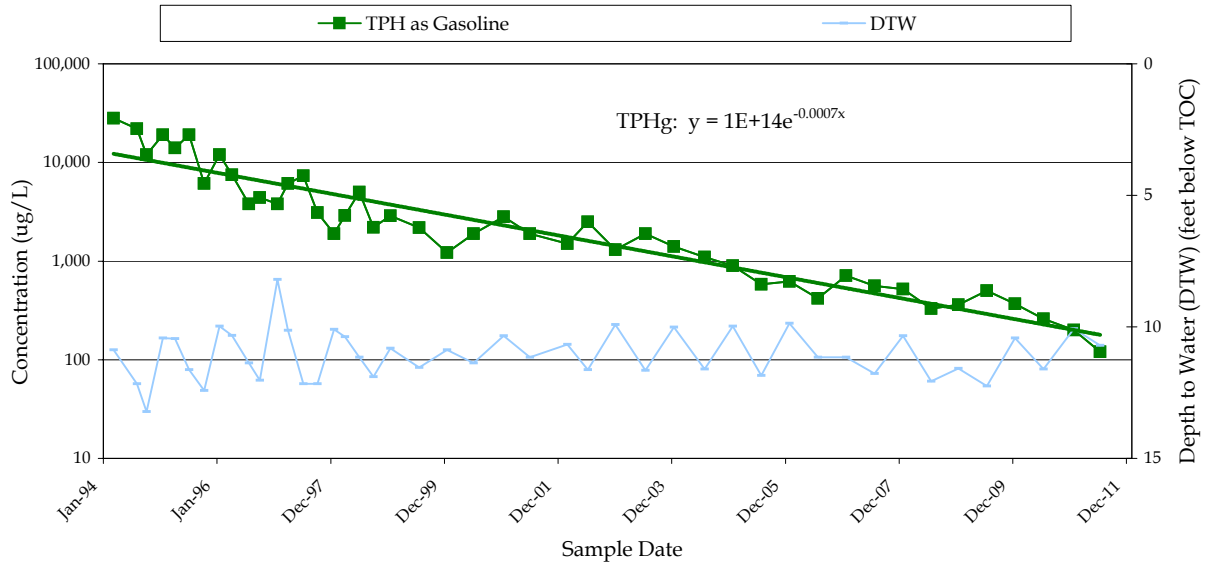
Predicted Time to Reach TPHg ESL in Well MW-8

Former Chevron Service Station 9-1583, 5509 Martin Luther King Jr. Way, Oakland, CA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L; a = decay constant
b = concentration at time (x); x = time (x) in days

		Constituent: Total Petroleum Hydrocarbons as Gasoline (TPHg)
Given		
Environmental Screening Level (ESL):	y	100
Constant:	b	1.13E+14
Constant:	a	-6.67E-04
Starting date for current trend:		3/8/1994
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.85
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Nov 2013



FORMER CHEVRON
SERVICE STATION 9-1583
5509 MARTIN LUTHER KING JR. WAY
OAKLAND, CA

CONESTOGA-ROVERS & ASSOCIATES

MONITORING WELL MW-8
HYDROCARBON CONCENTRATIONS
AND GROUNDWATER ELEVATION

APPENDIX F

DOMENICO MODEL

DOMENICO MULTI-DIMENSIONAL ADVECTION-DISPERSION MODEL FOR BENZENE TRANSPORT[1]

FORMER CHEVRON SERVICE STATION 9-1583

5509 MARTIN LUTHER KING JR. WAY, OAKLAND, CALIFORNIA

Source concentration	C_0	**3,000**	ppb
X axis dispersivity	α_x	**0.10**	ft
Y axis dispersivity	α_y	0.05	ft
Z axis dispersivity	α_z	0.01	ft
Groundwater seepage velocity	v_s	**0.014**	ft/day
Source dimension Y	Y	20	
Source dimension Z	Z	5	
First order attenuation rate	λ	**0.00229**	1/day
$[1-(1+(4\lambda\alpha_x/v_s))^{(1/2)}]$	[…]	-0.0322	

Analytical Solution for Steady-State Concentration Along Downgradient Centerline[1]:

$$C_x = C_0 * \exp\left(\frac{x}{2\alpha_x}\left[1-\left(1+\frac{4\lambda\alpha_x}{v_s}\right)^{1/2}\right]\right) * \text{erf}\left[\frac{Y}{4\left(\alpha_y x\right)^{1/2}}\right] * \text{erf}\left[\frac{Z}{4\left(\alpha_z x\right)^{1/2}}\right]$$

Distance Traveled from Source - x (feet)	C_x Concentration (ppb)	Travel Time (years)
0	3000	0.0
5	1341	1.0
10	600	2.0
15	268	2.9
20	120	3.9
25	54	4.9
30	24	5.9
35	11	6.8
40	5	7.8
45	2	8.8
50	1	9.8
55	0	10.8
60	0	11.7
65	0	12.7
70	0	13.7
75	0	14.7
80	0	15.6
85	0	16.6
90	0	17.6
95	0	18.6
100	0	19.6

[1]Domenico, P.A., 1987, An analytical model for multidimensional transport of a decaying contaminant species: Journal of Hydrology, v. 91; pp. 49-58.

APPENDIX G

SOIL VAPOR ANALYTICAL REPORT

Air Toxics LTD.
Laboratory Services Since 1989

7/7/2009

Ms. Lindsay Marsh
Conestoga-Rovers Associates (CRA)
2000 Opportunity Drive
Suite 110
Roseville CA 95678

Project Name: 9-1583 Oakland
Project #:
Workorder #: 0809246AR1

Dear Ms. Lindsay Marsh

The following report includes the data for the above referenced project for sample(s) received on 9/12/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0809246AR1

Work Order Summary

CLIENT:	Ms. Lindsay Marsh Conestoga-Rovers Associates (CRA) 2000 Opportunity Drive Suite 110 Roseville, CA 95678	**BILL TO:**	Ms. Lindsay Marsh Conestoga-Rovers Associates (CRA) 2000 Opportunity Drive Suite 110 Roseville, CA 95678
PHONE:	916-677-3407 x123	**P.O. #**	
FAX:	916-677-3687	**PROJECT #**	9-1583 Oakland
DATE RECEIVED:	09/12/2008	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	09/26/2008		
DATE REISSUED:	07/07/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-5	Modified TO-15	2.5 "Hg	15 psi
02A	VP-4	Modified TO-15	2.5 "Hg	15 psi
02AA	VP-4 Lab Duplicate	Modified TO-15	2.5 "Hg	15 psi
03A	VP-1	Modified TO-15	4.0 "Hg	15 psi
04A	VP-2	Modified TO-15	5.5 "Hg	15 psi
05A	VP-3	Modified TO-15	5.5 "Hg	15 psi
06A	Dupe	Modified TO-15	4.0 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
07B	Lab Blank	Modified TO-15	NA	NA
07C	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
08B	CCV	Modified TO-15	NA	NA
08C	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09B	LCS	Modified TO-15	NA	NA
09C	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 07/07/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Std & Soil Gas
Conestoga-Rovers Associates (CRA)
Workorder# 0809246AR1

Six 1 Liter Summa Canister (100% Certified) samples were received on September 12, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported LCS from instrument MSD-W has been derived from more than one analytical file.

PER CLIENT REQUEST, THE WORK ORDER WAS RE-ISSUED ON 7/7/09 TO REPORT THE TOP TWENTY TENTATIVELY IDENTIFIED COMPOUNDS (TICS) AND THE PERCENTAGE OF ALIPHATIC AND AROMATIC COMPOUNDS FOR SAMPLES VP-5, VP-4 AND VP-2.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-5

Lab ID#: 0809246AR1-01A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	56%	47 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	43%	980 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	72%	260 N J

Client Sample ID: VP-4

Lab ID#: 0809246AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	5.5	1100	26	5400

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Pentane, 2,4-dimethyl-	108-08-7	91%	260 N J
Pentane, 2,3-dimethyl-	565-59-3	59%	93 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	110 N J
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	64%	260 N J
Pentane, 2,2,3-trimethyl-	564-02-3	64%	130 N J
Pentane, 2,3,4-trimethyl-	565-75-3	91%	550 N J
Pentane, 2,3,3-trimethyl-	560-21-4	90%	850 N J
Hexane, 2,2,4-trimethyl-	16747-26-5	83%	2700 N J
Hexane, 2,3,3-trimethyl-	16747-28-7	78%	220 N J
Heptane, 2,3,5-trimethyl-	20278-85-7	83%	68 N J
Octane, 3-methyl-	2216-33-3	53%	130 N J
3-Heptene, 3-ethyl-	74764-46-8	78%	85 N J
Decane, 2,2,6-trimethyl-	62237-97-2	64%	130 N J
Unknown	NA	NA	130 J
Decane, 2,2,7-trimethyl-	62237-99-4	64%	220 N J
Octane, 3,3-dimethyl-	4110-44-5	83%	100 N J
Unknown	NA	NA	63 J
Octane, 2,2,6-trimethyl-	62016-28-8	83%	110 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	86%	220 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	81%	100 N J

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-4 Lab Duplicate

Lab ID#: 0809246AR1-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	5.5	1100	26	5000

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Pentane, 2,4-dimethyl-	108-08-7	91%	250 N J
Pentane, 2,3-dimethyl-	565-59-3	91%	91 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	110 N J
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	64%	260 N J
Pentane, 2,2,3-trimethyl-	564-02-3	40%	120 N J
Pentane, 2,3,4-trimethyl-	565-75-3	91%	540 N J
Pentane, 2,3,3-trimethyl-	560-21-4	90%	830 N J
Hexane, 2,2,4-trimethyl-	16747-26-5	83%	2600 N J
Hexane, 2,3,3-trimethyl-	16747-28-7	78%	220 N J
Heptane, 2,3,5-trimethyl-	20278-85-7	64%	66 N J
Octane, 3-methyl-	2216-33-3	43%	130 N J
3-Heptene, 3-ethyl-	74764-46-8	72%	84 N J
Decane, 2,2,6-trimethyl-	62237-97-2	64%	130 N J
Unknown	NA	NA	130 J
Decane, 2,2,7-trimethyl-	62237-99-4	78%	210 N J
Octane, 3,3-dimethyl-	4110-44-5	74%	100 N J
Unknown	NA	NA	62 J
Octane, 2,2,6-trimethyl-	62016-28-8	72%	110 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	47%	220 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	72%	100 N J

Client Sample ID: VP-1

Lab ID#: 0809246AR1-03A

No Detections Were Found.

Client Sample ID: VP-2

Lab ID#: 0809246AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	16	3700	77	17000

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-2

Lab ID#: 0809246AR1-04A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Pentane, 2,4-dimethyl-	108-08-7	91%	1300 N J
Pentane, 2,3-dimethyl-	565-59-3	80%	2000 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	2300 N J
Hexane, 1,1'-oxybis-	112-58-3	78%	2900 N J
Cyclopentane, 1,2,4-trimethyl-, (1.alpha	4850-28-6	91%	1300 N J
Pentane, 2,3,4-trimethyl-	565-75-3	87%	4000 N J
Pentane, 2,3,3-trimethyl-	560-21-4	80%	7000 N J
Hexane, 3,4-dimethyl-	583-48-2	64%	2800 N J
Hexane, 2,2,5-trimethyl-	3522-94-9	83%	7800 N J
Unknown	NA	NA	860 J
Heptane, 2,5-dimethyl-	2216-30-0	90%	1000 N J
Unknown	NA	NA	690 J
Unknown	NA	NA	510 J
Hexane, 2,3,4-trimethyl-	921-47-1	78%	1000 N J
Decane, 2,5-dimethyl-	17312-50-4	72%	820 N J
Decane, 2,2,6-trimethyl-	62237-97-2	59%	680 N J
Heptane, 3,3,5-trimethyl-	7154-80-5	64%	630 N J
Heptane, 2,3,4-trimethyl-	52896-95-4	50%	710 N J
Nonane, 3-methyl-	5911-04-6	72%	510 N J
Nonane, 2-methyl-	871-83-0	64%	1000 N J

Client Sample ID: VP-3

Lab ID#: 0809246AR1-05A

No Detections Were Found.

Client Sample ID: Dupe

Lab ID#: 0809246AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	24	4300	110	20000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-5

Lab ID#: 0809246AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092508R1**	**Date of Collection: 9/11/08 10:14:00 AM**	
Dil. Factor:	**4.44**	**Date of Analysis: 9/25/08 12:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	2.2	Not Detected	8.0	Not Detected
Benzene	2.2	Not Detected	7.1	Not Detected
Toluene	2.2	Not Detected	8.4	Not Detected
Ethyl Benzene	2.2	Not Detected	9.6	Not Detected
m,p-Xylene	2.2	Not Detected	9.6	Not Detected
o-Xylene	2.2	Not Detected	9.6	Not Detected
tert-Butyl alcohol	8.9	Not Detected	27	Not Detected
1,2-Dibromoethane (EDB)	2.2	Not Detected	17	Not Detected
1,2-Dichloroethane	2.2	Not Detected	9.0	Not Detected
2,2,4-Trimethylpentane	2.2	Not Detected	10	Not Detected
Ethanol	8.9	Not Detected	17	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	56%	47 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	43%	980 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	72%	260 N J

92% Aliphatic
8% Aromatic

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 0809246AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092424R1**	**Date of Collection: 9/11/08 10:56:00 AM**	
Dil. Factor:	**11.0**	**Date of Analysis: 9/25/08 01:27 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	5.5	Not Detected	20	Not Detected
Benzene	5.5	Not Detected	18	Not Detected
Toluene	5.5	Not Detected	21	Not Detected
Ethyl Benzene	5.5	Not Detected	24	Not Detected
m,p-Xylene	5.5	Not Detected	24	Not Detected
o-Xylene	5.5	Not Detected	24	Not Detected
tert-Butyl alcohol	22	Not Detected	67	Not Detected
1,2-Dibromoethane (EDB)	5.5	Not Detected	42	Not Detected
1,2-Dichloroethane	5.5	Not Detected	22	Not Detected
2,2,4-Trimethylpentane	5.5	1100	26	5400
Ethanol	22	Not Detected	41	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Pentane, 2,4-dimethyl-	108-08-7	91%	260 N J
Pentane, 2,3-dimethyl-	565-59-3	59%	93 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	110 N J
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	64%	260 N J
Pentane, 2,2,3-trimethyl-	564-02-3	64%	130 N J
Pentane, 2,3,4-trimethyl-	565-75-3	91%	550 N J
Pentane, 2,3,3-trimethyl-	560-21-4	90%	850 N J
Hexane, 2,2,4-trimethyl-	16747-26-5	83%	2700 N J
Hexane, 2,3,3-trimethyl-	16747-28-7	78%	220 N J
Heptane, 2,3,5-trimethyl-	20278-85-7	83%	68 N J
Octane, 3-methyl-	2216-33-3	53%	130 N J
3-Heptene, 3-ethyl-	74764-46-8	78%	85 N J
Decane, 2,2,6-trimethyl-	62237-97-2	64%	130 N J
Unknown	NA	NA	130 J
Decane, 2,2,7-trimethyl-	62237-99-4	64%	220 N J
Octane, 3,3-dimethyl-	4110-44-5	83%	100 N J
Unknown	NA	NA	63 J
Octane, 2,2,6-trimethyl-	62016-28-8	83%	110 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	86%	220 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	81%	100 N J

100% Aliphatic

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 0809246AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092424R1**	**Date of Collection: 9/11/08 10:56:00 AM**	
Dil. Factor:	**11.0**	**Date of Analysis: 9/25/08 01:27 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4 Lab Duplicate

Lab ID#: 0809246AR1-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092425R1**	**Date of Collection: 9/11/08 10:56:00 AM**	
Dil. Factor:	**11.0**	**Date of Analysis: 9/25/08 02:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	5.5	Not Detected	20	Not Detected
Benzene	5.5	Not Detected	18	Not Detected
Toluene	5.5	Not Detected	21	Not Detected
Ethyl Benzene	5.5	Not Detected	24	Not Detected
m,p-Xylene	5.5	Not Detected	24	Not Detected
o-Xylene	5.5	Not Detected	24	Not Detected
tert-Butyl alcohol	22	Not Detected	67	Not Detected
1,2-Dibromoethane (EDB)	5.5	Not Detected	42	Not Detected
1,2-Dichloroethane	5.5	Not Detected	22	Not Detected
2,2,4-Trimethylpentane	5.5	1100	26	5000
Ethanol	22	Not Detected	41	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Pentane, 2,4-dimethyl-	108-08-7	91%	250 N J
Pentane, 2,3-dimethyl-	565-59-3	91%	91 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	110 N J
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	64%	260 N J
Pentane, 2,2,3-trimethyl-	564-02-3	40%	120 N J
Pentane, 2,3,4-trimethyl-	565-75-3	91%	540 N J
Pentane, 2,3,3-trimethyl-	560-21-4	90%	830 N J
Hexane, 2,2,4-trimethyl-	16747-26-5	83%	2600 N J
Hexane, 2,3,3-trimethyl-	16747-28-7	78%	220 N J
Heptane, 2,3,5-trimethyl-	20278-85-7	64%	66 N J
Octane, 3-methyl-	2216-33-3	43%	130 N J
3-Heptene, 3-ethyl-	74764-46-8	72%	84 N J
Decane, 2,2,6-trimethyl-	62237-97-2	64%	130 N J
Unknown	NA	NA	130 J
Decane, 2,2,7-trimethyl-	62237-99-4	78%	210 N J
Octane, 3,3-dimethyl-	4110-44-5	74%	100 N J
Unknown	NA	NA	62 J
Octane, 2,2,6-trimethyl-	62016-28-8	72%	110 N J
Cyclotetrasiloxane, octamethyl-	556-67-2	47%	220 N J
3-HYDROXYMANDELIC ACID ETHYL ESTER DITMS	0-00-0	72%	100 N J

100% Aliphatic

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4 Lab Duplicate

Lab ID#: 0809246AR1-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092425R1**	**Date of Collection: 9/11/08 10:56:00 AM**	
Dil. Factor:	**11.0**	**Date of Analysis: 9/25/08 02:06 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-1

Lab ID#: 0809246AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092507**	**Date of Collection: 9/11/08 11:41:00 AM**	
Dil. Factor:	**4.71**	**Date of Analysis: 9/25/08 12:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	2.4	Not Detected	8.5	Not Detected
Benzene	2.4	Not Detected	7.5	Not Detected
Toluene	2.4	Not Detected	8.9	Not Detected
Ethyl Benzene	2.4	Not Detected	10	Not Detected
m,p-Xylene	2.4	Not Detected	10	Not Detected
o-Xylene	2.4	Not Detected	10	Not Detected
tert-Butyl alcohol	9.4	Not Detected	28	Not Detected
1,2-Dibromoethane (EDB)	2.4	Not Detected	18	Not Detected
1,2-Dichloroethane	2.4	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	2.4	Not Detected	11	Not Detected
Ethanol	9.4	Not Detected	18	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 0809246AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092426R1**	**Date of Collection: 9/11/08 1:32:00 PM**	
Dil. Factor:	**32.9**	**Date of Analysis: 9/25/08 03:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	16	Not Detected	59	Not Detected
Benzene	16	Not Detected	52	Not Detected
Toluene	16	Not Detected	62	Not Detected
Ethyl Benzene	16	Not Detected	71	Not Detected
m,p-Xylene	16	Not Detected	71	Not Detected
o-Xylene	16	Not Detected	71	Not Detected
tert-Butyl alcohol	66	Not Detected	200	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	130	Not Detected
1,2-Dichloroethane	16	Not Detected	66	Not Detected
2,2,4-Trimethylpentane	16	3700	77	17000
Ethanol	66	Not Detected	120	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Pentane, 2,4-dimethyl-	108-08-7	91%	1300 N J
Pentane, 2,3-dimethyl-	565-59-3	80%	2000 N J
Hexane, 2,5-dimethyl-	592-13-2	70%	2300 N J
Hexane, 1,1'-oxybis-	112-58-3	78%	2900 N J
Cyclopentane, 1,2,4-trimethyl-, (1.alpha	4850-28-6	91%	1300 N J
Pentane, 2,3,4-trimethyl-	565-75-3	87%	4000 N J
Pentane, 2,3,3-trimethyl-	560-21-4	80%	7000 N J
Hexane, 3,4-dimethyl-	583-48-2	64%	2800 N J
Hexane, 2,2,5-trimethyl-	3522-94-9	83%	7800 N J
Unknown	NA	NA	860 J
Heptane, 2,5-dimethyl-	2216-30-0	90%	1000 N J
Unknown	NA	NA	690 J
Unknown	NA	NA	510 J
Hexane, 2,3,4-trimethyl-	921-47-1	78%	1000 N J
Decane, 2,5-dimethyl-	17312-50-4	72%	820 N J
Decane, 2,2,6-trimethyl-	62237-97-2	59%	680 N J
Heptane, 3,3,5-trimethyl-	7154-80-5	64%	630 N J
Heptane, 2,3,4-trimethyl-	52896-95-4	50%	710 N J
Nonane, 3-methyl-	5911-04-6	72%	510 N J
Nonane, 2-methyl-	871-83-0	64%	1000 N J

100% Aliphatic

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 0809246AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092426R1**	**Date of Collection: 9/11/08 1:32:00 PM**	
Dil. Factor:	**32.9**	**Date of Analysis: 9/25/08 03:28 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3

Lab ID#: 0809246AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092427**	**Date of Collection: 9/11/08 12:26:00 PM**	
Dil. Factor:	**2.47**	**Date of Analysis: 9/25/08 04:36 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
tert-Butyl alcohol	4.9	Not Detected	15	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Dupe

Lab ID#: 0809246AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w092408**	**Date of Collection:**	**9/11/08 1/1/1990**
Dil. Factor:	**4.78**	**Date of Analysis:**	**9/24/08 03:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
tert-Butyl alcohol	96	Not Detected	290	Not Detected
Ethanol	96	Not Detected	180	Not Detected
Methyl tert-butyl ether	24	Not Detected	86	Not Detected
2,2,4-Trimethylpentane	24	4300	110	20000
Benzene	24	Not Detected	76	Not Detected
1,2-Dichloroethane	24	Not Detected	97	Not Detected
Toluene	24	Not Detected	90	Not Detected
1,2-Dibromoethane (EDB)	24	Not Detected	180	Not Detected
Ethyl Benzene	24	Not Detected	100	Not Detected
m,p-Xylene	24	Not Detected	100	Not Detected
o-Xylene	24	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0809246AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092410**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0809246AR1-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/08 11:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0809246AR1-07C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w092405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 01:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
tert-Butyl alcohol	20	Not Detected	61	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0809246AR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 01:42 PM**	

Compound	%Recovery
Methyl tert-butyl ether	99
Benzene	99
Toluene	101
Ethyl Benzene	106
m,p-Xylene	107
o-Xylene	109
tert-Butyl alcohol	81
1,2-Dibromoethane (EDB)	108
1,2-Dichloroethane	98
2,2,4-Trimethylpentane	88
Ethanol	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0809246AR1-08B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/08 08:58 AM**	

Compound	%Recovery
Methyl tert-butyl ether	97
Benzene	94
Toluene	100
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	106
tert-Butyl alcohol	80
1,2-Dibromoethane (EDB)	105
1,2-Dichloroethane	93
2,2,4-Trimethylpentane	83
Ethanol	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0809246AR1-08C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w092402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 11:16 AM**	

Compound	%Recovery
tert-Butyl alcohol	94
Ethanol	100
Methyl tert-butyl ether	82
2,2,4-Trimethylpentane	107
Benzene	100
1,2-Dichloroethane	88
Toluene	99
1,2-Dibromoethane (EDB)	101
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0809246AR1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 09:19 AM**	

Compound	%Recovery
Methyl tert-butyl ether	105
Benzene	103
Toluene	110
Ethyl Benzene	106
m,p-Xylene	106
o-Xylene	109
tert-Butyl alcohol	90
1,2-Dibromoethane (EDB)	106
1,2-Dichloroethane	103
2,2,4-Trimethylpentane	99
Ethanol	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0809246AR1-09B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t092504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/08 10:16 AM**	

Compound	%Recovery
Methyl tert-butyl ether	102
Benzene	96
Toluene	107
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	107
tert-Butyl alcohol	81
1,2-Dibromoethane (EDB)	104
1,2-Dichloroethane	97
2,2,4-Trimethylpentane	82
Ethanol	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0809246AR1-09C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w092403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 12:01 PM**	

Compound	%Recovery
tert-Butyl alcohol	102
Ethanol	108
Methyl tert-butyl ether	86
2,2,4-Trimethylpentane	99
Benzene	100
1,2-Dichloroethane	88
Toluene	99
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

ATTACHMENT B

SECOND SEMI-ANNUAL 2012 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

October 19, 2012
G-R #386506

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

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

RE: Former Chevron Service Station
#9-1583 (MTI)
5509 Martin Luther King Way
Oakland, California
RO 0000002

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 17, 2012	Groundwater Monitoring and Sampling Report **Second Semi-Annual Event of September 14, 2012**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following (including PDF submittal of the entire report to GeoTracker):**

Ms. Alexis Fischer, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583

cc: Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-CRA UPLOAD TO ALAMEDA CO.)
Mr. Ben Shimek, (Owner), 31 Industrial Way, Greenbrae, CA 94904

Enclosures

trans/9-1583

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-1583
Site Address: 5509 Martin Luther King Way
City: Oakland, CA

Job #: 386506
Event Date: 9 / 14 / 12
Sampler: HAIG KEVORK

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1	OK	N/A	N/A	N/A	OK			N	N	CHRISTY BOX	NO
MW-2	OK	N/A	N/A	N/A	OK						
MW-3	OK	N/A	N/A	N/A	OK						
MW-7	OK			2-S	OK					MORRISON-7"/2	
MW-8	OK			2-S	OK					EMCO-12"/2	

Comments

GETTLER-RYAN INC.

October 17, 2012
G-R Job #386506

Ms. Alexis Fischer
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

RE: Second Semi-Annual Event of September 14, 2012
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

Dear Ms. Fischer:

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

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

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

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

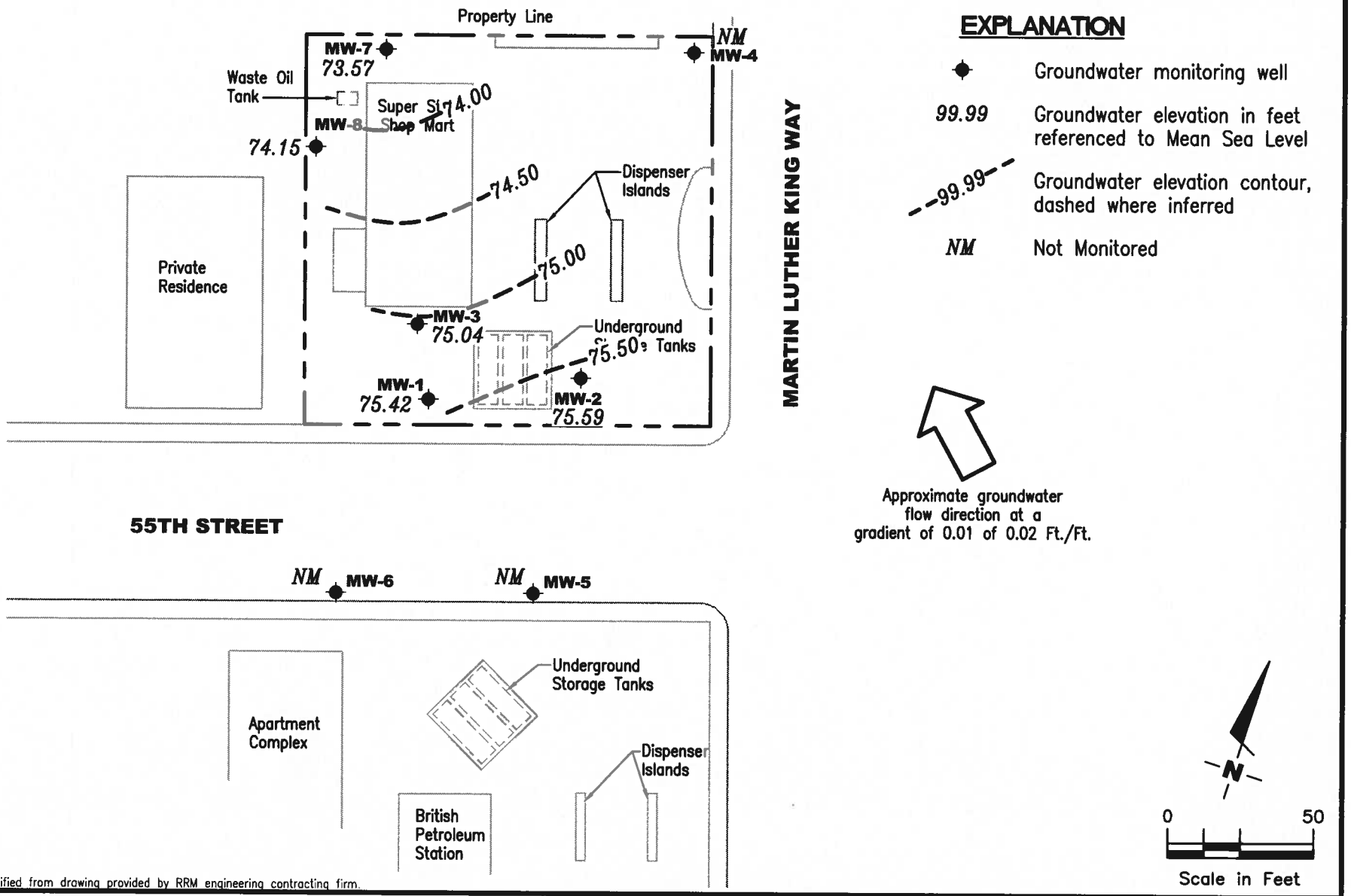
Sincerely,

Deanna L. Harding
Project Coordinator

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

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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



Source: Figure modified from drawing provided by RRM engineering contracting firm.

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

POTENTIOMETRIC MAP
Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386506		September 14, 2012	

FILE NAME: P:\Enviro\Chevron\9-1583\Q12-9-1583.dwg | Layout Tab: Pot3

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1													
12/22/83	81.97	71.72	10.25	--	--	--	--	--	--	--	--	--	--
12/30/83	81.97	72.80	9.17	--	--	--	--	--	--	--	--	--	--
03/12/90	81.97	71.89	10.08	--	--	--	50,000	3,000	7,300	1,900	18,000	--	--
03/25/90	82.42	71.51	10.46	--	--	--	--	--	--	--	--	--	--
10/18/90	82.42	--	--	--	--	--	--	--	--	--	--	--	--
10/31/90	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	82.42	70.84	11.58	--	--	--	--	--	--	--	--	--	--
02/08/91	82.42	72.31	10.11	--	--	--	100,000	4,200	8,400	16,000	2,600	--	--
05/08/91	82.42	71.97	10.45	--	--	--	31,000	200	66	670	2,000	--	--
08/12/91	82.42	71.19	11.23	--	--	--	17,000	81	7.2	270	710	--	--
11/07/91	82.42	71.72	10.70	--	--	--	7,100	24	6.0	130	170	--	--
02/05/92	82.42	72.05	10.37	--	--	--	110,000	8,900	14,000	2,700	12,000	--	--
05/13/92	82.42	71.84	10.58	--	--	--	19,000	450	85	480	870	--	--
07/17/92	82.42	71.37	11.05	--	--	--	8,500	170	<10	360	600	--	--
10/05/92	82.42	71.01	11.41	--	--	--	22,000	4,300	5,100	570	2,900	--	--
11/11/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	82.42	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	82.42	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	82.42	74.31	8.11	--	--	--	14,000,000	12,000	79,000	270,000	1,300,000	--	--
02/02/93	82.42	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	82.42	72.57	9.85	--	--	--	48,000	670	1,100	1,600	6,300	--	--
08/06/93	82.42	71.59	10.83	--	--	--	44,000	660	990	1,600	6,100	--	--
10/21/93	82.42	71.52	10.90	--	--	--	18,000	270	460	1,300	4,700	--	--
01/05/94	82.42	72.09	10.33	--	--	--	22,000	160	160	630	2,300	--	--
04/08/94	82.42	72.24	10.18	--	--	--	21,000	37	110	570	1,400	--	--
07/06/94	82.42	71.78	10.64	--	--	--	28,000	210	100	540	1,200	--	--
08/04/94	82.42	71.91	10.51	--	--	--	--	--	--	--	--	--	--
10/05/94	82.42	71.51	10.91	--	--	--	120,000	39	22	320	900	--	--
01/18/95	82.42	73.80	8.62	--	--	--	12,000	<20	<20	130	160	--	--
04/07/95	82.42	72.89	9.53	--	--	--	2,500	<2.5	<2.5	71	38	--	--
07/06/95	82.42	72.03	10.39	--	--	--	5,700	<0.5	<0.5	110	110	--	--
10/11/95	82.42	70.54	11.88	--	--	--	2,700	13	<5.0	13	5.7	650	--
01/17/96	82.42	73.14	9.28	--	--	--	4,200	12	<5.0	43	24	300	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1 (cont)													
04/05/96	82.42	72.82	9.60	--	--	--	1,300	<1.2	<1.2	7.6	2.8	220	--
07/23/96	82.42	72.19	10.23	--	--	--	700	<1.0	<1.0	7.0	4.8	240	--
10/02/96	82.42	71.67	10.75	--	--	--	1,700	<2.5	9.8	10	13	610	--
01/23/97	82.42	74.75	7.67	--	--	--	1,300	21	<10	<10	<10	2,700	--
04/01/97	82.42	72.22	10.20	--	--	--	670	<2.0	<2.0	4.1	3.6	1,200	--
07/09/97	82.42	72.12	10.30	--	--	--	460	<1.0	<1.0	<1.0	<1.0	440	--
10/07/97	82.42	71.73	10.69	--	--	--	1,100	8.5	<2.0	<2.0	2.0	250	--
01/22/98	82.42	74.20	8.22	--	--	--	460	1.4	5.8	<0.5	<0.5	150	--
04/02/98	82.42	72.89	9.53	--	--	--	220	2.5	1.2	<1.0	1.9	260	--
07/02/98	82.42	72.08	10.34	--	--	--	270	<0.5	0.82	<0.5	<0.5	140	--
10/02/98	82.42	71.70	10.72	--	--	--	170	1.3	<0.5	<0.5	<1.5	320	--
01/18/99	82.42	72.87	9.55	--	--	--	416	<2.5	<2.5	<2.5	<2.5	316/295[2]	--
07/22/99	82.42	71.61	10.81	--	--	--	186	<0.5	3.94	1.46	2.37	63.7	--
01/17/00	82.42	72.21	10.21	--	--	--	248	1.6	<0.5	<0.5	<0.5	41.0	--
07/05/00	82.42	72.12	10.30	0.00	--	--	76[3]	<0.50	<0.50	<0.50	0.79	69	--
01/15/01	82.42	73.01	9.41	0.00	--	--	66.6	<0.500	<0.500	<0.500	0.585	22.5	--
07/03/01	82.42	72.13	10.29	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	8.8	--
02/28/02	82.42	72.74	9.68	0.00	--	--	58	<0.50	<0.50	<0.50	<1.5	21	--
07/08/02	82.42	72.14	10.28	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	23	--
01/01/03	82.42	74.28	8.14	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	15	--
07/14/03[8]	82.42	72.12	10.30	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
01/12/04[8]	82.42	73.40	9.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	61	--
07/27/04[8]	82.42	72.10	10.32	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	54	--
01/25/05[8]	82.42	74.24	8.18	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/26/05[8]	82.42	72.40	10.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/24/06[8]	82.42	74.22	8.20	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
07/25/06[8]	82.42	72.30	10.12	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	14	--
01/23/07[8]	82.42	72.57	9.85	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	17	--
07/24/07[8]	82.42	70.59	11.83	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	7	--
01/22/08[8]	82.42	73.12	9.30	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	8	--
07/22/08[8]	82.42	71.69	10.73	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/13/09[8]	82.42	72.41	10.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/14/09	82.42	71.52	10.90	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	85.41	76.70	8.71	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	15	--
07/13/10	85.41	75.09	10.32	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1 (cont)													
01/25/11[8]	85.41	77.03	8.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/12/11	85.41	75.86	9.55	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/10/12[8]	85.41	75.49	9.92	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
09/14/12	**85.41**	**75.42**	**9.99**	**0.00**	**SAMPLED ANNUALLY**		--	--	--	--	--	--	--
MW-2													
12/22/83	83.48	72.98	10.50	--	--	--	--	--	--	--	--	--	--
12/30/83	83.48	73.56	9.92	--	--	--	--	--	--	--	--	--	--
03/12/90	83.48	72.46	11.02	--	--	--	800	400	22	18	55	--	--
03/25/90	83.48	72.15	11.33	--	--	--	--	--	--	--	--	--	--
10/18/90	83.48	71.17	12.31	--	--	--	--	--	--	--	--	--	--
10/31/90	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	83.48	--	--	--	--	--	--	--	--	--	--	--	--
02/08/91	83.48	72.43	11.05	--	--	--	4,600	820	440	720	210	--	--
05/08/91	83.48	72.12	11.36	--	--	--	<50	5.0	<0.5	<0.5	<0.5	--	--
08/12/91	83.48	71.51	11.97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	83.48	71.98	11.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	83.48	72.29	11.19	--	--	--	1,700	390	170	60	200	--	--
05/13/92	83.48	71.99	11.49	--	--	--	74	9.3	<0.5	<0.5	<0.5	--	--
07/17/92	83.48	71.63	11.85	--	--	--	<50	2.0	<0.5	<0.5	<0.5	--	--
10/05/92	83.48	71.48	12.00	--	--	--	3,500	1,200	530	86	220	--	--
11/11/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	83.48	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	83.48	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	83.48	74.65	8.83	--	--	--	390	140	0.8	7.7	26	--	--
02/02/93	83.48	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	83.48	72.69	10.79	--	--	--	<50	5.0	<0.5	<0.5	<0.5	--	--
08/06/93	83.48	71.77	11.71	--	--	--	<50	1.0	<0.5	<0.5	<0.5	--	--
10/21/93	83.48	71.74	11.74	--	--	--	<50	1.0	<0.5	9.0	<0.5	--	--
01/05/94	83.48	72.30	11.18	--	--	--	<50	0.7	<0.5	<0.5	0.9	--	--
04/08/94	83.48	72.42	11.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	83.48	71.80	11.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-2 (cont)													
08/04/94	83.48	72.29	11.19	--	--	--	--	--	--	--	--	--	--
10/05/94	83.48	71.79	11.69	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	83.48	74.26	9.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	83.48	73.62	9.86	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	83.48	72.74	10.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	83.48	72.26	11.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	83.48	73.74	9.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	83.48	73.52	9.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	83.48	72.57	10.91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	83.48	72.41	11.07	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	83.48	75.18	8.30	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	3.4	--
04/01/97	83.48	72.90	10.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	83.48	72.58	10.90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	83.48	72.52	10.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	83.48	74.73	8.75	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	83.48	73.66	9.82	--	--	--	89	3.0	5.4	4.1	21	<2.5	--
07/02/98	83.48	72.74	10.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	83.48	72.43	11.05	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	83.48	73.09	10.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	83.48	72.61	10.87	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	83.48	72.89	10.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/05/00	83.48	72.84	10.64	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
01/15/01	83.48	73.77	9.71	0.00	--	--	555[6]	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	83.48	73.02	10.46	0.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
02/28/02	83.48	73.49	9.99	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	83.48	72.98	10.50	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
01/01/03	83.48	75.33	8.15	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/14/03[8]	83.48	72.96	10.52	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/12/04[8]	83.48	74.31	9.17	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/04[8]	83.48	72.85	10.63	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	83.48	74.36	9.12	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05[8]	83.48	73.56	9.92	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/24/06[8]	83.48	74.33	9.15	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06[8]	83.48	73.03	10.45	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/23/07[8]	83.48	73.37	10.11	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/24/07[8]	83.48	72.90	10.58	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-2 (cont)													
01/22/08[8]	83.48	73.85	9.63	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08[8]	83.48	73.08	10.40	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
01/13/09[8]	83.48	73.10	10.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	83.48	72.93	10.55	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	86.04	76.38	9.66	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	86.04	76.09	9.95	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/25/11[8]	86.04	76.68	9.36	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	86.04	76.14	9.90	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/10/12[8]	86.04	75.67	10.37	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/14/12	**86.04**	**75.59**	**10.45**	**0.00**	**SAMPLED ANNUALLY**		**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-3													
12/22/83	84.36	72.78	11.58	--	--	--	--	--	--	--	--	--	--
12/30/83	84.36	73.19	11.17	--	--	--	--	--	--	--	--	--	--
03/12/90	84.36	72.22	12.14	--	--	--	47,000	1,000	9,900	1,700	9,800	--	--
03/25/90	84.38	71.81	12.55	--	--	--	--	--	--	--	--	--	--
10/18/90	84.38	--	--	--	--	--	--	--	--	--	--	--	--
10/31/90	84.38	--	--	--	--	--	--	--	--	--	--	--	--
11/16/90	84.38	70.76	13.62	--	--	--	--	--	--	--	--	--	--
02/08/91	84.38	72.20	12.18	--	--	--	58,000	4,900	5,200	9,500	2,000	--	--
05/08/91	84.38	71.86	12.52	--	--	--	50,000	2,100	1,400	2,000	9,400	--	--
08/12/91	84.38	71.11	13.27	--	--	--	15,000	1,300	160	920	1,900	--	--
11/07/91	84.38	71.57	12.81	--	--	--	26,000	1,000	310	1,900	5,900	--	--
02/05/92	84.38	71.91	12.47	--	--	--	35,000	2,800	1,300	1,500	4,700	--	--
05/13/92	84.38	71.76	12.62	--	--	--	47,000	1,500	1,200	1,100	4,800	--	--
07/17/92	84.38	71.25	13.13	--	--	--	15,000	120	11	88	140	--	--
10/05/92	84.38	70.95	13.62	0.24	--	--	--	--	--	--	--	--	--
11/11/92	84.38	71.63	12.89	0.17	--	--	--	--	--	--	--	--	--
11/17/92	84.38	71.54	12.89	0.06	--	--	--	--	--	--	--	--	--
11/24/92	84.38	71.56	12.86	0.05	--	--	--	--	--	--	--	--	--
12/01/92	84.38	71.48	12.92	0.03	--	--	--	--	--	--	--	--	--
12/29/92	84.38	73.14	11.24	Sheen	--	--	--	--	--	--	--	--	--
01/05/93	84.38	73.23	11.15	Sheen	--	--	--	--	--	--	--	--	--
01/08/93	84.38	74.28	10.10	--	--	--	250,000	5,000	17,000	5,500	28,000	--	--
02/02/93	84.38	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3 (cont)													
04/14/93	84.38	72.48	11.91	0.01	--	--	--	--	--	--	--	--	--
08/06/93	84.38	71.49	12.90	0.01	--	--	150,000	3,800	6,600	3,700	17,000	--	--
10/21/93	84.38	71.41	12.97	--	--	--	22,000	2,300	1,700	1,400	5,100	--	--
01/05/94	84.38	71.96	12.42	--	--	--	37,000	1,600	1,100	1,300	6,500	--	--
04/08/94	84.38	72.51	11.87	--	--	--	16,000	250	310	500	2,500	--	--
07/06/94	84.38	71.64	12.74	--	--	--	43,000	660	320	1,900	6,400	--	--
08/04/94	84.38	71.71	12.67	--	--	--	--	--	--	--	--	--	--
10/05/94	84.38	71.43	12.95	--	--	--	12,000	280	90	480	370	--	--
01/18/95	84.38	73.72	10.66	--	--	--	20,000	200	230	700	3,500	--	--
04/07/95	84.38	72.84	11.54	--	--	--	22,000	120	120	810	4,400	--	--
07/06/95	84.38	71.99	12.39	--	--	--	15,000	110	<50	630	2,100	--	--
10/11/95	84.38	72.07	12.31	--	--	--	8,600	24	<10	360	560	1,100	--
01/17/96	84.38	73.68	10.70	--	--	--	9,300	<50	<50	230	1,100	2,300	--
04/05/96	84.38	73.35	11.03	--	--	--	8,700	16	<10	110	650	990	--
07/23/96	84.38	72.38	12.00	--	--	--	5,400	20	<5.0	190	480	2,300	--
10/02/96	84.38	72.20	12.18	--	--	--	6,200	43	<20	130	140	2,800	--
01/23/97	84.38	75.12	9.26	--	--	--	5,600	<5.0	<5.0	39	160	550	--
04/01/97	84.38	72.75	11.63	--	--	--	6,900	17	<10	150	330	3,900	--
07/09/97	84.38	72.38	12.00	--	--	--	5,300	31	<5.0	100	180	2,300	--
10/07/97	84.38	72.27	12.11	--	--	--	2,400	15	<2.0	30	15	900	--
01/22/98	84.38	74.73	9.65	--	--	--	3,200	2.5	7.9	70	220	660	--
04/02/98	84.38	73.49	10.89	--	--	--	1,300	14	9.7	25	63	430	--
07/02/98	84.38	72.69	11.69	--	--	--	750	6.9	<5.0	18	9.1	370	--
10/02/98	84.38	72.23	12.15	--	--	--	1,400	5.3	0.73	18	6.6	900	--
01/18/99	84.38	74.05	10.33	--	--	--	1,270	<1.0	<1.0	7.95	<1.0	100/99.7[2]	--
07/22/99	84.38	72.08	12.30	--	--	--	2,240	<1.0	<1.0	29.4	13.7	189	--
01/17/00	84.38	72.78	11.60	--	--	--	848	6.72	2.53	5.02	2.49	90	--
07/05/00	84.38	72.67	11.71	0.00	--	--	90[3]	5.3	<0.50	0.70	<0.50	770	--
01/15/01	84.38	73.93	10.45	0.00	--	--	206	<0.500	<0.500	<0.500	1.09	4.04	--
07/03/01	84.38	72.62	11.76	0.00	--	--	<50	0.53	<0.50	<0.50	1.1	20	--
02/28/02	84.38	73.29	11.09	0.00	--	--	170	<1.0	<1.0	<1.0	1.6	45	--
07/08/02	84.38	71.38	13.00	0.00	--	--	430	0.60	<0.50	0.79	<1.5	42	--
01/01/03	84.38	74.89	9.49	0.00	--	--	140	<0.50	<0.50	<0.50	<1.5	6.1	--
07/14/03[8]	84.38	71.36	13.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	43	--
01/12/04[8]	84.38	74.00	10.38	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/27/04[8]	84.38	72.60	11.78	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	41	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3 (cont)													
01/25/05[8]	84.38	73.96	10.42	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	27	--
07/26/05[8]	84.38	72.17	12.21	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	12	--
01/24/06[8]	84.38	73.99	10.39	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	--
07/25/06[8]	84.38	72.76	11.62	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	23	--
01/23/07[8]	84.38	73.44	10.94	0.00	--	--	130	<0.5	<0.5	<0.5	<0.5	2	--
07/24/07[8]	84.38	74.10	10.28	0.00	--	--	210	<0.5	<0.5	<0.5	<0.5	20	--
01/22/08[8]	84.38	73.83	10.55	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08[8]	84.38	72.40	11.98	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	7	--
01/13/09[8]	84.38	72.82	11.56	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	10	--
07/14/09	84.38	72.25	12.13	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/12/10[8]	86.80	75.93	10.87	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	14	--
07/13/10	86.80	75.37	11.43	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/25/11[8]	86.80	76.19	10.61	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	4	--
07/12/11	86.80	75.65	11.15	0.00	SAMPLED ANNUALLY		--	--	--	--	--	--	--
01/10/12[8]	86.80	75.18	11.62	0.00	--	--	120	<0.5	<0.5	<0.5	<0.5	1	--
09/14/12	**86.80**	**75.04**	**11.76**	**0.00**	**SAMPLED ANNUALLY**		--	--	--	--	--	--	--
MW-4													
10/18/90	84.25	68.50	15.75	--	--	--	--	--	--	--	--	--	--
10/31/90	84.25	70.35	13.90	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--	--
11/16/90	84.25	70.00	14.25	--	--	--	--	--	--	--	--	--	--
02/08/91	84.25	71.93	12.32	--	--	--	60	17	2.0	12	<0.5	--	--
05/08/91	84.25	72.02	12.23	--	--	--	65	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	84.25	70.32	13.93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	84.25	70.83	13.42	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	84.25	71.42	12.83	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	84.25	70.97	13.28	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/92	84.25	70.02	14.23	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	84.25	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	84.25	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-4 (cont)													
01/08/93	84.25	74.09	10.16	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	84.25	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	84.25	72.21	12.04	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/06/93	84.25	70.34	13.91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	84.25	70.26	13.99	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--	--
01/05/94	84.25	71.30	12.95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/08/94	84.25	71.31	12.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	84.25	70.57	13.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/04/94	84.25	70.71	13.54	--	--	--	--	--	--	--	--	--	--
10/05/94	84.25	70.65	13.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	84.25	74.77	9.48	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	84.25	72.70	11.55	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	84.25	71.25	13.00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	84.25	73.17	11.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	84.25	72.65	11.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	84.25	70.86	13.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	84.25	70.27	13.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	84.25	74.72	9.53	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	84.25	71.68	12.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	84.25	70.64	13.61	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	84.25	70.51	13.74	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	84.25	74.90	9.35	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	84.25	73.00	11.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/02/98	84.25	71.84	12.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	84.25	71.00	13.25	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	84.25	72.65	11.60	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	84.25	70.70	13.55	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	84.25	71.32	12.93	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/05/00	84.25	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	84.25	72.73	11.52	0.00	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	84.25	71.30	12.95	0.00	--	--	--	--	--	--	--	--	--
02/28/02	84.25	72.54	11.71	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/01/03	84.24	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/14/03	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-4 (cont)													
01/12/04[8]	84.24	73.23	11.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	84.24	73.28	10.96	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	84.24	73.36	10.88	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/23/07[8]	84.24	71.85	12.39	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/24/07	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	84.24	72.77	11.47	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	84.24	71.56	12.68	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	84.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	87.29	76.14	11.15	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	87.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	87.29	76.21	11.08	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	87.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/10/12[8]	87.29	73.94	13.35	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/14/12	**87.29**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-5													
10/18/90	81.95	71.17	10.78	--	--	--	--	--	--	--	--	--	--
10/31/90	81.95	71.32	10.63	--	--	--	110	<0.5	<0.5	<0.5	<0.5	--	--
11/16/90	81.95	71.27	10.68	--	--	--	--	--	--	--	--	--	--
02/08/91	81.95	72.78	9.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/08/91	81.95	73.27	8.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	81.95	71.62	10.33	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	81.95	72.19	9.76	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	81.95	72.48	9.47	--	--	--	69	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	81.95	72.25	9.70	--	--	--	74	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	81.95	71.74	10.21	--	--	--	880	2.6	<1.2	4.6	11	--	--
10/05/92	81.95	71.34	10.61	--	--	--	120	<0.5	<0.5	0.6	4.9	--	--
11/11/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	81.95	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-5 (cont)													
01/05/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	81.95	74.61	7.34	--	--	--	61	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	81.95	--	--	--	--	--	--	--	--	--	--	--	--
08/06/93	81.95	71.99	9.96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	81.95	71.89	10.06	--	--	--	<50	<0.5	<0.5	2.0	4.0	--	--
01/05/94	81.95	72.52	9.43	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/08/94	81.95	72.56	9.39	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	81.95	72.19	9.76	--	--	--	<50	0.6	<0.5	<0.5	<0.5	--	--
08/04/94	81.95	72.13	9.82	--	--	--	--	--	--	--	--	--	--
10/05/94	81.95	71.89	10.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
04/07/95	81.95	73.31	8.64	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	81.95	72.52	9.43	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	81.95	72.12	9.83	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	81.95	73.63	8.32	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/05/96	81.95	73.23	8.72	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	81.95	72.25	9.70	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	81.95	72.06	9.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/23/97	81.95	74.72	7.23	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/09/97	81.95	72.27	9.68	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	81.95	72.14	9.81	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	81.95	74.80	7.15	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	81.95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/02/98	81.95	72.43	9.52	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	81.95	72.14	9.81	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	81.95	73.11	8.84	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	81.95	72.01	9.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/17/00	81.95	72.70	9.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/05/00	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	81.95	73.41	8.54	0.00	--	--	423[6]	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	81.95	72.62	9.33	0.00	--	--	--	--	--	--	--	--	--
02/28/02	81.95	73.24	8.71	0.00	--	--	270	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/01/03	81.95	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-5 (cont)													
07/14/03	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/04[8]	81.95	73.91	8.04	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	81.95	73.94	8.01	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	81.95	73.89	8.06	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/23/07	81.95	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/24/07	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	81.95	73.50	8.45	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	81.95	71.69	10.26	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09	81.95	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	84.93	76.45	8.48	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	84.93	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	84.93	76.69	8.24	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	84.93	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/10/12[8]	84.93	75.91	9.02	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/14/12	**84.93**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-6													
10/18/90	80.60	70.81	9.79	--	--	--	--	--	--	--	--	--	--
10/31/90	80.60	70.91	9.69	--	--	--	<50	<0.5	<0.5	<0.5	3.0	--	--
11/16/90	80.60	70.86	9.74	--	--	--	--	--	--	--	--	--	--
02/08/91	80.60	--	--	--	--	--	--	--	--	--	--	--	--
05/08/91	80.60	71.06	9.54	--	--	--	56	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	80.60	71.10	9.50	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	80.60	71.71	8.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	80.60	72.01	8.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
07/17/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
10/05/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/11/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
11/24/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-6 (cont)													
12/29/92	80.60	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	80.60	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	80.60	--	--	--	--	--	--	--	--	--	--	--	--
02/02/93	80.60	72.89	7.71	--	--	--	<50	2.1	<0.5	<0.5	2.2	--	--
04/14/93	80.60	72.41	8.19	--	--	--	<50	1.0	<0.5	<0.5	<0.5	--	--
08/06/93	80.60	71.52	9.08	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	80.60	71.46	9.14	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/05/94	80.60	72.06	8.54	--	--	--	<50	4.0	<0.5	<0.5	<0.5	--	--
04/08/94	80.60	--	--	--	--	--	--	--	--	--	--	--	--
07/06/94	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
08/04/94	80.60	71.66	8.94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
01/18/95	80.60	73.50	7.10	--	--	--	<50	0.69	<0.5	<0.5	0.57	--	--
04/07/95	80.60	72.77	7.83	--	--	--	<50	1.8	<0.5	<0.5	<0.5	--	--
07/06/95	80.60	72.03	8.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	80.60	71.54	9.06	--	--	--	<125	<1.2	<1.2	<1.2	<1.2	540	--
01/17/96	80.60	73.20	7.40	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	180	--
04/05/96	80.60	72.70	7.90	--	--	--	<125	1.4	<1.2	<1.2	<1.2	700	--
07/23/96	80.60	71.86	8.74	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	540	--
10/02/96	80.60	71.62	8.98	--	--	--	<100	<1.0	<1.0	<1.0	1.8	910	--
01/23/97	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
04/01/97	80.60	72.22	8.38	--	--	--	<250	<2.5	<2.5	<2.5	<2.5	640	--
07/09/97	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
10/07/97	80.60	71.71	8.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	640	--
01/22/98	80.60	73.90	6.70	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	200	--
04/02/98	80.60	72.79	7.81	--	--	--	<250	<2.5	<2.5	<2.5	<2.5	480	--
07/02/98	80.60	71.62	8.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	420	--
10/02/98	80.60	71.68	8.92	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	270	--
01/18/99	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/22/99	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
01/17/00	80.60	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
07/05/00	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/15/01	80.60	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--
07/03/01	80.60	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--
02/28/02	80.60	72.70	7.90	0.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	55	--
07/08/02	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-6 (cont)													
01/01/03	80.60	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
07/14/03	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/04[8]	80.60	73.23	7.37	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/25/05[8]	80.60	73.17	7.43	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	3	--
07/26/05	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/24/06[8]	80.60	73.20	7.40	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/23/07[8]	80.60	72.53	8.07	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	8	--
07/24/07	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/22/08[8]	80.60	73.07	7.53	0.00	--	--	<50	<0.5	<0.5	1	2	4	--
07/22/08	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/13/09[8]	80.60	70.73	9.87	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	6	--
07/14/09	80.60	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/12/10[8]	83.63	75.71	7.92	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/13/10	83.63	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/25/11[8]	83.63	76.05	7.58	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/12/11	83.63	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
01/10/12[8]	83.63	75.99	7.64	0.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/14/12	**83.63**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--	--	--
MW-7													
03/08/94	86.36	74.99	11.37	--	<10	4,100	1,200	440	31	73	200	--	--
07/06/94	86.36	--	--	--	--	--	--	--	--	--	--	--	--
08/04/94	86.36	73.86	12.50	--	--	--	120	15	<0.5	3.8	1.8	--	--
10/05/94	86.36	73.99	12.37	--	--	--	150	1.2	<0.5	1.2	1.7	--	--
01/18/95	86.36	74.82	11.54	--	--	--	260	11	<1.0	17	6.8	--	--
04/07/95	86.36	75.63	10.73	--	--	--	230	<0.5	<0.5	25	0.93	--	--
07/06/95	86.36	74.36	12.00	--	--	--	320	<1.0	<1.0	<1.0	<1.0	--	6,900
10/11/95	86.36	73.56	12.80	--	--	2,300[1]	<50	<0.5	<0.5	<0.5	<0.5	120	--
01/17/96	86.36	75.90	10.46	--	--	1,700	<50	<0.5	<0.5	<0.5	<0.5	460	--
04/05/96	86.36	76.56	9.80	--	--	590	130	<0.5	<0.5	<0.5	<0.5	120	--
07/23/96	86.36	74.57	11.79	--	--	820	<500	<5.0	<5.0	<5.0	<0.5	1,200	--
10/02/96	86.36	73.10	13.26	--	--	1,500	<100	<1.0	<1.0	<1.0	<1.0	360	--
01/23/97	86.36	77.64	8.72	--	--	<500	<100	<1.0	<1.0	<1.0	<1.0	490	--
04/01/97	86.36	75.09	11.27	--	--	1,600	<250	<2.5	<2.5	<2.5	<2.5	1,200	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-7 (cont)													
07/09/97	86.36	73.92	12.44	--	--	5,700	<250	5.9	<2.5	<2.5	<2.5	1,200	--
10/07/97	86.36	73.44	12.92	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	240	--
01/22/98	86.36	75.14	11.22	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	400	--
04/02/98	86.36	75.67	10.69	--	--	<500	56	<0.5	<0.5	<0.5	<0.5	290	--
07/02/98	86.36	75.94	10.42	--	--	<500	<50	<0.5	<0.5	<0.5	<0.5	380	--
10/02/98	86.36	74.14	12.22	--	--	1,700	<50	<0.5	<0.5	<0.5	<1.5	660	--
01/18/99	86.36	75.36	11.00	--	--	543	<100	<1.0	<1.0	<1.0	<1.0	281/296[2]	--
07/22/99	86.36	74.06	12.30	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	155	--
01/17/00	86.36	75.84	10.52	--	256[1]	1,040	<50	<0.5	<0.5	<0.5	<0.5	104	--
07/05/00	86.36	74.23	12.13	0.00	--	1,400[4]	<50	<0.50	<0.50	<0.50	<0.50	110	--
01/15/01	86.36	75.23	11.13	0.00	--	2,700	<50.0	<0.500	<0.500	<0.500	<0.500	84.3	--
07/03/01	86.36	74.47	11.89	0.00	--	760[7]	<50	<0.50	<0.50	<0.50	<0.50	27	--
02/28/02	86.36	75.26	11.10	0.00	--	<1,000	<50	<0.50	<0.50	<0.50	<1.5	66	--
07/08/02	86.36	74.05	12.31	0.00	--	1,400	<50	<0.50	<0.50	<0.50	<1.5	49	--
01/01/03	86.36	76.65	9.71	0.00	--	1,300	<50	<0.50	<0.50	<0.50	<1.5	35	--
07/14/03[8]	86.36	74.01	12.35	0.00	--	130	<50	<0.5	<0.5	<0.5	<0.5	20	--
01/12/04[8]	86.36	75.66	10.70	0.00	--	250	<50	<0.5	<0.5	<0.5	<0.5	27	--
07/27/04[8]	86.36	74.08	12.28	0.00	--	730	<50	<0.5	<0.5	<0.5	<0.5	44	--
01/25/05[8]	86.36	75.56	10.80	0.00	--	980	<50	<0.5	<0.5	<0.5	<0.5	34	--
07/26/05[8]	86.36	73.69	12.67	0.00	--	1,100	<50	<0.5	<0.5	<0.5	<0.5	19	-
01/24/06[8]	86.36	75.60	10.76	0.00	--	230	<50	<0.5	<0.5	<0.5	<0.5	18	--
07/25/06[8]	86.36	74.17	12.19	0.00	--	160	<50	<0.5	<0.5	<0.5	<0.5	19	--
01/23/07[8]	86.36	74.60	11.76	0.00	--	2,100	<50	<0.5	<0.5	<0.5	<0.5	15	--
07/24/07[8]	86.36	73.91	12.45	0.00	--	3,100	<50	<0.5	<0.5	<0.5	<0.5	24	--
01/22/08[8]	86.36	75.36	11.00	0.00	--	4,400	<50	<0.5	<0.5	<0.5	<0.5	12	--
07/22/08[8]	86.36	73.38	12.98	0.00	--	200	<50	<0.5	<0.5	<0.5	<0.5	25	--
01/13/09[8]	86.36	73.85	12.51	0.00	--	1,400	<50	<0.5	<0.5	<0.5	<0.5	7	--
07/14/09[8]	86.36	73.18	13.18	0.00	--	1,000	<50	<0.5	<0.5	<0.5	<0.5	10	--
01/12/10[8]	86.36	75.01	11.35	0.00	--	1,500	<50	<0.5	<0.5	<0.5	<0.5	5	--
07/13/10[8]	86.36	73.72	12.64	0.00	--	1,100	<50	<0.5	<0.5	<0.5	<0.5	4	--
01/25/11[8]	86.36	75.30	11.06	0.00	--	2,300	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/12/11[8]	86.36	74.61	11.75	0.00	--	1,800	<50	<0.5	<0.5	<0.5	<0.5	2	--
01/10/12[8]	86.36	73.77	12.59	0.00	--	1,900	<50	<0.5	<0.5	<0.5	<0.5	2	--
09/14/12[8]	**86.36**	**73.57**	**12.79**	**0.00**	**--**	**1,100**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-8													
03/08/94	85.93	75.06	10.87	--	<10	<100	28,000	2,900	1,300	1,200	6,800	--	--
07/06/94	85.93	--	--	--	--	--	--	--	--	--	--	--	--
08/04/94	85.93	73.77	12.16	--	--	--	22,000	3,000	260	870	4,400	--	--
10/05/94	85.93	72.71	13.22	--	--	--	12,000	1,800	34	4.6	890	--	--
01/18/95	85.93	75.51	10.42	--	--	--	19,000	1,000	65	1,100	3,500	--	--
04/07/95	85.93	75.48	10.45	--	--	--	14,000	310	<25	720	1,700	--	--
07/06/95	85.93	74.30	11.63	--	--	--	19,000	280	<50	1,200	2,600	--	--
10/11/95	85.93	73.51	12.42	--	--	--	6,100	140	5.5	320	280	1,200	--
01/17/96	85.93	75.95	9.98	--	--	<500	12,000	86	<20	590	1,400	1,100	--
04/05/96	85.93	75.60	10.33	--	--	<500	7,500	180	23	410	480	560	--
07/23/96	85.93	74.56	11.37	--	--	<500	3,800	47	<5.0	350	84	1,800	--
10/02/96	85.93	73.90	12.03	--	--	<500	4,400	65	<5.0	140	28	1,500	--
01/23/97	85.93	77.73	8.20	--	--	<500	3,800	36	5.9	140	36	910	--
04/01/97	85.93	75.80	10.13	--	--	<500	6,100	43	<20	380	76	1,800	--
07/09/97	85.93	73.77	12.16	--	--	<500	7,300	48	<25	120	<25	2,400	--
10/07/97	85.93	73.77	12.16	--	--	<500	3,100	<10	<10	67	<10	1,400	--
01/22/98	85.93	75.83	10.10	--	--	<500	1,900	5.5	8.3	120	17	780	--
04/02/98	85.93	75.55	10.38	--	--	<500	2,900	43	19	110	<10	800	--
07/02/98	85.93	74.78	11.15	--	--	<500	5,000	31	<10	120	15	780	--
10/02/98	85.93	74.03	11.90	--	--	1,200[1]	2,200	6.5	<0.5	21	2.6	140	--
01/18/99	85.93	75.12	10.81	--	554	<250	2,870	<5.0	<5.0	9.02	<5.0	476/478[2]	--
07/22/99	85.93	74.38	11.55	--	--	--	2,190	<1.0	<1.0	3.51	1.61	228	--
01/17/00	85.93	75.06	10.87	--	955[1]	<500	1,220	1.3	1.56	1.56	1.87	344	--
07/05/00	85.93	74.55	11.38	0.00	--	260[5]	1,900[3]	15	6.6	<5.0	<5.0	170	--
01/15/01	85.93	75.59	10.34	0.00	--	<250	2,820	<1.00	<1.00	5.13	3.90	110	--
07/03/01	85.93	74.77	11.16	0.00	--	<250	1,900[3]	6.0	<5.0	<5.0	<5.0	46	--
02/28/02	85.93	75.26	10.67	0.00	--	<1,000	1,500	4.6	<2.0	0.80	2.2	56	--
07/08/02	85.93	74.30	11.63	0.00	--	<400	2,500	4.2	0.85	0.68	2.5	46	--
01/01/03	85.93	76.01	9.92	0.00	--	<400	1,300	2.1	0.66	1.1	2.1	45	--
07/14/03[8]	85.93	74.27	11.66	0.00	--	160	1,900	<0.5	<0.5	<0.5	<0.5	58	--
01/12/04[8]	85.93	75.92	10.01	0.00	--	<40	1,400	<0.5	<0.5	<0.5	<0.5	110	--
07/27/04[8]	85.93	74.33	11.60	0.00	--	<40	1,100	<0.5	<0.5	<0.5	<0.5	89	--
01/25/05[8]	85.93	75.96	9.97	0.00	--	130	900	<0.5	<0.5	<0.5	<0.5	52	--
07/26/05[8]	85.93	74.08	11.85	0.00	--	99	580	<0.5	<0.5	<0.5	<0.5	23	--
01/24/06[8]	85.93	76.06	9.87	0.00	--	69	620	<0.5	<0.5	<0.5	<0.5	31	--
07/25/06[8]	85.93	74.77	11.16	0.00	--	<40	420	<0.5	<0.5	<0.5	<0.5	20	--

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Oakland, California

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MW-8 (cont)													
01/23/07[8]	85.93	74.78	11.15	0.00	--	200	710	<0.5	<0.5	<0.5	<0.5	26	--
07/24/07[8]	85.93	74.15	11.78	0.00	--	730	560	<0.5	<0.5	<0.5	<0.5	30	--
01/22/08[8]	85.93	75.59	10.34	0.00	--	500	520	<0.5	<0.5	<0.5	<0.5	27	--
07/22/08[8]	85.93	73.86	12.07	0.00	--	90	330	<0.5	<0.5	<0.5	<0.5	21	--
01/13/09[8]	85.93	74.35	11.58	0.00	--	62	360	<0.5	<0.5	<0.5	<0.5	14	--
07/14/09[8]	85.93	73.68	12.25	0.00	--	90	500	<0.5	<0.5	<0.5	<0.5	10	--
01/12/10[8]	85.95	75.50	10.45	0.00	--	100	370	<0.5	<0.5	<0.5	<0.5	8	--
07/13/10[8]	85.95	74.33	11.62	0.00	--	73	260	<0.5	<0.5	<0.5	<0.5	6	--
01/25/11[8]	85.95	75.88	10.07	0.00	--	<40	200	<0.5	<0.5	<0.5	<0.5	4	--
07/12/11[8]	85.95	75.25	10.70	0.00	--	56	120	<0.5	<0.5	<0.5	<0.5	3	--
01/10/12[8]	85.95	74.27	11.68	0.00	--	130	140	<0.5	<0.5	<0.5	<0.5	3	--
09/14/12[8]	**85.95**	**74.15**	**11.80**	**0.00**	--	**72**	**61**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2**	--
TRIP BLANK													
03/12/90	--	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--
02/08/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/08/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/12/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/07/91	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/05/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/13/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/92	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/92	--	--	--	--	--	--	--	--	--	--	--	--	--
11/17/92	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/92	--	--	--	--	--	--	--	--	--	--	--	--	--
12/01/92	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/92	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/93	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/02/93	--	--	--	--	--	--	--	--	--	--	--	--	--
04/14/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/06/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/21/93	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/05/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
TRIP BLANK (cont)													
04/08/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/04/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/18/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/06/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/17/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/05/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/96	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/23/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/01/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/09/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/02/98	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/18/99	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/05/00	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
01/15/01	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
07/03/01	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA													
02/28/02	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/08/02	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
01/01/03	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
07/14/03[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/12/04[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/04[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/25/05[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/26/05[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/24/06[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/25/06[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/23/07[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-MO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
QA (cont)													
07/24/07[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/22/08[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/22/08[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/13/09[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/14/09[8]	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED													
09/14/12[8]	--	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to July 5, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
SPHT = Separate Phase Hydrocarbon Thickness
TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics
MO = Motor Oil
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes

MTBE = Methyl Tertiary Butyl Ether
TOG = Total Oil & Grease
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on October 27, 2009, by Virgil Chavez Land Surveying. The benchmark for this survey was a cut square on top of easterly curb of Broadway, opposite 5718 Broadway. Benchmark Elevation = 180.06 feet. Vertical Datum is NGVD 29 from GPS observations.

[1] Laboratory report indicates an unidentified hydrocarbon.

[2] Confirmation run.

[3] Laboratory report indicates gasoline C6-C12.

[4] Laboratory report indicates motor oil C16-C36.

[5] Laboratory report indicates unidentified hydrocarbons C9-C24.

[6] Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. The pattern more closely resembles that of a heavier fuel.

[7] Laboratory report indicates unidentified hydrocarbons >C16.

[8] BTEX and MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1	07/14/03	<50	--	5	--	--	--
	01/12/04	<50	--	61	--	--	--
	07/27/04	<50	--	54	--	--	--
	01/25/05	<50	--	5	--	--	--
	07/26/05	<50	--	25	--	--	--
	01/24/06	<50	--	25	--	--	--
	07/25/06	<50	--	14	--	--	--
	01/23/07	<50	--	17	--	--	--
	07/24/07	<50	--	7	--	--	--
	01/22/08	<50	--	8	--	--	--
	07/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	2	--	--	--
	01/12/10	--	--	15	--	--	--
	01/25/11	--	--	5	--	--	--
	01/10/12	--	--	2	--	--	--
MW-2	07/14/03	<50	--	<0.5	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	07/27/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	07/26/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	07/25/06	<50	--	<0.5	--	--	--
	01/23/07	<50	--	<0.5	--	--	--
	07/24/07	<50	--	<0.5	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	07/22/08	<50	--	2	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
	01/10/12	--	--	<0.5	--	--	--
MW-3	07/14/03	<50	--	43	--	--	--
	01/12/04	<50	--	2	--	--	--
	07/27/04	<50	--	41	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-3 (cont)	01/25/05	<50	--	27	--	--	--
	07/26/05	<50	--	12	--	--	--
	01/24/06	<50	--	0.8	--	--	--
	07/25/06	<50	--	23	--	--	--
	01/23/07	<50	--	2	--	--	--
	07/24/07	<50	--	20	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	07/22/08	<50	--	7	--	--	--
	01/13/09	<50	--	10	--	--	--
	01/12/10	--	--	14	--	--	--
	01/25/11	--	--	4	--	--	--
	01/10/12	--	--	1	--	--	--
MW-4	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	01/23/07	<50	--	<0.5	--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
	01/10/12	--	--	<0.5	--	--	--
MW-5	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	<0.5	--	--	--
	01/25/05	<50	--	<0.5	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	01/23/07	INACCESSIBLE - VEHICLE PARKED OVER WELL			--	--	--
	01/22/08	<50	--	<0.5	--	--	--
	01/13/09	<50	--	<0.5	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
	01/10/12	--	--	<0.5	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-6	07/14/03	SAMPLED ANNUALLY		--	--	--	--
	01/12/04	<50	--	25	--	--	--
	01/25/05	<50	--	3	--	--	--
	01/24/06	<50	--	<0.5	--	--	--
	01/23/07	<50	--	8	--	--	--
	01/22/08	<50	--	4	--	--	--
	01/13/09	<50	--	6	--	--	--
	01/12/10	--	--	<0.5	--	--	--
	01/25/11	--	--	<0.5	--	--	--
	01/10/12	--	--	<0.5	--	--	--
MW-7	07/14/03	<50	--	20	--	--	--
	01/12/04	<50	--	27	--	--	--
	07/27/04	<50	--	44	--	--	--
	01/25/05	<50	--	34	--	--	--
	07/26/05	<50	--	19	--	--	--
	01/24/06	<50	--	18	--	--	--
	07/25/06	<50	--	19	--	--	--
	01/23/07	<50	--	15	--	--	--
	07/24/07	<50	--	24	--	--	--
	01/22/08	<50	--	12	--	--	--
	07/22/08	<50	--	25	--	--	--
	01/13/09	<50	--	7	--	--	--
	07/14/09	--	--	10	--	--	--
	01/12/10	--	--	5	--	--	--
	07/13/10	--	--	4	--	--	--
	01/25/11	--	--	2	--	--	--
	07/12/11	--	--	2	--	--	--
	01/10/12	--	--	2	--	--	--
	09/14/12	--	--	**2**	--	--	--
MW-8	07/14/03	<50	--	58	--	--	--
	01/12/04	<50	--	110	--	--	--
	07/27/04	<50	--	89	--	--	--
	01/25/05	<50	--	52	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583

5509 Martin Luther King Way

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-8 (cont)	07/26/05	<50	--	23	--	--	--
	01/24/06	<50	--	31	--	--	--
	07/25/06	<50	--	20	--	--	--
	01/23/07	<50	--	26	--	--	--
	07/24/07	<50	--	30	--	--	--
	01/22/08	<50	--	27	--	--	--
	07/22/08	<50	--	21	--	--	--
	01/13/09	<50	--	14	--	--	--
	07/14/09	--	--	10	--	--	--
	01/12/10	--	--	8	--	--	--
	07/13/10	--	--	6	--	--	--
	01/25/11	--	--	4	--	--	--
	07/12/11	--	--	3	--	--	--
	01/10/12	--	--	3	--	--	--
	09/14/12	--	--	**2**	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-1583
5509 Martin Luther King Way
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHODS:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 9/14/12 (inclusive)
City: Oakland, CA | Sampler: HAIG R

Well ID: MW-1 | Date Monitored: 9/14/12
Well Diameter: 2 (3) in.
Total Depth: 19.15 ft.
Depth to Water: 9.99 ft.
9.76 xVF ____ = ____ x3 case volume = Estimated Purge Volume: N/A gal.

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

☐ Check if water column is less then 0.50 ft.

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

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

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

M / O

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

Start Time (purge): ____ | Weather Conditions: CLOUDY
Sample Time/Date: N/A / ____ | Water Color: ____ Odor: Y / N ____
Approx. Flow Rate: ____ gpm. | Sediment Description: ____
Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: N/A

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-1583** Job Number: **386506**

Site Address: **5509 Martin Luther King Way** Event Date: 9/14/12 (inclusive)

City: **Oakland, CA** Sampler: HA C R

Well ID MW- 2

Well Diameter 2 (3) in.

Total Depth 18.95 ft.

Depth to Water 10.45 ft.

Date Monitored: 9/14/12

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

☐ Check if water column is less then 0.50 ft.

8.50 xVF _____ = _____ x3 case volume = Estimated Purge Volume: N/A gal.

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

Purge Equipment:

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

Sampling Equipment:

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

M / O

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

Start Time (purge): _____ Weather Conditions: CLOUDY

Sample Time/Date: N/A / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: N/A

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCl	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 9/14/12 (inclusive)
City: Oakland, CA | Sampler: HAIG K.

Well ID: MW-3
Well Diameter: 2 (3) in.
Total Depth: 19.60 ft.
Depth to Water: 11.76 ft.
4.84 xVF ____ = ____
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: N/A

Date Monitored: 9/14/12

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

☐ Check if water column is less then 0.50 ft.

x3 case volume = Estimated Purge Volume: N/A gal.

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

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

M / O

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

Start Time (purge): ____ Weather Conditions: CLOUDY
Sample Time/Date: N/A / ____ Water Color: ____ Odor: Y / N ____
Approx. Flow Rate: ____ gpm. Sediment Description: ____
Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: N/A

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS: M / O

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 9/14/12 (inclusive)
City: Oakland, CA | Sampler: HAIG K.

Well ID: MW-7
Well Diameter: (2) 3 in.
Total Depth: 19.15 ft.
Depth to Water: 12.79 ft.
Date Monitored: 9/14/12

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

☐ Check if water column is less then 0.50 ft.

6.96 xVF 0.17 = 1.18 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.18

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

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

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

Start Time (purge): 1148
Sample Time/Date: 1210 / 9/14/12
Approx. Flow Rate: — gpm.
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.20

Weather Conditions: CLOUDY
Water Color: CLOUDY Odor: (Y) / N MODERATE
Sediment Description:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1153	1.5	7.29	289	18.5		
1156	2.5	7.24	284	18.7		
1159	3.5	7.21	282	18.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1583 | Job Number: 386506
Site Address: 5509 Martin Luther King Way | Event Date: 9/14/12 (inclusive)
City: Oakland, CA | Sampler: HAIGK

Well ID: MW-8
Well Diameter: (2) 3 in.
Total Depth: 16.10 ft.
Depth to Water: 11.80 ft.
4.30 xVF 0.17 = 0.73 x3 case volume = Estimated Purge Volume: 2.19 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.66

Date Monitored: 9/14/12

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

☐ Check if water column is less then 0.50 ft.

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

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

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

Start Time (purge): 1232
Sample Time/Date: 1255 9/14/12
Approx. Flow Rate: ~ gpm.
Did well de-water? NO If yes, Time: Volume: gal.
Weather Conditions: CLOUDY
Water Color: Odor: (Y) / N SLIGHT
Sediment Description:
DTW @ Sampling: 11.97

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O (mg/L)	ORP (mV)
1236	0.75	7.22	240	19.1		
1238	1.5	7.20	246	19.2		
1241	2.25	7.19	245	19.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO (8015)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

1 Labs

09142-08

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Acct. #: 10904 Sample #: 6790359-61 Group #: 010343

C# 1335964

Facility #: SS#9-1583-OML G-R#386506 GlobalID#T0600100348
5509 MARTIN LUTHER KING WAY, OAKLAND, CA

Site Address:

Chevron PM: AF CRAKJ Kiernan

Lead Consultant: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant/Office: Deanne L. Harding (deanne@grinc.com)

Consultant Prj. Mgr.:

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: HAIG KEVORK

Matrix: ☐ Potable ☐ NPDES; Soil, ☐ Water, ☐ Oil, ☐ Air

Analyses Requested / Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-MO (8015)
QA	9/14/12		X										
MW-7	↓	1210	X		3	X	X						X
MW-8		1255	X		3	X	X						X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☒ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT | 72 hour | 48 hour
24 hour | 4 day | 5 day

Data Package Options (please circle if required)
QC Summary | Type I - Full | EDF/EDD
Type VI (Raw Data) | ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	9/14/12	1430	Received by:	9/14/12	1430
Relinquished by:	14SEP12	1638	Received by: FEDEX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	9/15/12	950
Temperature Upon Receipt 1.0°-2.1° C°			Custody Seals Intact? (Yes) No		

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

October 16, 2012

Project: 91583

Submittal Date: 09/15/2012
Group Number: 1335964
PO Number: 0015110336
Release Number: WAITE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-120914 NA Water	6790359
MW-7-W-120914 Grab Water	6790360
MW-8-W-120914 Grab Water	6790361

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: James Kiernan

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Analysis Report

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Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

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Analysis Report

Sample Description: QA-T-120914 NA Water
Facility# 91583 Job# 386506 GRD
5509 Martin Luther King Wa T0600100348 QA

LLI Sample # WW 6790359
LLI Group # 1335964
Account # 10904

Project Name: 91583

Collected: 09/14/2012

Submitted: 09/15/2012 09:50
Reported: 10/16/2012 13:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MLKTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F122652AA	09/21/2012 07:39	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122652AA	09/21/2012 07:39	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12263A07A	09/20/2012 00:32	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12263A07A	09/20/2012 00:32	Marie D John	1

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Analysis Report

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Sample Description: MW-7-W-120914 Grab Water
Facility# 91583 Job# 386506 GRD
5509 Martin Luther King Wa T0600100348 MW-7

LLI Sample # WW 6790360
LLI Group # 1335964
Account # 10904

Project Name: 91583

Collected: 09/14/2012 12:10 by HK

Submitted: 09/15/2012 09:50
Reported: 10/16/2012 13:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MLK-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		ug/l	ug/l	
02500	Total TPH	n.a.	1,100	40	1
02500	TPH Motor Oil C16-C36	n.a.	1,100	40	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F122651AA	09/21/2012 12:14	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122651AA	09/21/2012 12:14	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12263A07A	09/20/2012 02:14	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12263A07A	09/20/2012 02:14	Marie D John	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	122630028A	09/21/2012 05:01	Heather E Williams	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	122630028A	09/20/2012 10:00	William H Saadeh	1

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Analysis Report

Sample Description: MW-8-W-120914 Grab Water
Facility# 91583 Job# 386506 GRD
5509 Martin Luther King Wa T0600100348 MW-8

LLI Sample # WW 6790361
LLI Group # 1335964
Account # 10904

Project Name: 91583

Collected: 09/14/2012 12:55 by HK

Submitted: 09/15/2012 09:50
Reported: 10/16/2012 13:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

MLK-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	61	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02500	Total TPH	n.a.	72	39	1
02500	TPH Motor Oil C16-C36	n.a.	72	39	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F122651AA	09/21/2012 12:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122651AA	09/21/2012 12:36	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12263A07A	09/20/2012 02:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12263A07A	09/20/2012 02:39	Marie D John	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	122630028A	09/21/2012 05:46	Heather E Williams	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	122630028A	09/20/2012 10:00	William H Saadeh	1

Quality Control Summary

Client Name: Chevron
Reported: 10/16/12 at 01:14 PM

Group Number: 1335964

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: F122651AA	Sample number(s): 6790360-6790361							
Benzene	N.D.	0.5	ug/l	92		77-121		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		68-121		
Toluene	N.D.	0.5	ug/l	96		79-120		
Xylene (Total)	N.D.	0.5	ug/l	94		77-120		
Batch number: F122652AA	Sample number(s): 6790359							
Benzene	N.D.	0.5	ug/l	92		77-121		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		68-121		
Toluene	N.D.	0.5	ug/l	94		79-120		
Xylene (Total)	N.D.	0.5	ug/l	96		77-120		
Batch number: 12263A07A	Sample number(s): 6790359-6790361							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 122630028A	Sample number(s): 6790360-6790361							
Total TPH	N.D.	40.	ug/l	88	90	32-121	2	20
TPH Motor Oil C16-C36	N.D.	40.	ug/l					

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: F122651AA	Sample number(s): 6790360-6790361 UNSPK: P790395								
Benzene	102	101	72-134	0	30				
Ethylbenzene	98	98	71-134	1	30				
Methyl Tertiary Butyl Ether	100	102	72-126	2	30				
Toluene	102	103	80-125	1	30				
Xylene (Total)	99	99	79-125	0	30				
Batch number: F122652AA	Sample number(s): 6790359 UNSPK: P790356								
Benzene	100	99	72-134	0	30				
Ethylbenzene	104	102	71-134	2	30				
Methyl Tertiary Butyl Ether	96	98	72-126	1	30				
Toluene	101	100	80-125	1	30				
Xylene (Total)	103	100	79-125	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: Chevron
Reported: 10/16/12 at 01:14 PM

Group Number: 1335964

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: UST VOCs by 8260B - Water
Batch number: F122651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6790360	104	99	97	94
6790361	106	97	97	99
Blank	103	97	98	94
LCS	103	100	98	102
MS	103	97	98	102
MSD	104	98	97	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F122652AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6790359	109	99	100	96
Blank	106	99	101	98
LCS	104	99	99	102
MS	106	99	100	105
MSD	106	101	99	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12263A07A

	Trifluorotoluene-F
6790359	88
6790360	86
6790361	87
Blank	85
LCS	101
LCSD	103
Limits:	63-135

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 122630028A

	Chlorobenzene	Orthoterphenyl
6790360	93	90
6790361	94	92
Blank	83	87
LCS	90	95
LCSD	93	99
Limits:	28-152	52-131

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: Chevron
Reported: 10/16/12 at 01:14 PM

Group Number: 1335964

*- 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.

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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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

ATTACHMENT C

LOW-THREAT CHECKLIST

Site Name: Chevron #9-1583
Site Address: 5509 Martin Luther King Jr. Way, Oakland

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