

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

REBECCA GEBHART, Interim Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
For Hazardous Materials Releases
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

August 11, 2017

Mr. David Patten
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to: drpatten@chevron.com)

Subject: Case Closure for Fuel Leak Case No. RO0000342; (Global ID # T0600102076); Chevron #9-4800, 1700 Castro Street, Oakland, CA 94612

Dear Mr. Patten:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites.

We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.waterboards.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use as a commercial service station. Site Management Requirements are further described in the attached Case Closure Summary.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dilan Roe".

Dilan Roe, P.E.
LOP and SCP Program Manager

Enclosures: 1. Remedial Action Completion Certification
 2. Case Closure Summary

Cc w/enc.: Kiersten Hoey, GHD Services, Inc., 5900 Hollis Street, Suite A, Emeryville, CA 94608;
(Sent via electronic mail to: Kiersten.hoey@ghd.com)

Laurent Meillier, San Francisco Bay Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612; (Sent via electronic mail to: laurent.meillier@waterboards.ca.gov)

Mark Johannes Arniola, City of Oakland Public Works, 250 Frank H. Ogawa Plaza, Suite 5301, Oakland, CA 94612; (Sent via electronic mail to: marniola@oaklandnet.com)

Chandra Johannesson, EBMUD, PO Box 24055, MS 702, Oakland, CA 94623; (Sent via electronic mail to: cjohanne@ebmud.com)

Mr. David Patten
RO0000342
August 11, 2017, Page 2

Dilan Roe, ACDEH; (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org)
Mark Detterman, ACDEH; (Sent via electronic mail to: mark.detterman@acgov.org)
Electronic File, GeoTracker

ALAMEDA COUNTY
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AGENCY**

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1131 HARBOR BAY PARKWAY
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REMEDIAL ACTION COMPLETION CERTIFICATION

August 11, 2017

Mr. David Patten
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to: drpatten@chevron.com)

Subject: Case Closure for Fuel Leak Case No. RO0000342; (Global ID # T0600102076); Chevron #9-4800,
1700 Castro Street, Oakland, CA 94612

Dear Mr. Patten:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ronald Browder
Director

Underground Storage Tank Case Closure Summary Form

Agency Information

Date: April 11, 2017

Alameda County Department of Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Case Worker: Mark Detterman	Title: Senior Hazardous Materials Specialist

Case Information

Facility Name: Chevron #9-4800		
Facility Address: 1700 Castro Street, Oakland, CA 94612		
Regional Water Board LUSTIS Case No: 01-2260	Former ACDEH Case No.: 3644	Current LOP Case No.: RO0000342
Unauthorized Release Form Filing Date: 2/19/1997	State Water Board GeoTracker Global ID: T0600102076	
Assessor Parcel Number: 3-59-13-2	Current Land Use: Commercial Service Station	
Responsible Party(s):	Address:	Phone:
Chevron Environmental Management Co. c/o Mr. David Patten	6101 Bollinger Canyon Road San Ramon, CA 94583	----

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place / Removed / Active	Date
----	700-gallon	Heating Oil	Removed	1/23/1987
----	10,000-gallon	Gasoline	Removed	4/8/2004
----	10,000-gallon	Gasoline	Removed	4/8/2004
----	10,000-gallon	Gasoline	Removed	4/8/2004
----	10,000-gallon	Gasoline	Removed	4/8/2004
---	15,00-gallon	Gasoline	Active	----
----	20,000-gallon	Gasoline	Active	----

Underground Storage Tank Case Closure Summary Form

Site History

Current Land-use at time of Case Closure

The subject property (APN 003-00590-13-02) is located 1700 Castro Street, in the western portion of the City of Oakland near Interstate 980. At the time of this case closure, the site is a current active Chevron Gasoline Station with a convenient store building located near the eastern property boundary and accordingly this case is closed to the current commercial land-use risk scenario, consisting of an active gasoline service station with a convenient store structure developed at the site. Due to residual contamination, the site was closed with site management requirements that include notifying Alameda County Department of Environmental Health (ACDEH) of a proposed change in land use to any residential or conservative land use, or if any redevelopment or building alteration is proposed that affect or disturb the existing subsurface conditions at the site.

Adjacent Property(ies) Land-use at Time of Case Closure

At the time of this case closure, groundwater contamination extended off-site underneath Castro Street. However, should off-site redevelopment occur, ACDEH recommends evaluating the redevelopment site(s) for chemicals of concern identified on this site.

Historic Land-use / Site Investigation

The site is an active Chevron Service Station site, where an unauthorized release was discovered during a UST system upgrade in February 1997 to install under dispenser pans. In May 1997 wells MW-1 to MW-3 were installed. In March 1999 wells MW-4 to MW-6 were installed. In March 2001 well MW-7 was installed. In March 2004 bores B1 to B4 were installed to re-characterize soil for the installation of a new UST complex for a station remodel. In April 2004 four 10,000-gallon gasoline USTs were removed from the site, and two new USTs were installed in a new area south of the old UST complex. No other investigation or cleanup was performed in relation to the dispenser islands or USTs.

The downgradient extent of the MTBE plume was defined using the State Water Board's (SWB) *Technical Justification for Groundwater Media-Specific Criteria*, dated April 24, 2012 by determining the area of the maximum extent of a potential MTBE groundwater plume as documented by the SWB paper, and requesting that the area be canvassed to determine the potential for an unknown private water supply well to be present and extract groundwater. After multiple attempts to identify one potential well owner, the address was identified, and the owner verbally indicated a well was not present at the address. The well location is at an approximate distance of 1,070 feet to the northwest. In general, groundwater flows to the west. The SWB paper found that the maximum plume length for methyl tert butyl ether (MTBE) is 1,046 feet. Because the potential well is at a distance greater than the SWB's maximum MTBE plume length and is located cross-gradient to the predominant direction of groundwater flow, the potential well does not appear to be at risk as a sensitive receptor from MTBE contamination released at the site.

Potential Exposure to Chemicals of Concern

The USTs that were used to store diesel and gasoline are believed to be the source of the contamination discovered at the site. The main chemicals of concern (COCs) associated with the USTs and detected at the site were TPH-d, TPH-g, BTEX, and SVOCs including naphthalene. Inhalation and ingestion appear to have been the most likely potential routes of exposure to these COCs.

Underground Storage Tank Case Closure Summary Form

Remediation Activities

Source removal of the UST was performed at the site. No additional corrective actions was performed at the site.

Case Closure & Future Site Management Requirements

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). This site does not meet the Direct Contact criterion due to residual soil concentrations of benzene between 0 to 5 and 5 to 10 feet bgs that exceed the LTCP criteria; however, these soil samples are over 19 years old, were located in a silty sand matrix, and are expected to have decreased by natural processes in the intervening years. ACDEH has evaluated case information and, as a result of controlling exposure through the use of institutional and engineering controls, has determined that the concentrations of petroleum constituents in soil will not have a significant risk of adversely affecting human health. Specifically, except for limited areas around the perimeter of the site, the site is entirely paved and exposure to site soils is prevented, except in controlled conditions. Additionally, exposure to contaminated soil and soil vapors is limited by low permeability pavements. As a commercial fueling facility, maintenance or construction workers employed at the facility are required by California regulations to be trained in health and safety concerns associated with volatile motor fuels, and thus are expected to be prepared for potential exposures in their standard work routines. Potential exposures to the general public are expected to be transitory and could occur only while temporarily present for the purpose of fueling their vehicles or obtaining related automotive services.

This site also does not meet the Direct Contact criterion due to the lack of analysis in soil for naphthalene at sampling locations CT-4 and CB-6 that document the highest residual soil concentrations for TPH as gasoline and TPH as diesel at the site. The locations are not currently available for sampling as they are near or beneath existing product pipeline runs. The LUFT manual indicates that naphthalene is present at an average of 0.25% and a maximum of 0.36% in fresh gasoline product and an average of 0.26% and a maximum of 0.8% in fresh diesel. This indicates that naphthalene may be present at a concentration up to 5.12 mg/kg at these samples. This is below the Table 1 criteria for naphthalene for a commercial facility.

Due to residual contamination at the site, the site is closed as a commercial site with site management requirements. If there is a proposed change in land use to any residential, or conservative land use, or if any redevelopment occurs including station building modification, ACDEH must be notified as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed redevelopment. Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

Underground Storage Tank Case Closure Summary Form

Site Closure Evaluation Summary

This UST release case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants.

Refer to Attachments 1 through 5 for analysis details.

Site Management Requirements

Case closure is granted for the current commercial service station land use.

Due to residual subsurface contamination remaining at the site, if any redevelopment occurs, or if a proposed change in land use to residential, or other conservative land use, Alameda County Department of Environmental Health (ACDEH) must be notified as required by Government Code Section 65850.2.

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

Institutional Controls

Not Applicable

Engineering Controls




Not Applicable

Underground Storage Tank Case Closure Summary Form

Case Closure Public Notification Information

Agency Type	Agency Name	Contact Information
Regional Water Board	San Francisco Bay	Laurent Meillier 1515 Clay Street, Suite 1400, Oakland, CA 94612
Municipal and County Water Districts	East Bay Municipal Utility District	Chandra Johannesson P.O. Box 24055, MS 702 Oakland, CA 94623
Water Replenishment Districts	Not Applicable	----
Groundwater Basin Managers	Not Applicable	----
Planning Agency	City of Oakland	Dave Harlan 250 Frank H. Ogawa Plaza, Suite 2114 Oakland, CA 94612
Public Works Agency	City of Oakland	Mark Arniola Public Works Environmental Services 250 Frank H. Ogawa Plaza, Suite 4314 and 5301 Oakland, CA 94612
Owners and Occupants of Property and Adjacent Parcels	See List in Attachment 7	----

Local Agency Signatures

Case Worker: Mark Detterman	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 8/14/2017
Paresh Khatri	Title: LOP Supervisor
Signature: 	Date: 8/14/2017
Dilan Roe	Title: Chief, Land Water Division
Signature: 	Date: 8/14/2017

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Department of Environmental Health (ACDEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACDEH website.

Geotracker Conceptual Site Model (Attachment 1, 2 pages)

Geotracker LTCP Checklist (Attachment 2, 1 page)

Groundwater Evaluation and Data (Attachment 3, 30 pages)

Vapor Intrusion Evaluation and Data (Attachment 4, 2 pages)

Underground Storage Tank Case Closure Summary Form

Soil Evaluation and Data (Attachment 5, 13 pages)

Responsible Party Information (Attachment 6, 10 pages)

Case Closure Public Notification Information (Attachment 7, 7 pages)

ATTACHMENT 1

CHEVRON #9-4800 (T0600102076) - [MAP THIS SITE](#) PUBLIC PAGE

1700 CASTRO STREET
 OAKLAND, CA 94612
 ALAMEDA COUNTY
 LUST CLEANUP SITE
 STATUS: OPEN - ELIGIBLE FOR CLOSURE

PERTINENT INFORMATION:
 CUF Claim #: 15502 CUF Priority Assigned: D CUF Amount Paid: \$0

CLEANUP OVERSIGHT AGENCIES
 ALAMEDA COUNTY LOP (LEAD) - CASE #: R00000342 - [MARK DETTERMAN](#)
 SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-2260 - [Regional Water Board](#)

- [Activities Report](#) |
 [Documents / Data](#) |
 [Environmental Conditions](#) |
 [Admin](#) |
 [Funding](#) |
 [Case Reviews](#)

THIS PROJECT WAS LAST MODIFIED BY [MARK DETTERMAN](#) ON 4/11/2017 11:04:16 AM - [HISTORY](#)

CSM REPORT - [VIEW PUBLIC NOTICING VERSION OF THIS REPORT](#)

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	FIVE YEAR REVIEW INFORMATION				
							REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE
15502	D	CHEVRON PRODUCTS COMPANY 6001 BOLLINGER CANYON ROAD, ROOM C-2106, SAN RAMON CA 94583-2324	1700 CASTRO ST OAKLAND, CA 94612				1	Kirk T. Larson			

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
CHEVRON #9-4800 (Global ID: T0600102076) 1700 CASTRO STREET OAKLAND, CA 94612	Open - Eligible for Closure	5/12/2016	2/19/1997	20	ALAMEDA COUNTY LOP (LEAD) - CASE #: R00000342 CASEWORKER: MARK DETTERMAN - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-2260 CASEWORKER: Regional Water Board - SUPERVISOR: NONE SPECIFIED

STAFF NOTES (INTERNAL)

Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Department of Environmental Health website at: <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>.
RSR/CSM initiated 07/22/14 MLC

SITE HISTORY

Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Department of Environmental Health (ACDEH) website at: <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>.

During a UST system upgrade in February 1997 to install under dispenser pans a release was noted. In February 1997 hand augured bores CB-1 to CB-12 were installed to further investigate the release. In May 1997 wells MW-1 to MW-3 were installed. In March 1999 wells MW-4 to MW-6 were installed. In March 2001 well MW-7 was installed. In March 2004 bores B1 to B4 were installed to recharacterize soil for the installation of a new UST complex for a station remodel. In April 2004 four 10,000-gallon gasoline USTs were removed from the site, and two new USTs were installed in a new area south of the old UST complex. The downgradient extent of the MTBE plume has not been defined in an older neighborhood of Oakland with a very high incidence of historical wells. If usable, the wells could be pressed into service during drought years. Consistent with the State Water Board's Technical Justification for Groundwater Media-Specific Criteria, dated April 24, 2012, ACDEH requested the maximum extent of a potential MTBE groundwater plume be canvassed to determine the potential for this event to occur. After multiple attempts to identify one potential well owner, the address was identified, and the owner verbally indicated a well was not present at the address. The well location is at an approximate distance of 1,070 feet to the northwest. In general, groundwater flows to the west. The State Water Board has also found (Technical Justification for Groundwater Media-Specific Criteria, April 24, 2012) that the maximum plume length for methyl tert butyl ether (MTBE) is 1,046 feet. Because the potential well is at a distance greater than the SWB's maximum MTBE plume length and is located cross-gradient to the predominant direction of groundwater flow, the potential well does not appear to be at risk as a sensitive receptor from MTBE contamination released at the site.

This site does not meet the Direct Contact criterion due to residual soil concentrations of benzene between 0 to 5 and 5 to 10 feet bgs that exceed the LTCF criteria; however, these soil samples are over 19 years old, were located in a silty sand matrix, and are expected to have decreased by natural processes in the intervening years. ACDEH has evaluated case information and, as a result of controlling exposure through the use of institutional and engineering controls, has determined that the concentrations of petroleum constituents in soil will not have a significant risk of adversely affecting human health. Specifically, except for limited areas around the perimeter of the site, the site is entirely paved and exposure to site soils is prevented, except in controlled conditions. Additionally, exposure to contaminated soil and soil vapors is limited by low permeability pavements. As a commercial fueling facility, maintenance or construction workers employed at the facility are required by California regulations to be trained in health and safety concerns associated with volatile motor fuels, and thus are expected to be prepared for potential exposures in their standard work routines. Potential exposures to the general public are expected to be transitory and could occur only while temporarily present for the purpose of fueling their vehicles or obtaining related automotive services.

This site also does not meet the Direct Contact criterion due to the lack of analysis in soil for naphthalene at sampling locations CT-4 and CB-6 that document the highest residual soil concentrations for TPH as gasoline and TPH as diesel at the site. The locations are not currently available for sampling as they are near or beneath existing product pipeline runs. The LUFT manual indicates that naphthalene is present at an average of 0.25% and a maximum of 0.36% in fresh gasoline product and an average of 0.26% and a maximum of 0.8% in fresh diesel. This indicates that naphthalene may be present at a concentration up to 5.12 mg/kg at these samples. This is below the Table 1 criteria for naphthalene for a commercial facility.

Excavation or construction activities in areas of potential residual contamination will be managed with a land use restriction, and require planning and implementation of appropriate health and safety procedures by the responsible party, or current property owner, prior to and during excavation and construction activities.

Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the ACDEH website at: <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
AARON COSTA	CHEVRON CORPORATION	6111 BOLLINGER CANYON ROAD RM 3660	SAN RAMON	
MARK HORNE	Chevron Environmental Management Company	6101 BOLLINGER CANYON ROAD	SAN RAMON	markhorne@chevron.com

CLEANUP ACTION INFO

NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
MTBE / TBA / Other Fuel Oxygenates, Gasoline	Commercial	GW - Municipal and Domestic Supply	Dispenser, Piping	2/19/1997	Repair Product Piping	0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	EBMUD	9/6/2016	2/21/2017	2/18/2016		4/11/2014

CDPH WELLS WITHIN 1500 FEET OF THIS SITE

NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN	GW BASIN NAME	WATERSHED NAME
003 005901302	Santa Clara Valley - East Bay Plain (2-9.04)	South Bay - East Bay Cities (204.20)
COUNTY	PUBLIC WATER SYSTEM(S)	
Alameda	EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [HIDE](#)

	FIELD PT NAME	DATE	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
MW-1		12/23/2015	OTHER	ND	ND	ND	ND	ND	
MW-2		12/23/2015	OTHER	ND	ND	ND	ND	ND	
MW-3		12/23/2015	OTHER	ND	ND	ND	ND	7 UG/L	
MW-4		12/23/2015	OTHER	ND	ND	ND	ND	13 UG/L	
MW-5		12/31/2003	OTHER	ND	ND	ND	ND	ND	
MW-6		12/31/2003	OTHER	ND	ND	ND	0.5 UG/L	14 UG/L	
MW-7		6/19/2015	OTHER	ND	ND	ND	ND	910 UG/L	ND
QA		12/1/2010	OTHER	ND	ND	ND	ND	ND	

FIELD PT NAME	DATE	TPHs OTHER OTHER	BENZENE ND ND	TOLUENE ND ND	ETHYL-BENZENE ND ND	XYLENES ND ND	MTBE ND ND	TBA
MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - HIDE								
VIEW ESI SUBMITTALS								
FIELD PT NAME	DATE	TPHs	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
COMP	8/6/2004		ND	ND	ND	ND	ND	ND
P1	4/8/2004		ND	ND	ND	280 UG/KG	2600 UG/KG	1200 UG/KG
P10	4/15/2004		0.027 MG/KG	0.043 MG/KG	0.017 MG/KG	280 UG/KG	6300 UG/KG	ND
P11	4/15/2004		ND	ND	ND	ND	2600 UG/KG	ND
P2	4/8/2004		ND	ND	ND	ND	39 UG/KG	ND
P3	4/15/2004		ND	ND	ND	ND	2800 UG/KG	ND
P4	4/8/2004		ND	ND	ND	ND	200 UG/KG	73 UG/KG
P5	4/8/2004		ND	ND	ND	ND	700 UG/KG	270 UG/KG
P6	4/8/2004		ND	ND	ND	ND	46 UG/KG	ND
P7	4/8/2004		ND	ND	ND	ND	600 UG/KG	ND
P8	4/8/2004		ND	ND	ND	ND	45 UG/KG	120 UG/KG
P9	4/8/2004		ND	ND	ND	ND	270 UG/KG	ND
S10	4/13/2004		ND	ND	0.14 MG/KG	0.67 MG/KG		
S11	4/13/2004		ND	ND	0.28 MG/KG	0.91 MG/KG		
S4	4/14/2004		ND	ND	1 MG/KG	3.4 MG/KG		
T-12	4/14/2004		ND	ND	0.54 MG/KG	ND	0.25 MG/KG	ND
T-13	4/14/2004		ND	ND	0.2 MG/KG	0.6 MG/KG	0.12 MG/KG	ND
T-14	4/14/2004		ND	ND	ND	ND	ND	ND
T1	4/8/2004		ND	ND	ND	ND	ND	ND
T2	4/8/2004		ND	ND	ND	ND	ND	ND
T3	4/8/2004		ND	ND	ND	ND	ND	ND
T4	4/12/2004		ND	ND	0.18 MG/KG	0.47 MG/KG	92 UG/KG	55 UG/KG
T5	4/8/2004		ND	ND	2100 UG/KG	ND	ND	ND
T6	4/12/2004		ND	0.13 MG/KG	0.32 MG/KG	0.61 MG/KG	150 UG/KG	240 UG/KG
T7	4/8/2004		ND	ND	ND	ND	ND	ND
T8	4/12/2004		ND	ND	0.05 MG/KG	ND	170 UG/KG	160 UG/KG
T9	4/12/2004		ND	0.1 MG/KG	2 MG/KG	3.5 MG/KG	ND	ND
MOST RECENT GEO_WELL DATA - HIDE								
VIEW ESI SUBMITTALS								
FIELD PT NAME	DATE	DEPTH TO WATER (FT)	SHEEN	DEPTH TO FREE PRODUCT (FT)				
MW-1	12/23/2015	26.74	N					
MW-2	12/23/2015	25.12	N					
MW-3	12/23/2015	26.54	N					
MW-4	12/23/2015	25.93	N					
MW-5	8/17/2004		U					
MW-6	8/17/2004		U					
MW-7	12/23/2015		N					

ATTACHMENT 2

LTCP Checklist

CHEVRON #9-4800 (T0600102076) - [MAP THIS SITE](#) OPEN - ELIGIBLE FOR CLOSURE

1700 CASTRO STREET
OAKLAND, CA 94612
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)
[PUBLIC WEBPAGE](#)

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP (LEAD) - CASE # RO0000342
CASEWORKER: [MARK DETTERMAN](#) - SUPERVISOR: [DILAN ROE](#)
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE # 01-2260
CASEWORKER: [Regional Water Board](#) - SUPERVISOR: NONE SPECIFIED

CUF Claim #: 15502 CUF Priority Assigned: D CUF Amount Paid: \$0

THIS PROJECT WAS LAST MODIFIED BY [MARK DETTERMAN](#) ON 9/1/2016 2:38:35 PM - [HISTORY](#)

THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CLOSURE POLICY [CLOSURE POLICY HISTORY](#)

THIS VERSION IS FINAL AS OF 5/31/2016

General Criteria - *The site satisfies the policy general criteria* - [CLEAR SECTION ANSWERS](#)

a. Is the unauthorized release located within the service area of a public water system?
Name of Water System: YES NO

b. The unauthorized release consists only of petroleum ([info](#)). YES NO

c. The unauthorized ("primary") release from the UST system has been stopped. YES NO

d. Free product has been removed to the maximum extent practicable ([info](#)). FP Not Encountered YES NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)). YES NO

f. Secondary source has been removed to the extent practicable ([info](#)). YES NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. Not Required YES NO

h. Does a nuisance exist, as defined by [Water Code section 13050](#). YES NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - [CLEAR SECTION ANSWERS](#)

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [info](#)) YES NO

Does the site meet any of the Groundwater specific criteria scenarios? YES NO

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site 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 water quality objectives will be achieved within a reasonable time frame. YES NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c.* - [CLEAR SECTION ANSWERS](#)

EXEMPTION - Active Commercial Petroleum Fueling Facility YES NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - [CLEAR SECTION ANSWERS](#)

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination YES NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? YES NO

3(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. YES NO

Additional Information

This case should be kept OPEN in spite of meeting policy criteria. YES NO

Has this LTCP Checklist been updated for FY 16/17? YES NO

[SPELL CHECK](#)

ATTACHMENT 3

Attachment 3 – Groundwater Evaluation and Data

LTCP GROUNDWATER SPECIFIC CRITERIA - PETROLEUM						
Closure Scenario						
___ Site has not affected groundwater; ___ Scenario 1; ___ Scenario 2; ___ Scenario 3; ___ Scenario 4; <u>X</u> Scenario 5; ___ This case should be closed in spite of not meeting the groundwater specific media criteria						
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria						
Site Specific Data		Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Plume Length	Estimate: 1,046 feet	<100 feet	<250 feet	<1,000 feet	<1,000 feet	The site does not meet scenarios 1 through 4; however, a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.
Free Product	No free product	No free product	No free product	Removed to maximum extent practicable	No free product	
Plume Stable or Decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 years	Stable or decreasing	
Distance to Nearest Water Supply Well (from plume boundary)	> 1,000 feet (DWR / ACPWA) >2,000 (GAMA)	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Distance to Nearest Surface Water Body (from plume boundary)	Downgradient: >10,000 feet Cross Gradient: 4,750 feet Upgradient: 3,460 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Benzene Concentrations (µg/l)	Historic Max: 2,200 Current Max: <0.5	No criteria	<3,000	<1,000	<1,000	
MTBE Concentrations (µg/l)	Historic Max: 24,000 Current Max: 910	No criteria	<1,000	<1,000	<1,000	
Property Owner Willing to Accept a Land Use Restriction	Not applicable	Not applicable	Not applicable	Yes	Not applicable	

Notes: DWR = Department of Water Resources
 ACPWA = Alameda County Public Works Agency
 GAMA = Groundwater Ambient Monitoring Assessment (GeoTracker)

Attachment 3 – Groundwater Evaluation and Data

Analysis	
Plume Length	Consistent with the State Water Board's <i>Technical Justification for Groundwater Media-Specific Criteria</i> , dated April 24, 2012, the estimated maximum length of the contaminant plume is assumed to be less than 1,046 feet in length. No registered water supply wells were located within 1,320 feet of the site.
Free Product	Not observed at site.
Plume Stability	Based on source removal, the plume is stable in extent. (The contaminant mass has expanded to its maximum extent defined as the distance from the release where attenuation exceeds migration.)
Water Supply Wells	An Alameda County Public Works Agency (ACPWA) and the Department of Water Resources (DWR) well survey indicate no public water supply wells or irrigation wells are within 1,320 feet of the site. The well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) website indicates there are no public water supply wells, irrigation wells, California Department of Public Health wells, Department of Pesticide Regulation wells located within a 2,000 foot radius of the site. A door-to-door well survey located one unregistered potential well to the northwest of the site at an approximate distance of 1,070 from the release. After multiple attempts to identify one potential well owner, the address was identified, and the owner verbally indicated a well was not present at the address. Additionally, the State Water Board has found (<i>Technical Justification for Groundwater Media-Specific Criteria</i> , April 24, 2012) that the maximum plume length for methyl tert butyl ether (MTBE) is 1,046 feet. In general, groundwater flows to the west. Because the potential well is at a distance greater than the SWB's maximum MTBE plume length and is located cross-gradient to the predominant direction of groundwater flow, the potential well does not appear to be at risk as a sensitive receptor from MTBE contamination released at the site.
Surface Water Bodies	San Francisco Bay is downgradient to the west at a distance greater than 10,000 feet. The Inner Oakland Harbor and Estuary is approximately 4,750 feet crossgradient to the south. Lake Merritt is approximately 3,460 feet upgradient to the east.

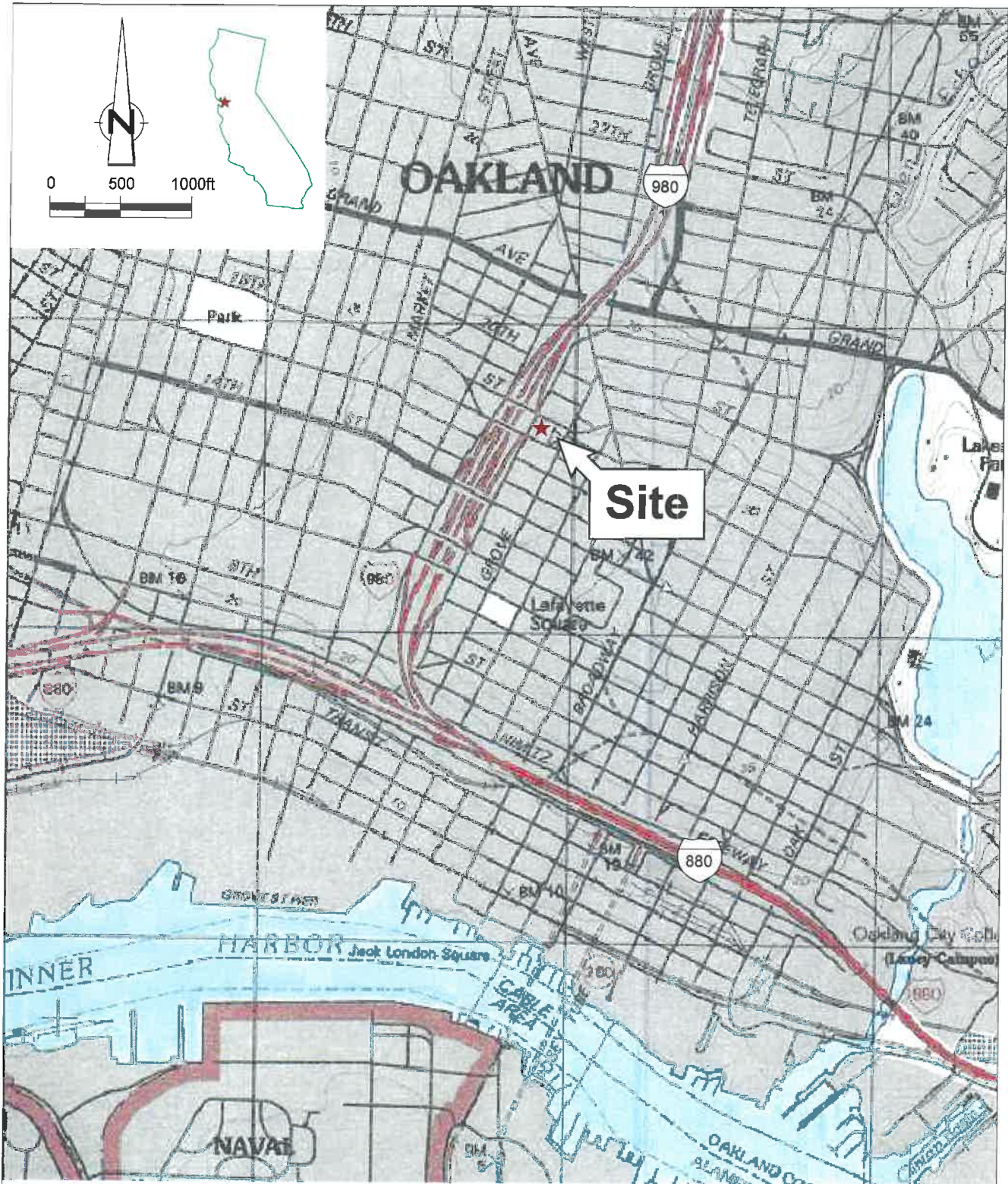
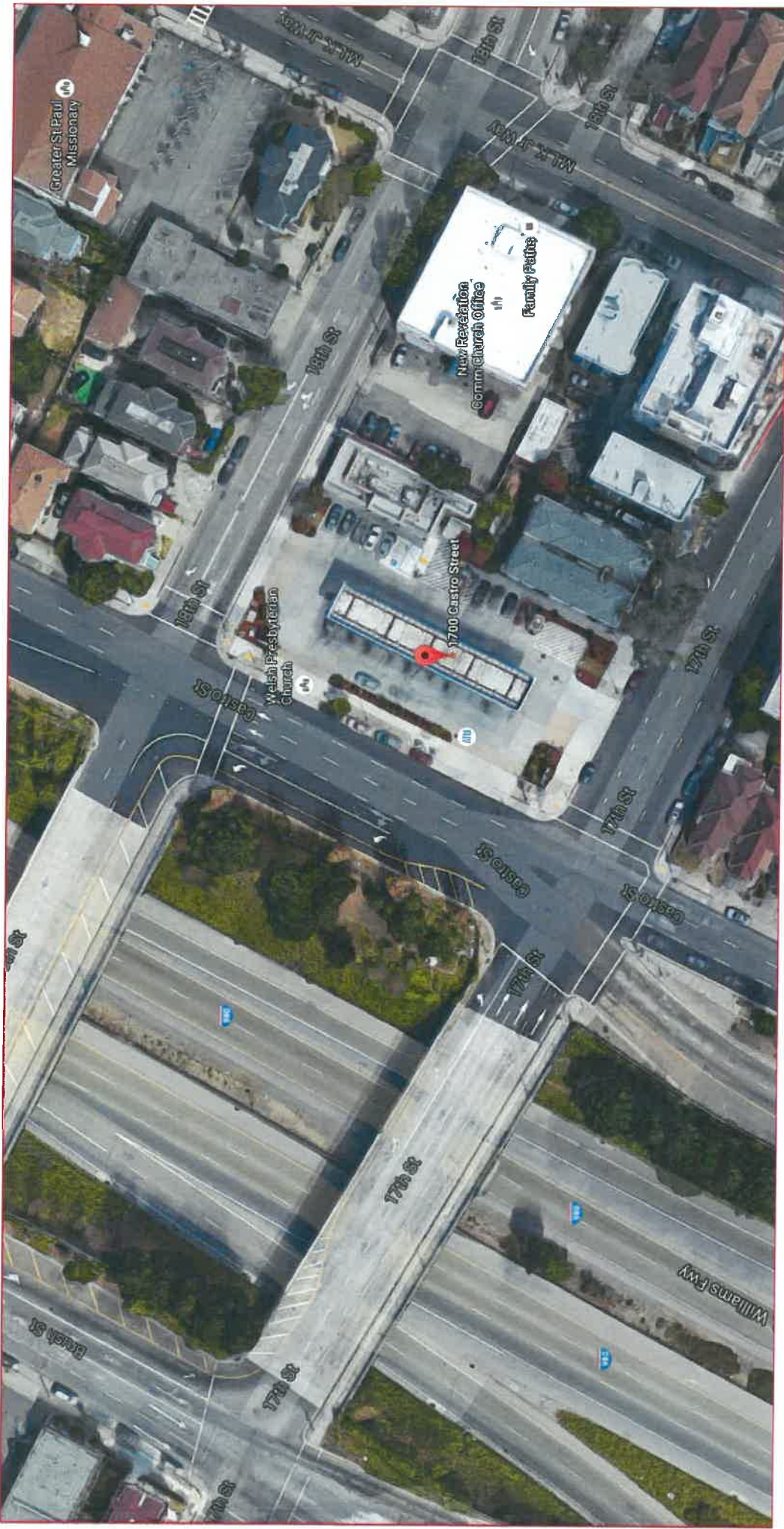


Figure 1
 VICINITY MAP
 CHEVRON SERVICE STATION 94800
 1700 CASTRO STREET
 Oakland, California





Greater St Paul Missionary

New Revelation Comm Church Offices
Family Patis

Welsh Presbyterian Church

1700 Castro Street

Williams Fwy

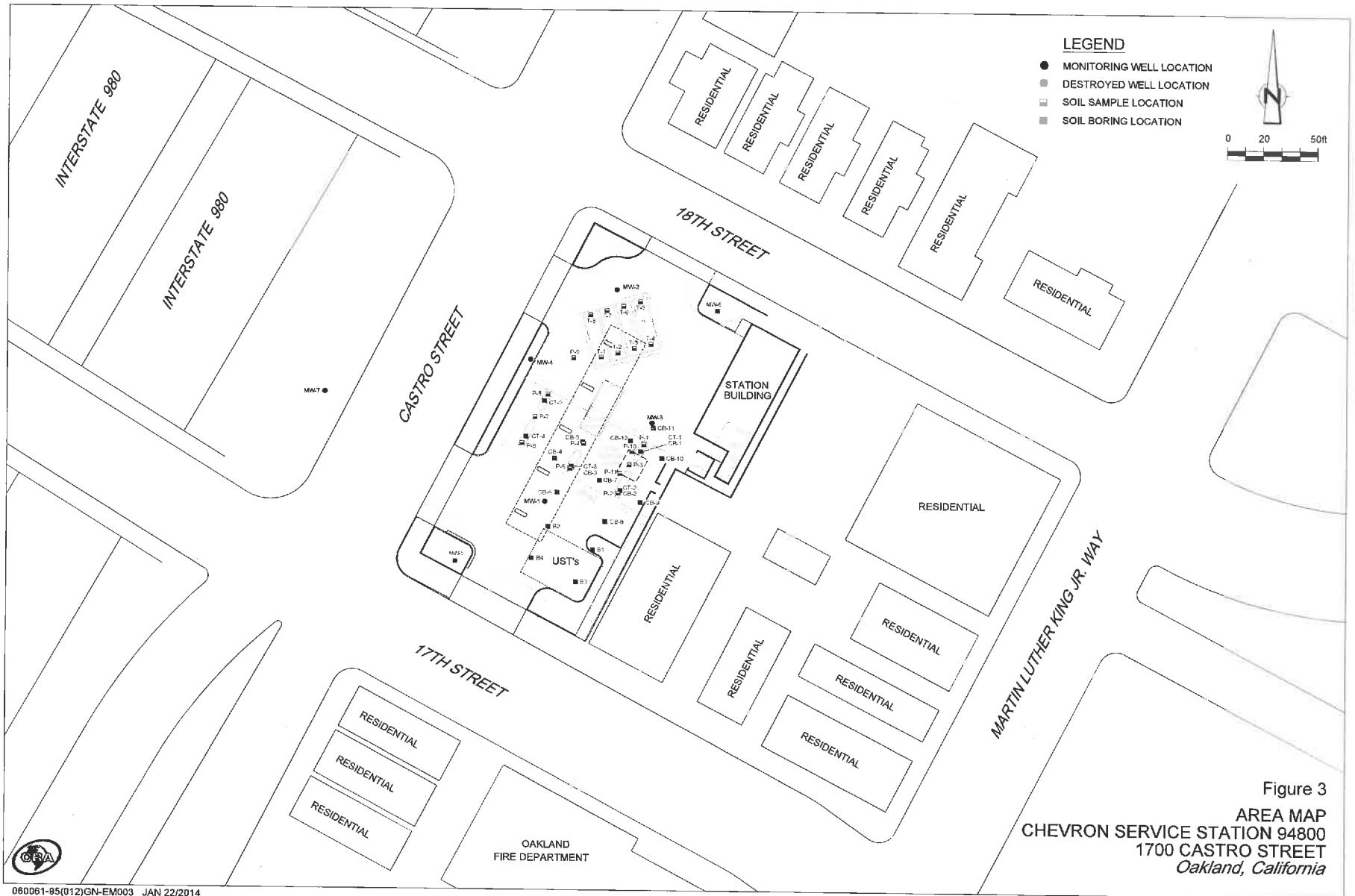
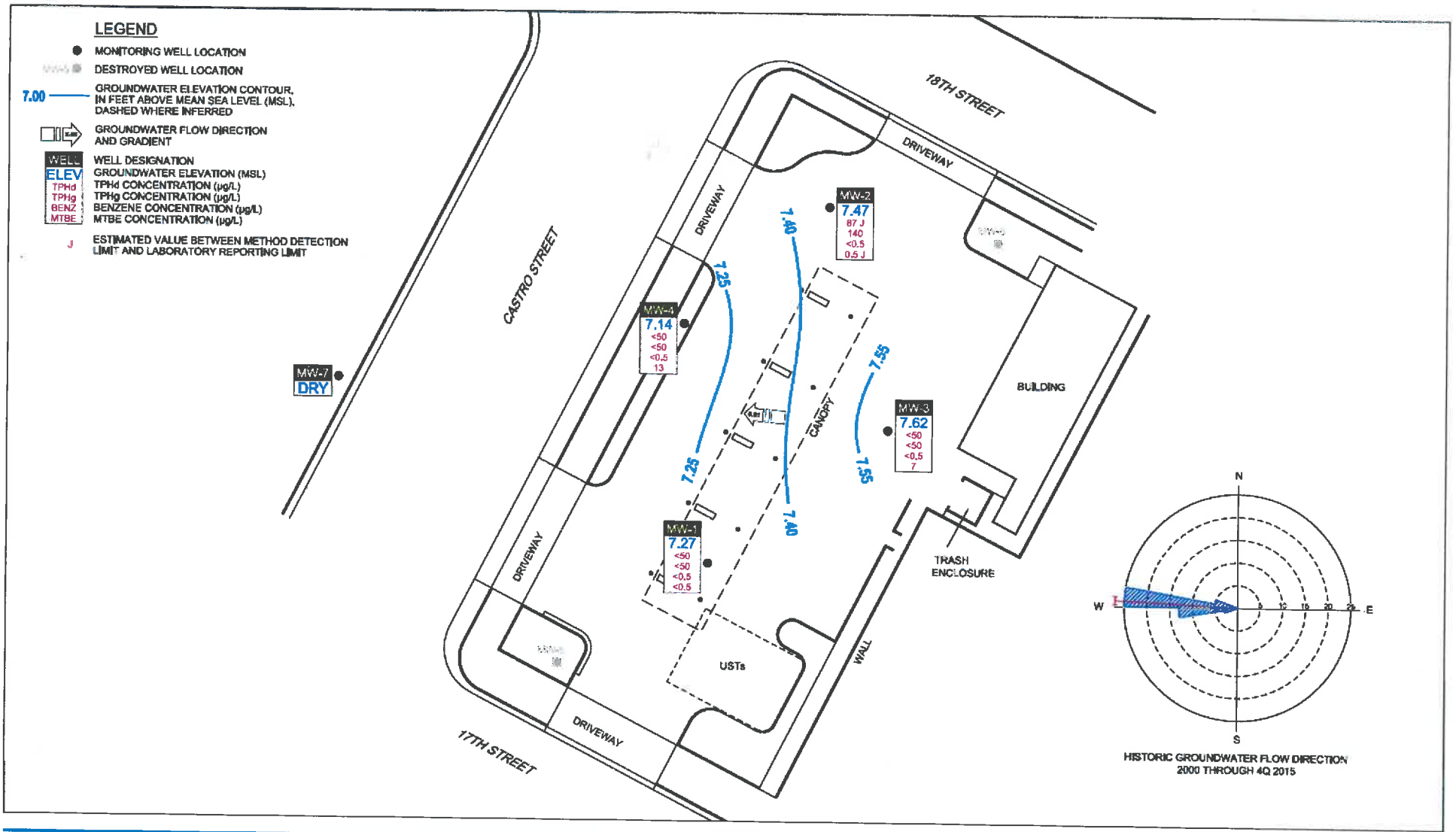


Figure 3
 AREA MAP
 CHEVRON SERVICE STATION 94800
 1700 CASTRO STREET
 Oakland, California



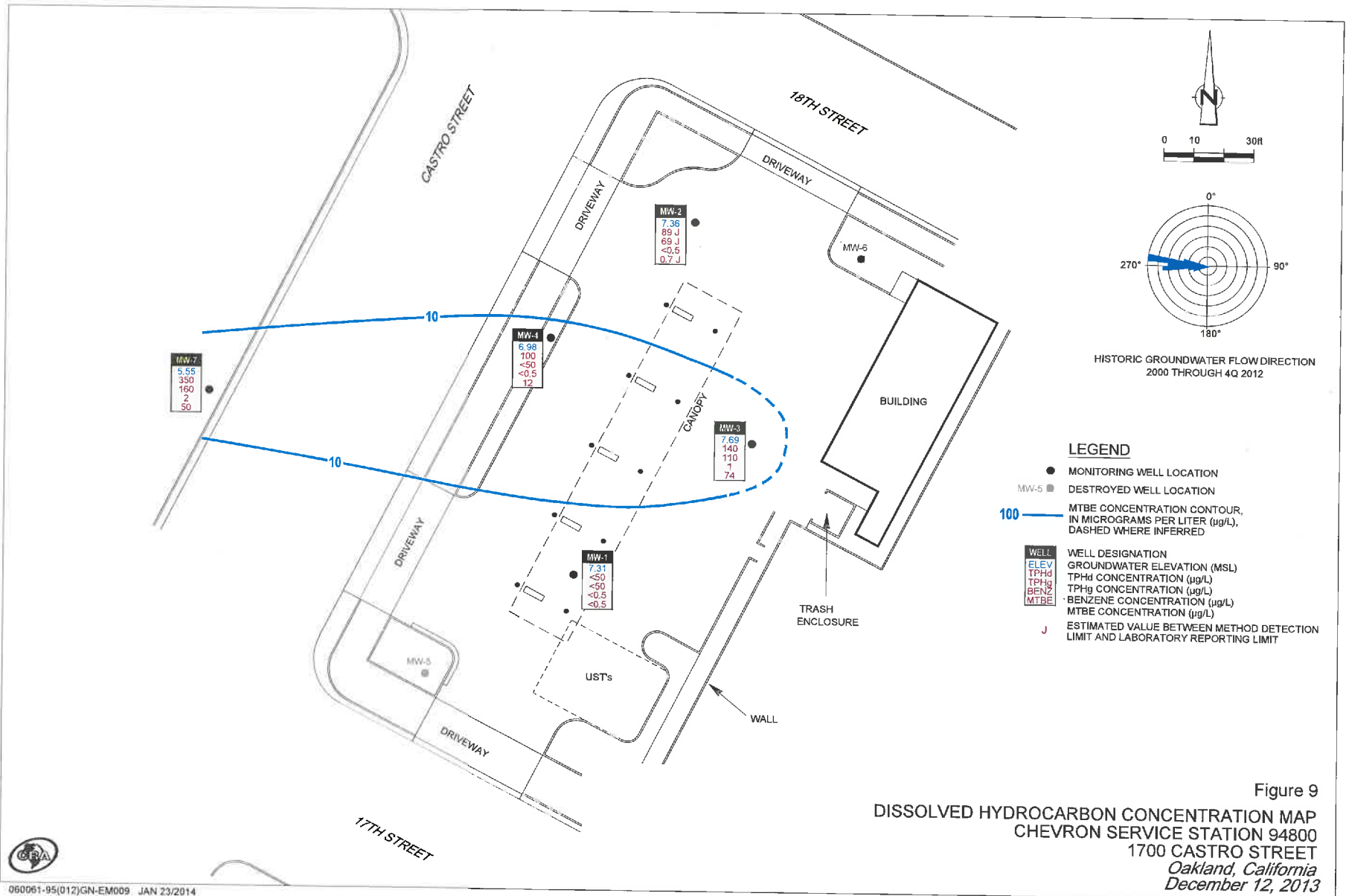


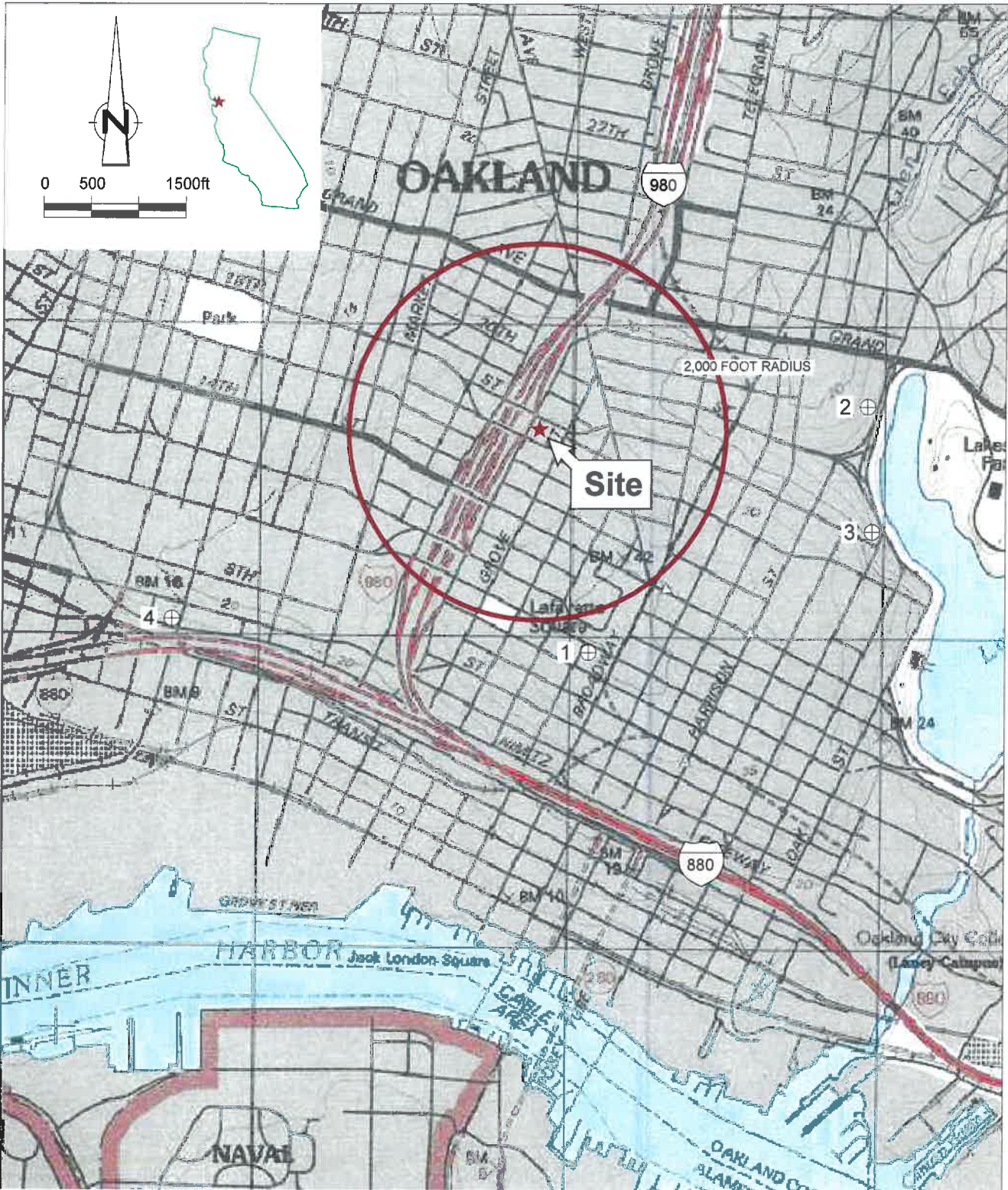
CHEVRON SERVICE STATION 94800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND
 HYDROCARBON CONCENTRATION MAP - DECEMBER 23, 2015

060061-95
 Feb 8, 2016

FIGURE 2





LEGEND

⊕ WATER SUPPLY WELL



Figure 10

**WATER SUPPLY WELL LOCATIONS
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET
Oakland, California**

GEOTRACKER GAMA

SEARCH FOR WELLS

Wells With Results

Any Chemical

All Years Go

0 WELLS FOUND (0% ABOVE COMPARISON CONCENTRATION)

The list of comparison concentrations can be found [here](#).

Well Quick Search

DATASETS

ENVIRONMENTAL MONITORING:

- Monitoring Wells - Water Board Regulated
- Inigated Lands Regulatory Program

SUPPLY WELLS:

- Public Supply Wells -
- GAMA - SWRCB Domestic
- GAMA - USGS
- GAMA - LLNL
- DPR
- DWR
- USGS - NWS

[DOWNLOAD MAP DATA](#)

[DOWNLOAD DATA BY COUNTY](#)

[ADDITIONAL DATASET INFORMATION](#)

GIS LAYERS

DTW / GW ELEVATION

LOCAL INFORMATION

[MEASURE A DISTANCE](#) [VIEW GEOTRACKER MAP](#)

[CONTACT US](#)

1700 CASTRO STREET Oakland, CA 94612

Map Address

1700 Castro St, Oakland, CA 94612, USA

LIMIT TO TEST WITHIN 2000 FEET OF THIS LOCATION

[RETURN TO LIST](#) [VIEW THIS LOCATION](#) [PRINT THIS LOCATION](#)

LOCATIONS FOUND

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TGA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	06/04/1997	30.75	25.82	4.39	71 ¹	-	890	100	110	29	150	<10	-	-	-	-	-	-	-	-
MW-1	09/16/1997	30.75	25.90	4.85	75 ¹	-	1,600	210	210	69	250	<10	-	-	-	-	-	-	-	-
MW-1	12/17/1997	30.75	25.67	4.88	65 ¹	-	940	120	100	41	160	<25	-	-	-	-	-	-	-	-
MW-1	03/18/1998	30.75	24.85	5.90	77 ¹	-	530	91	39	22	65	6.8	-	-	-	-	-	-	-	-
MW-1	06/28/1998	30.75	24.83	5.92	140 ¹	-	1,100	220	140	37	120	-	14	-	-	-	-	-	-	-
MW-1	09/07/1998	30.75	25.19	5.56	280 ¹	-	1,700	530	88	94	240	49	-	-	-	-	-	-	-	-
MW-1	12/09/1998	30.75	25.65	5.10	240 ¹	-	1,700	240	130	100	270	32	-	-	-	-	-	-	-	-
MW-1	03/11/1999	30.75	25.45	5.30	96 ¹	-	353	53.9	28.6	20.5	56.1	14.1	-	-	-	-	-	-	-	-
MW-1	06/17/1999	30.75	25.36	5.39	217 ¹	-	810	270	150	95	340	15	-	-	-	-	-	-	-	-
MW-1	09/29/1999	30.75	25.62	5.13	153 ¹	-	659	76	49.7	35.1	118	12.6	-	-	-	-	-	-	-	-
MW-1	12/14/1999	30.75	25.68	5.07	188 ^{1,2}	-	2,760	287	199	139	502	<12.5	-	-	-	-	-	-	-	-
MW-1	03/09/2000 ³	30.75	25.21	5.54	166 ¹	-	1,580	236	94.9	72.2	247	22.3	-	-	-	-	-	-	-	-
MW-1	06/10/2000	30.75	25.02	5.73	-	-	1,460	242	47.8	63.8	151	67.3	-	-	-	-	-	-	-	-
MW-1	09/30/2000	30.75	25.45	5.30	240 ⁷	-	650 ⁸	130	49	69	190	21	-	-	-	-	-	-	-	-
MW-1	12/22/2000	30.75	25.70	5.05	260 ⁹	-	640 ⁸	110	33	58	160	68	-	-	-	-	-	-	-	-
MW-1	03/01/2001	30.75	25.50	5.25	211 ⁷	-	1,500 ⁸	210	67.9	109	320	67.3	-	-	-	-	-	-	-	-
MW-1	05/04/2001	30.75	25.34	5.41	130 ⁷	-	991	127	32.6	73.0	137	65.4	-	-	-	-	-	-	-	-
MW-1	09/05/2001	30.75	25.59	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/21/2001	30.75	25.58	5.17	210	-	2,000	220	16	110	400	34	-	-	-	-	-	-	-	-
MW-1	03/15/2002	30.75	25.15	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/15/2002	30.75	25.26	5.49	140	-	350	54	0.61	12	40	130	-	-	-	-	-	-	-	-
MW-1	09/08/2002	30.75	25.49	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/08/2002	30.75	25.63	5.12	2,900	-	900	71	2.1	39	150	34	-	-	-	-	-	-	-	-
MW-1	03/03/2003	30.75	25.29	5.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/17/2003 ¹⁴	30.75	25.11	5.64	180	-	290	34	0.6	23	90	-	-	92	-	-	-	-	-	-
MW-1	09/16/2003	30.75	25.36	5.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	12/31/2003 ¹⁴	30.75	25.55	5.20	150	-	1,500	97	6	70	230	-	-	88	<50	-	-	-	-	-
MW-1	03/26/2004	30.75	25.01	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/17/2004 ¹⁴	30.75	26.16	4.59	860	-	500	44	5	12	54	-	-	76	<50	-	-	-	-	-
MW-1	11/16/2004 ¹⁴	34.01	28.16	7.85	<26	-	570	33	<0.5	14	53	-	-	48	<50	-	-	-	-	-
MW-1	02/18/2005	34.01	25.76	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/06/2005 ¹⁴	34.01	25.39	8.62	110	-	170	13	<0.5	4	18	-	-	220	<50	-	-	-	-	-
MW-1	08/05/2005	34.01	25.70	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/07/2005 ¹⁴	34.01	26.02	7.99	260 ²⁰	-	180	7	<0.5	3	24	-	-	260	<50	-	-	-	-	-
MW-1	02/09/2006	34.01	25.68	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/08/2006 ¹⁴	34.01	24.98	9.03	730	-	270	23	<0.7	1	18	590	-	-	<50	-	-	-	-	-
MW-1	08/09/2006	34.01	25.52	8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2006 ¹⁴	34.01	25.90	8.11	380	-	<50	0.6	<0.5	<0.5	2	140	-	-	<50	-	-	-	-	-
MW-1	02/06/2007	34.01	25.98	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/01/2007 ¹⁴	34.01	25.79	8.23	750	-	58	0.8	<0.5	<0.5	1	-	-	280	<50	-	-	-	-	-
MW-1	07/31/2007	34.01	26.00	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2007 ¹⁴	34.01	26.16	7.85	330	-	<50	<0.5	<0.5	<0.5	0.9	-	-	270	<50	-	-	-	-	-
MW-1	02/04/2008	34.01	25.97	8.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/01/2008 ¹⁴	34.01	25.95	8.06	88	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	470	<50	-	-	-	-	-
MW-1	08/01/2008	34.01	26.04	7.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/13/2008 ¹⁴	34.01	26.13	7.88	<50	-	170	1	<0.5	<0.5	2	-	-	180	<50	-	-	-	-	-
MW-1	02/23/2009	34.01	25.94	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/20/2009	34.01	25.63	8.38	88 J	-	<50	0.6 J	<0.5	<0.5	2	-	-	180	<50	-	-	-	-	-
MW-1	08/25/2009	34.01	25.80	8.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/18/2009	34.01	25.83	8.08	150	-	<50	<0.5	<0.5	0.6 J	<0.5	-	-	310	<50	-	-	-	-	-
MW-1	05/18/2010	34.01	25.54	8.47	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	9	-	-	-	-
MW-1	12/01/2010	34.01	25.92	8.09	52 J	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	-	-	-	-	-

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					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MtBE by VOC	MtBE by SW6240	MtBE by SW6260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	05/04/2011	34.01	25.26	8.75	-	75 J	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	180	<50	-	-	-	-
MW-1	12/09/2011	34.01	25.79	8.22	87 J	-	81 J	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	89	<50	-	-	-	-
MW-1	05/31/2012	34.01	25.49	8.52	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	23	<50	-	-	-	-
MW-1	11/14/2012	34.01	26.00	8.01	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	-	-	-
MW-1	06/03/2013	34.01	25.94	8.07	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	1	<50	-	-	-	-
MW-1	12/12/2013	34.01	26.70	7.31	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-1	05/30/2014	34.01	26.32	7.69	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-1	12/08/2014	34.01	26.44	7.57	-	130	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-1	06/19/2015	34.01	26.52	7.49	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-1	12/23/2015	34.01	26.74	7.27	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-2	06/04/1997	30.00	24.67	5.13	4,000 ¹	-	13,000	790	30	420	1,700	4,000	-	-	-	-	-	-	-	-
MW-2	09/16/1997	30.00	24.94	5.06	2,200 ¹	-	4,000	360	8.7	210	400	1,500	-	-	-	-	-	-	-	-
MW-2	12/17/1997	30.00	24.82	5.18	2,100 ¹	-	4,100	380	<10	200	400	2,100	-	-	-	-	-	-	-	-
MW-2	03/18/1998	30.00	23.57	6.43	3,700 ¹	-	8,400	1,800	<50	350	630	13,000	-	-	-	-	-	-	-	-
MW-2	06/28/1998 ⁴	30.00	23.79	6.21	4,400 ¹	-	9,300	740	340	710	2,300	-	3,600	-	-	-	-	-	-	-
MW-2	09/07/1998	30.00	24.22	5.78	3,100 ¹	-	9,900	1,000	150	640	1,800	500 / 4,10	-	-	-	-	-	-	-	-
MW-2	12/09/1998	30.00	24.60	5.31	1,900 ¹	-	8,500	860	74	610	960	600 / 2,60	-	-	-	-	-	-	-	-
MW-2	03/11/1999	30.00	24.21	5.79	2,700 ¹	-	12,500	1,520	42.2	645	2,250	050 / 3,40	-	-	-	-	-	-	-	-
MW-2	06/17/1999	30.00	24.31	5.69	7,150 ¹	-	27,000	2,200	260	1,500	5,900	4,700	-	-	-	-	-	-	-	-
MW-2	09/29/1999	30.00	24.65	5.45	3,030 ¹	-	6,910	582	11.1	491	1,170	1,970	-	-	-	-	-	-	-	-
MW-2	12/14/1999	30.00	24.61	5.39	615 ²	-	4,230	282	12.3	284	680	631	-	-	-	-	-	-	-	-
MW-2	03/09/2000 ³	30.00	23.92	6.08	3,300 ¹	-	15,300	1,110	39.4	1,040	3,030	2,470	-	-	-	-	-	-	-	-
MW-2	06/10/2000	30.00	23.67	6.13	-	-	7,360	590	40.7	627	1,280	1,260	-	-	-	-	-	-	-	-
MW-2	09/30/2000	30.00	24.33	5.67	1,800 ⁷	-	3,600 ⁸	280	<10	420	430	290	-	-	-	-	-	-	-	-
MW-2	12/22/2000	30.00	24.61	5.39	870 ²	-	1,500 ⁶	100	<1.3	160	59	380	-	-	-	-	-	-	-	-

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	FOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	M/TBE by VOC	M/TBE by SW8240	M/TBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-ansi	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	03/01/2001	30.00	24.21	5.79	1,320 ⁷	-	2,340 ⁸	171	<5.00	238	157	884	-	-	-	-	-	-	-	-
MW-2	05/04/2001	30.00	24.17	5.83	3,100 ⁷	-	11,900	199	33.9	1,420	290	3,890	-	-	-	-	-	-	-	-
MW-2	09/05/2001	30.00	24.55	5.45	2,200	-	3,300	176	1.7	310	110	1,100	-	-	-	-	-	-	-	-
MW-2	12/21/2001	30.00	24.40	5.60	980	-	1,100	56	0.72	120	14	450	-	-	-	-	-	-	-	-
MW-2	03/15/2002	30.00	23.95	6.05	2,200	-	5,000	250	9.1	470	430	1,800	-	-	-	-	-	-	-	-
MW-2	08/15/2002	30.00	24.16	5.84	3,700	-	5,200	240	5.2	540	210	2,200	-	-	-	-	-	-	-	-
MW-2	09/05/2002	30.00	24.41	5.59	2,200	-	2,100	84	1.4	250	30	1,000	-	-	-	-	-	-	-	-
MW-2	12/03/2002	30.00	24.56	5.44	730	-	780	21	<0.50	59	3.4	480	-	-	-	-	-	-	-	-
MW-2	03/03/2003	30.00	24.21	5.79	3,500	-	4,800	220	1.9	650	46	4,400	-	-	-	-	-	-	-	-
MW-2	06/17/2003 ¹⁴	30.00	23.93	6.07	4,100	-	4,700	140	4	370	84	-	-	2,700	-	-	-	-	-	-
MW-2	08/16/2003 ¹⁴	30.00	24.31	5.69	1,800 ¹⁵	-	1,300	36	<1	110	3	-	-	1,300	<130	-	-	-	-	-
MW-2	12/31/2003 ¹⁴	30.00	24.35	5.64	330	-	990	11	<0.5	23	3	-	-	440	<50	-	-	-	-	-
MW-2	03/23/2004	30.00	23.75	6.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	08/17/2004 ¹⁴	30.00	24.47	5.53	400	-	300	9	<0.5	18	1	-	-	340	<50	-	-	-	-	-
MW-2	11/16/2004 ¹⁴	32.59	24.45	8.14	4,300	-	10,000	91	7	830	1,300	-	-	1,100	<100	-	-	-	-	-
MW-2	02/16/2005	32.59	23.92	8.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/06/2005 ¹⁴	32.59	23.53	9.06	1,300	-	4,000	62	4	290	320	-	-	400	<50	-	-	-	-	-
MW-2	08/05/2005	32.59	23.96	8.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/07/2005 ¹⁴	32.59	24.32	8.27	300 ¹⁶	-	800	2	<0.5	<0.5	<0.5	-	-	66	<50	-	-	-	-	-
MW-2	02/03/2006	32.59	23.83	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/09/2006 ¹⁴	32.59	23.10	9.49	2,100	-	6,100	32	4	430	460	360	-	-	<50	-	-	-	-	-
MW-2	08/08/2006	32.59	23.80	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/08/2006 ¹⁴	32.59	24.27	8.32	770	-	120	12	<0.5	0.7	8	840	-	-	<50	-	-	-	-	-
MW-2	03/03/2007	32.59	24.29	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	06/01/2007 ¹⁴	32.59	24.05	8.54	180	-	850	<0.5	<0.5	16	36	-	-	100	<50	-	-	-	-	-
MW-2	07/31/2007	32.59	24.31	8.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	11/08/2007 ¹⁴	32.59	24.47	8.12	800	-	180	<0.5	<0.5	<0.5	<0.5	-	-	37	<50	-	-	-	-	-
MW-2	02/04/2008	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/01/2008 ¹⁴	32.59	24.25	8.34	500	-	430	<0.5	<0.5	<0.5	5	-	-	120	<50	-	-	-	-	-
MW-2	08/01/2008	32.59	24.33	8.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/13/2008 ¹⁴	32.59	24.42	8.17	2,600	-	2,500	3	1	190	83	-	-	240	<50	-	-	-	-	-
MW-2	02/23/2009	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/20/2009	32.59	23.65	8.94	2,800 J	-	4,000	4	1	42	55	-	-	180	<50	-	-	-	-	-
MW-2	08/25/2009	32.59	24.00	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/18/2009	32.59	24.51	8.08	2,800	-	5,400	4	1 J	69	34	-	-	79	<100	-	-	-	-	-
MW-2	05/18/2010	32.59	23.65	8.94	1,100	-	580	<0.5	<0.5	<0.5	<0.5	-	-	22	<50	6	-	-	-	-
MW-2	12/01/2010	32.59	24.20	8.39	930	-	230	<0.5	<0.5	<0.5	<0.5	-	-	20	<50	-	-	-	-	-
MW-2	05/04/2011	32.59	23.50	9.09	-	1,300	830	<0.5	<0.5	51	10	-	-	16	<50	-	-	-	-	-
MW-2	12/09/2011	32.59	24.12	8.47	180	-	140	<0.5	<0.5	<0.5	<0.5	-	-	8	<50	-	-	-	-	-
MW-2	05/31/2012	32.59	23.94	8.65	78 J	-	75 J	<0.5	<0.5	<0.5	<0.5	-	-	4	<50	-	-	-	-	-
MW-2	11/14/2012	32.59	24.12	8.47	-	78 J	69 J	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	-	-	-	-
MW-2	08/03/2013	32.59	24.31	8.28	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	2	<50	-	-	-	-	-
MW-2	12/12/2013	32.59	25.23	7.36	89 J	-	88 J	<0.5	<0.5	<0.5	<0.5	-	-	0.7 J	<50	-	-	-	-	-
MW-2	05/30/2014	32.59	25.10	7.49	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	0.7 J	-	-	-	-	-	-
MW-2	12/08/2014	32.59	24.92	7.67	-	<50	59 J	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-	-
MW-2	08/19/2015	32.59	24.91	7.68	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	0.9 J	<50	-	-	-	-	-
MW-2	12/23/2015	32.59	25.12	7.47	-	87 J	140	<0.5	<0.5	<0.5	<0.5	-	-	0.5 J	<50	-	-	-	-	-
MW-3	08/04/1997	31.32	26.05	5.27	<50	-	180	26	20	1.5	16	8.2	-	-	-	-	-	-	-	-
MW-3	09/18/1997	31.32	26.15	5.17	<50	-	270	58	53	6.1	30	21	-	-	-	-	-	-	-	-
MW-3	12/17/1997	31.32	26.10	5.22	<50	-	290	50	54	8.1	37	21	-	-	-	-	-	-	-	-
MW-3	03/19/1998	31.32	24.90	6.42	<50	-	380	140	33	4.6	30	94	-	-	-	-	-	-	-	-

Table 1
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Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-crest	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	08/28/1998	31.32	24.03	6.39	<50	-	290	90	11	1.6	13	-	150	-	-	-	-	-	-	-
MW-3	09/07/1998	31.32	25.35	5.97	<50	-	170	46	20	4.3	19	120	-	-	-	-	-	-	-	
MW-3	12/08/1998	31.32	25.91	5.41	55 ¹	-	660	120	99	22	72	150	-	-	-	-	-	-	-	
MW-3	03/11/1999	31.32	25.47	5.85	<50	-	653	138	69.5	13.7	63.8	144	-	-	-	-	-	-	-	
MW-3	06/17/1999	31.32	25.42	5.90	103 ¹	-	530	190	110	24	86	210	-	-	-	-	-	-	-	
MW-3	09/29/1999	31.32	25.71	5.61	232 ¹	-	433	97.8	61.4	16.9	58.6	156	-	-	-	-	-	-	-	
MW-3	12/14/1999	31.32	25.77	5.55	<50 ²	-	8,650	1,040	795	212	800	995	-	-	-	-	-	-	-	
MW-3	03/09/2000 ³	31.32	25.18	6.14	74.6 ¹	-	1,170	304	103	25.2	114	539	-	-	-	-	-	-	-	
MW-3	06/10/2000	31.32	25.03	6.29	-	-	359	63.8	27.8	10.5	35.4	393	-	-	-	-	-	-	-	
MW-3	09/30/2000	31.32	25.53	5.79	100 ³	-	220 ³	42	33	12	38	67	-	-	-	-	-	-	-	
MW-3	12/22/2000	31.32	25.80	5.52	110 ⁹	-	370 ⁹	96	48	18	58	180	-	-	-	-	-	-	-	
MW-3	03/01/2001	31.32	25.57	5.75	144 ⁷	-	912 ⁶	218	89.0	36.0	110	310	-	-	-	-	-	-	-	
MW-3	05/04/2001	31.32	25.33	5.98	<50	-	1,360	146	79.6	38.2	101	1,070	-	-	-	-	-	-	-	
MW-3	08/05/2001	31.32	25.71	5.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	12/21/2001	31.32	25.65	5.67	180	-	850	160	11	32	84	300	-	-	-	-	-	-	-	
MW-3	03/15/2002	31.32	25.17	6.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	06/15/2002	31.32	25.31	6.01	<50	-	550	110	3.0	23	59	590	-	-	-	-	-	-	-	
MW-3	09/08/2002	31.32	25.58	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	12/08/2002	31.32	25.76	5.56	160	-	350	60	1.3	11	32	530	-	-	-	-	-	-	-	
MW-3	03/03/2003	31.32	25.40	5.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	06/17/2003 ¹⁴	31.32	25.13	6.19	130	-	560	90	2	19	57	-	590	-	-	-	-	-	-	
MW-3	09/16/2003	31.32	25.47	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	12/31/2003 ¹⁴	31.32	25.65	5.67	120	-	840	140	24	25	87	-	670	68	-	-	-	-	-	
MW-3	03/20/2004	31.32	24.99	6.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-3	08/17/2004 ¹⁴	31.32	25.86	5.46	110	-	630	84	18	11	35	-	410	<50	-	-	-	-	-	
MW-3	11/16/2004 ¹⁴	34.16	25.90	8.26	92	-	740	100	4	21	45	-	460	<50	-	-	-	-	-	

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1700 Castro Street
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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS							
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	M/TBE by VOC	M/TBE by SW8240	M/TBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME		
	Units	ft	ft	ft-arsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-3	02/18/2005	34.16	25.37	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/06/2005 ¹⁴	34.16	24.98	9.18	83	-	290	43	<1	6	11	-	-	-	740	<100	-	-	-	-	-
MW-3	08/05/2005	34.16	25.35	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/07/2005 ¹⁴	34.16	25.69	8.47	68	-	220	29	0.7	3	26	-	-	-	440	△50	-	-	-	-	-
MW-3	02/06/2006	34.16	25.29	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/06/2006 ¹⁴	34.16	24.49	9.67	310	-	580	70	<1	3	24	3,300	-	-	-	<100	-	-	-	-	-
MW-3	08/08/2006	34.16	25.16	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2006 ¹⁴	34.16	25.99	8.57	210	-	510	<0.5	<0.5	<0.5	<0.5	73	-	-	-	△50	-	-	-	-	-
MW-3	02/06/2007	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/01/2007 ¹⁴	34.16	25.46	8.70	84	-	250	36	<0.5	0.8	18	-	-	-	1,200	△50	-	-	-	-	-
MW-3	07/31/2007	34.16	25.70	8.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2007 ¹⁴	34.16	25.87	8.29	260	-	270	32	0.9	3	29	-	-	-	440	△50	-	-	-	-	-
MW-3	02/04/2008	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/01/2008 ¹⁴	34.16	25.66	8.50	82	-	240	30	<0.5	<0.5	20	-	-	-	680	△50	-	-	-	-	-
MW-3	08/01/2008	34.16	25.76	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/13/2008 ¹⁴	34.16	25.80	8.36	<50	-	720	22	<0.5	<0.5	7	-	-	-	790	△50	-	-	-	-	-
MW-3	02/23/2009	34.16	25.72	8.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/20/2009	34.16	25.30	8.88	210	-	460	42	<0.5	1	20	-	-	-	450	△50	-	-	-	-	-
MW-3	08/25/2009	34.16	25.58	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/18/2009	34.16	25.71	8.45	240	-	260	25	<0.5	<0.5	9	-	-	-	170	△50	-	-	-	-	-
MW-3	05/18/2010	34.16	25.11	9.06	150	-	63 J	11	<0.5	<0.5	1	-	-	-	110	△50	470	-	-	-	-
MW-3	12/01/2010	34.16	25.69	8.47	110	-	78 J	6	<0.5	<0.5	3	-	-	-	19	△50	-	-	-	-	-
MW-3	05/04/2011	34.16	24.90	9.26	-	350	370	30	<0.5	<0.5	8	-	-	-	200	△50	-	-	-	-	-
MW-3	12/09/2011	34.16	25.98	8.60	64 J	-	210	10	<0.5	<0.5	9	-	-	-	230	△50	-	-	-	-	-
MW-3	09/31/2012	34.16	25.13	9.03	<50	-	<50	1	<0.5	<0.5	1	-	-	-	18	△50	-	-	-	-	-
MW-3	11/14/2012	34.16	25.36	8.80	-	<50	56 J	2	<0.5	<0.5	4	-	-	-	150	△50	-	-	-	-	-

Table 1

**Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MtBE by VOC	MtBE by SW8240	MtBE by SW8260	ETHANOL	ITBA	DIPE	ETBE	ETAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	06/03/2013	34.16	25.72	8.44	-	110	73 J	2	<0.5	<0.5	3	-	-	42	<50	-	-	-	-	-
MW-3	12/12/2013	34.16	26.47	7.69	140	-	110	1	<0.5	<0.5	2	-	-	74	<50	-	-	-	-	-
MW-3	09/30/2014	34.16	26.00	8.16	-	<50	190	1	<0.5	<0.5	2	-	-	86	-	-	-	-	-	-
MW-3	12/08/2014	34.16	26.40	7.76	-	<50	<50	<0.5	<0.5	<0.5	0.8 J	-	-	11	<50	-	-	-	-	-
MW-3	06/19/2015	34.16	26.26	7.90	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	9	<50	-	-	-	-	-
MW-3	12/23/2015	34.16	26.54	7.62	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	7	<50	-	-	-	-	-
MW-4	04/08/1999	30.13	-	-	-	-	130	3.1	<0.5	<0.5	7.7	700 / 5,400	-	-	<25,000	<5,000	<100	<100	<100	
MW-4	06/17/1999	30.13	24.94	5.19	3,780 ¹	-	500	58	<5.0	<5.0	160	6,200	-	-	-	-	-	-	-	
MW-4	09/29/1999	30.13	25.17	4.96	1,130 ¹	-	602	10.7	<2.5	5.51	236	7,840	-	-	-	-	-	-	-	
MW-4	12/14/1999	30.13	25.22	4.91	571 ^{1,2}	-	625	<10	3.85	<10	94.6	4,470	-	-	-	-	-	-	-	
MW-4	03/09/2000 ³	30.13	24.68	5.45	600 ¹	-	402	3.76	1.18	<0.5	71.4	3,140	-	-	-	-	-	-	-	
MW-4	06/10/2000	30.13	24.00	5.53	-	-	<1,000	13.2	<10.0	<10.0	97.8	3,080	-	-	-	-	-	-	-	
MW-4	09/30/2000	30.13	25.04	5.09	1,400 ⁷	-	280 ⁶	21	0.67	6.3	80	3,300	-	-	-	-	-	-	-	
MW-4	12/22/2000	30.13	25.23	4.90	740 ⁹	-	240 ⁸	2.2	<0.50	1.3	25	2,200	-	-	-	-	-	-	-	
MW-4	03/01/2001	30.13	24.98	5.15	661 ⁷	-	193	2.31	<0.500	1.34	12.1	1,220	-	-	-	-	-	-	-	
MW-4	05/04/2001	30.13	24.68	5.25	1,100 ⁷	-	722	12.0	<5.00	17.1	89.4	2,390	-	-	-	-	-	-	-	
MW-4	09/05/2001	30.13	25.17	4.06	2,500	-	1,400	23	2.2	19	260	2,300	-	-	-	-	-	-	-	
MW-4	12/21/2001	30.13	25.07	5.06	1,100	-	310	2.9	<0.50	2.6	32	860	-	-	-	-	-	-	-	
MW-4	03/15/2002	30.13	24.69	5.44	3,100	-	520	5.0	<0.50	15	6.8	2,700	-	-	-	-	-	-	-	
MW-4	08/15/2002	30.13	24.84	5.29	2,400	-	950	16	3.6	41	100	2,200	-	2,400 ¹²	-	840	<2.0	<2.0	110	
MW-4	09/06/2002	30.13	25.06	5.07	2,600	-	640	9.6	0.82	9.8	28	1,700	-	-	-	-	-	-	-	
MW-4	12/09/2002	30.13	25.20	4.93	1,400	-	280	3.6	<0.50	1.7	<1.5	730	-	-	-	-	-	-	-	
MW-4	03/03/2003	30.13	24.86	5.28	1,500	-	280	2.7	<0.50	7.3	2.3	910	-	-	-	-	-	-	-	
MW-4	03/17/2003 ¹⁴	30.13	24.69	5.44	2,000	-	880	8	1	38	18	-	-	1,100	-	520	<0.5	<0.5	110	
MW-4	09/16/2003 ¹⁴	30.13	24.98	5.15	2,100 ¹⁰	-	480	6	<1	11	3	-	-	710	<100	-	-	-	-	

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-anst	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	12/31/2003 ¹⁴	30.13	25.06	5.07	1,400	-	220	3	<0.5	2	<0.5	-	-	390	<50	-	-	-	-	-
MW-4	03/26/2004	30.13	24.53	5.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/17/2004 ¹⁴	30.13	25.45	4.88	2,100	-	470	12	1	28	4	-	-	370	<50	66	<0.5	<0.5	50	-
MW-4	11/16/2004 ¹⁴	33.07	25.44	7.63	960	-	270	7	<0.5	7	6	-	-	270	<50	-	-	-	-	-
MW-4	02/19/2005	33.07	25.00	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/06/2005 ¹⁴	33.07	24.69	6.38	350	-	86	0.7	<0.5	<0.5	<0.5	-	-	110	<50	21	<0.5	<0.5	8	-
MW-4	08/05/2005	33.07	25.02	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/07/2005 ¹⁴	33.07	25.33	7.74	150	-	54	0.6	<0.5	<0.5	<0.5	-	-	59	<50	-	-	-	-	-
MW-4	02/06/2006	33.07	24.94	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/08/2006 ¹⁴	33.07	24.27	8.80	200	-	66	0.5	<0.5	<0.5	<0.5	32	-	-	<50	-	-	-	-	-
MW-4	08/09/2006	33.07	25.16	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/09/2006 ¹⁴	33.07	25.23	7.84	400	-	55	<0.5	<0.5	<0.5	<0.5	40	-	-	<50	-	-	-	-	-
MW-4	02/09/2007	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/01/2007 ¹⁴	33.07	25.09	7.99	150	-	67	<0.5	<0.5	<0.5	<0.5	-	-	76	<50	10	<0.5	<0.5	6	-
MW-4	07/31/2007	33.07	25.27	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/08/2007 ¹⁴	33.07	25.42	7.65	850	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	44	<50	-	-	-	-	-
MW-4	02/04/2008	33.07	25.23	7.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/01/2008 ¹⁴	33.07	25.21	7.86	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	87	<50	12	<0.5	<0.5	4	-
MW-4	08/01/2008	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/13/2008 ¹⁴	33.07	25.43	7.64	330	-	64	<0.5	<0.5	<0.5	1	-	-	220	<50	-	-	-	-	-
MW-4	02/23/2009	33.07	25.06	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/20/2009	33.07	24.73	8.34	560	-	130	<0.5	<0.5	<0.5	<0.5	-	-	190	<50	58	<0.5	<0.5	6	-
MW-4	08/25/2009	33.07	24.97	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/18/2009	33.07	25.27	7.80	860	-	120	<0.5	<0.5	<0.5	<0.5	-	-	150	<50	-	-	-	-	-
MW-4	05/18/2010	33.07	24.73	8.34	340	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	70	<50	33	<0.5	<0.5	4	-
MW-4	12/01/2010	33.07	25.13	7.94	570	-	64 J	<0.5	<0.5	<0.5	<0.5	-	-	110	<50	-	-	-	-	-

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	05/04/2011	33.07	24.50	8.57	-	60 J	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	25	<50	49	<0.5	<0.5	<0.5
MW-4	12/09/2011	33.07	25.12	7.95	140	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	18	<50	-	-	-	-	-
MW-4	05/31/2012	33.07	24.75	8.32	140	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	17	<50	80	<0.5	<0.5	0.7 J	
MW-4	11/14/2012	33.07	25.22	7.85	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	21	<50	-	-	-	-	
MW-4	06/03/2013	33.07	25.28	7.79	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	7	<50	21	<0.5	<0.5	<0.5	
MW-4	12/12/2013	33.07	26.09	6.98	100	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	12	<50	-	-	-	-	
MW-4	05/30/2014	33.07	26.29	6.78	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	7	-	45	<0.5	<0.5	<0.5	
MW-4	12/08/2014	33.07	25.72	7.35	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	14	<50	-	-	-	-	
MW-4	08/19/2015	33.07	25.80	7.27	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	10	<50	18	<0.5	<0.5	<0.5	
MW-4	12/23/2015	33.07	25.93	7.14	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	13	<50	-	-	-	-	
MW-5	04/08/1999	30.93	-	-	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0 / <2.5	-	-	<500	<100	<2.0	<2.0	<2.0	
MW-5	08/17/1999	30.93	26.00	4.93	53 B ¹	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	09/29/1999	30.93	26.20	4.73	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	12/14/1999	30.93	26.32	4.61	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	0.598	-	-	-	-	-	-	-	
MW-5	03/09/2000 ³	30.93	25.93	5.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	08/10/2000	30.93	25.72	5.21	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	
MW-5	09/30/2000	30.93	26.14	4.79	130 ⁴	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	
MW-5	12/22/2000	30.93	29.33	4.60	250 ⁵	-	<50	<0.50	<0.50	<0.50	<0.50	9.1	-	-	-	-	-	-	-	
MW-5	03/01/2001	30.93	26.16	4.77	77.4 ⁷	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	
MW-5	05/04/2001	30.93	26.04	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	09/05/2001	30.93	26.21	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	12/21/2001	30.93	26.20	4.73	110	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	
MW-5	03/15/2002	30.93	25.87	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	06/15/2002	30.93	25.98	4.95	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	
MW-5	09/06/2002	30.93	26.16	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MtBE by VOC	MtBE by SW8240	MtBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	12/09/2002	30.93	26.32	4.61	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
MW-5	03/03/2003	30.93	25.99	4.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/17/2003 ^{1a}	30.93	25.87	5.08	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
MW-5	09/16/2003	30.93	26.09	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	12/31/2003 ^{1a}	30.93	26.21	4.72	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-	-
MW-5	03/26/2004	30.93	25.74	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/17/2004	30.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	04/08/1999	30.58	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	5.6/4.5	-	-	<500	<100	<2.0	<2.0	<2.0	-
MW-6	09/17/1999	30.58	24.59	5.99	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
MW-6	09/29/1999	30.58	24.77	5.81	<50	-	<50	<0.5	<0.5	<0.5	<0.5	4.46	-	-	-	-	-	-	-	-
MW-6	12/14/1999	30.58	24.84	5.74	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	4.13	-	-	-	-	-	-	-	-
MW-6	03/09/2000 ³	30.58	24.09	6.49	<50	-	<50	<0.5	<0.5	<0.5	<0.5	2.82	-	-	-	-	-	-	-	-
MW-6	09/10/2000	30.58	24.00	6.58	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
MW-6	09/30/2000	30.58	24.58	6.00	110 ⁹	-	<50	<0.50	<0.50	<0.50	<0.50	7.3	-	-	-	-	-	-	-	-
MW-6	12/22/2000	30.58	24.83	5.75	100 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	4.5	-	-	-	-	-	-	-	-
MW-6	03/01/2001	30.58	24.51	6.07	141 ⁷	-	<50.0	<0.500	<0.500	<0.500	<0.500	7.52	-	-	-	-	-	-	-	-
MW-6	05/04/2001	30.58	24.32	6.26	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	2.74	-	-	-	-	-	-	-	-
MW-6	09/05/2001	30.58	24.59	5.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/21/2001	30.58	24.65	5.93	200	-	<50	<0.50	<0.50	<0.50	<1.5	8.5	-	-	-	-	-	-	-	-
MW-6	03/15/2002	30.58	24.14	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	06/15/2002	30.58	24.33	6.25	<50	-	<50	<0.50	<0.50	<0.50	<1.5	4.3	-	-	-	-	-	-	-	-
MW-6	09/06/2002	30.58	24.60	5.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/09/2002	30.58	24.79	5.79	64	-	<50	<0.50	<0.50	<0.50	<1.5	5.0	-	-	-	-	-	-	-	-
MW-6	03/03/2003	30.58	24.44	6.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	06/17/2003 ^{1a}	30.58	24.11	6.47	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	13	-	-	-	-	-	-

Table 1
 Groundwater Monitoring and Sampling Data
 Chevron Service Station 94800
 1700 Castro Street
 Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TEA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	09/16/2003	30.58	24.52	6.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/31/2003 ¹⁴	30.58	24.58	6.00	<50	-	<50	<0.5	<0.5	<0.5	0.5	-	-	14	<50	-	-	-	-	-
MW-6	03/26/2004	30.58	23.89	6.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	08/17/2004	30.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/04/2001 ¹¹	31.90	27.87	4.03	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	567	-	470 ¹²	<500	57	<2.0	<2.0	11	
MW-7	09/05/2001	31.90	28.04	3.86	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,400	-	1,300 ¹²	<500	<100	<2.0	<2.0	32	
MW-7	12/21/2001	31.90	28.86	3.04	210	-	<50	<0.50	<0.50	<0.80	<1.5	620	-	670 ¹²	<500	<100	<2.0	<2.0	15	
MW-7	03/15/2002	31.90	27.72	4.18	<50	-	<50	<0.50	<0.50	<0.50	<1.5	350 / 320	-	350 ¹²	<500	<100	<2.0	<2.0	8	
MW-7	06/15/2002	31.90	27.84	4.06	<50	-	<50	<0.50	<0.50	<0.50	<1.5	850	-	860 ¹²	-	<100	<2.0	<2.0	18	
MW-7	09/06/2002	31.90	27.97	3.93	<50	-	59	<0.50	<0.50	<0.50	<1.5	1,900	-	-	-	-	-	-	-	
MW-7	12/08/2002	31.90	28.03	3.87	<50	-	68	<0.50	<0.50	<0.50	<1.5	2,200	-	-	-	-	-	-	-	
MW-7	03/03/2003	31.90	27.69	4.21	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,300	-	-	-	-	-	-	-	
MW-7	08/17/2003 ¹⁴	31.90	27.76	4.14	<50	-	79	<0.5	<0.5	<0.5	<0.5	-	-	2,500	-	37	<0.5	<0.5	53	
MW-7	09/16/2003 ¹⁴	31.90	27.83	4.07	<50 ¹⁷	-	110	<5	<5	<5	<5	-	-	4,400	<500	-	-	-	-	
MW-7	12/31/2003 ¹⁴	31.90	27.66	4.04	<50	-	76	<2.0	<2.0	<2.0	<2.0	-	-	3,000	<200	-	-	-	-	
MW-7	03/26/2004 ¹⁴	31.90	27.65	4.25	<50	-	61	<1	<1	<1	<1	-	-	2,000	-	-	-	-	-	
MW-7	08/17/2004 ¹⁴	31.90	27.88	4.02	2,200	-	130	<5	<5	<5	<5	-	-	8,000	<500	<50	<5	<5	140	
MW-7	11/16/2004 ¹⁴	34.35	27.87	6.48	<50	-	200	<3	<3	<3	<3	-	-	7,300	<250	-	-	-	-	
MW-7	02/18/2005 ¹⁴	34.35	27.60	6.75	64	-	86	<10	<10	<10	<10	-	-	5,700	<1,000	-	-	-	-	
MW-7	06/06/2005 ¹⁴	34.35	27.43	6.92	60	-	160	<5	<5	<5	<5	-	-	8,400	<500	<50	<5	<5	140	
MW-7	08/05/2005 ¹⁴	34.35	27.85	6.70	81 ¹⁸	-	500	<5	<5	<5	<5	-	-	20,000 ¹⁹	<500	-	-	-	-	
MW-7	11/07/2005 ¹⁴	34.35	27.79	6.58	68	-	300	<10	<10	<10	<10	-	-	24,000	<1,000	-	-	-	-	
MW-7	02/06/2006 ¹⁴	34.35	27.54	6.81	72 ²¹	-	300	<0.5	<0.5	<0.5	<0.5	14,000	-	-	<50	-	-	-	-	
MW-7	05/08/2006 ¹⁴	34.35	27.15	7.20	94	-	80	<2.0	<2.0	3	7	6,500	-	-	<200	-	-	-	-	
MW-7	08/08/2006 ¹⁴	34.35	27.53	6.82	150	-	520	<10	<10	<10	<10	17,000	-	-	<1,000	-	-	-	-	

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Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-SRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-cm/sf	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	11/08/2006 ¹⁴	34.35	27.75	6.60	440	-	900	△	△	△	△	41,000	-	-	<500	-	-	-	-	-
MW-7	02/06/2007 ¹⁴	34.35	27.76	6.59	200	-	590	△	△	△	△	-	-	31,000	<500	-	-	-	-	-
MW-7	05/01/2007 ¹⁴	34.35	27.65	6.70	190	-	380	△	△	△	△	-	-	14,000	<250	△10	△3	△3	△3	280
MW-7	07/31/2007 ¹⁴	34.35	27.75	6.60	270	-	570	△	△	△	△	-	-	15,000	<250	-	-	-	-	-
MW-7	11/08/2007 ¹⁴	34.35	27.83	6.52	150	-	520	△	△	△	△	-	-	25,000	<500	-	-	-	-	-
MW-7	02/04/2008 ¹⁴	34.35	27.69	6.66	87	-	540	△	△	△	△	-	-	17,000	<100	-	-	-	-	-
MW-7	05/01/2008 ¹⁴	34.35	27.72	6.63	<50	-	230	△	△	△	△	-	-	10,000	<500	△20	△5	△5	△5	170
MW-7	08/01/2008 ¹⁴	34.35	27.84	6.51	<50	-	330	△	△	△	△	-	-	12,000	<250	-	-	-	-	-
MW-7	11/13/2008 ¹⁴	34.35	28.01	6.34	04	-	390	△10	△10	△10	△10	-	-	16,000	<1,000	-	-	-	-	-
MW-7	02/23/2009 ¹⁴	34.35	27.65	6.70	100	-	270	△	△	△	△	-	-	11,000	<250	-	-	-	-	-
MW-7	05/20/2009	34.35	27.55	6.80	48 J	-	210	△	△	△	△	-	-	6,300	<100	31	△1	△1	△1	120
MW-7	08/25/2009	34.35	27.70	6.65	<100 U	-	180	△	△	△	△	-	-	5,700	<250	-	-	-	-	-
MW-7	11/18/2009	34.35	27.77	6.58	250	-	100	△	△	△	△	-	-	2,800	<130	-	-	-	-	-
MW-7	05/18/2010	34.35	27.51	6.84	180	-	76 J	△	△	△	△	-	-	2,400	<100	△4	△1	△2	△2	52
MW-7	12/01/2010	34.35	27.71	6.64	120	-	230	△0.5	△0.5	△0.5	△0.5	-	-	7,000	<50	-	-	-	-	-
MW-7	05/04/2011	34.35	27.35	7.00	-	86 J	150	△0.5	△0.5	△0.5	△0.5	-	-	4,200	<50	△2	△0.5	△1	△1	100
MW-7	12/09/2011	34.35	26.15	8.20	66 J	-	250	△0.5	△0.5	△0.5	△0.5	-	-	7,400	<50	-	-	-	-	-
MW-7	05/31/2012	34.35	27.40	6.95	81 J	-	240	△3	△3	△3	△3	-	-	10,000	<250	<10	△3	△3	△3	230
MW-7	11/14/2012	34.35	27.47	6.88	-	<50	320	△0.5	△0.5	△0.5	△0.5	-	-	8,200	<50	-	-	-	-	-
MW-7	08/03/2013	34.35	27.80	6.55	-	<50	60 J	△0.5	△0.5	△0.5	△0.5	-	-	1,400	<50	△2	△0.5	0.7 J	0.7 J	33
MW-7	12/12/2013	34.35	28.80	5.55	350	-	160	2	△0.5	△0.5	3	-	-	50	<50	-	-	-	-	-
MW-7	05/30/2014	34.35	26.02	6.33	-	<50	<50	△0.5	△0.5	△0.5	△0.5	-	-	990	-	5 J	△0.5	△1	△1	22
MW-7	12/08/2014	34.35	27.04	6.41	-	<50	<50	△0.5	△0.5	△0.5	△0.5	-	-	1,000	<50	-	-	-	-	-
MW-7	06/18/2015	34.35	28.07	6.28	-	<50	<50	△0.5	△0.5	△0.5	△0.5	-	-	910	<50	△2	△0.5	△1	△1	18
MW-7	12/23/2015 ²²	34.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	12/21/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	03/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	06/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	09/09/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	12/08/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	06/17/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/18/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/31/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	03/26/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/17/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/16/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/18/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/06/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/05/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/07/2005 ¹⁴	-	-	-	-	-	<50	0.6	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/06/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/06/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/01/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	07/31/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/08/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/04/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	06/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW6240	MTBE by SW6260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-ansi	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	11/13/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/23/2009 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/20/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/25/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/18/2009	-	-	-	-	-	<50	<0.5	0.5 J	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/18/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/01/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/04/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/31/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/14/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	06/03/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/12/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/30/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/08/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	06/19/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/23/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
Trip Blank	06/04/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	09/16/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/17/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/18/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	06/28/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-	-
Trip Blank	09/07/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/09/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/11/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-

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Chevron Service Station 94800
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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS							
					TPH-DRO	TPH-DRO w/ si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Trip Blank	06/17/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/14/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/09/2000 ⁹	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	06/10/2000	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	09/30/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/22/2000 ¹⁰	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/01/2001	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	05/04/2001	-	-	-	-	-	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500	-	-	-	-	-	-	-	-	-
Trip Blank	09/05/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-	-

Abbreviations and Notes:

- TOC = Top of casing
- DTW = Depth to water
- GWE = Groundwater elevation
- (ft-amsl) = Feet above mean sea level
- ft = Feet
- µg/L = Micrograms per liter
- TPH-DRO = Total petroleum hydrocarbons - diesel range organics
- TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
- VOCs = Volatile organic compounds
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylenes (Total)
- MTBE = Methyl tertiary butyl ether
- TBA = Tert-butyl alcohol

Table 1
Groundwater Monitoring and Sampling Data
Chevron Service Station 94800
1700 Castro Street
Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
Units	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

DIPE = Di-isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = Tert-amyl methyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated Value (The result is \geq the method detection limit and $<$ the limit of quantitation)

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Sample was extracted outside EPA recommended holding time.
- 3 TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.
- 4 EPA Method 8240.
- 5 Confirmation run.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates unidentified hydrocarbons >C16.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 11 Well development performed.
- 12 MTBE by EPA Method 8260.
- 14 BTEX and MTBE by EPA Method 8260.
- 15 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 910 ppb.
- 16 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 1,700 ppb.
- 17 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. Similar results were obtained in both extracts.
- 18 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.

Table 1

Groundwater Monitoring and Sampling Data
 Chevron Service Station 94800
 1700 Castro Street
 Oakland, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
Units		ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

- 19 Analytical result confirmed
- 20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- 21 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.
- 22 Dry.

**WELL CONSTRUCTION SPECIFICATIONS
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC</i>	<i>Total Depth (fbg)</i>	<i>Borehole Diameter (inches)</i>	<i>Casing Diameter* (inches)</i>	<i>Slot Size (inches)</i>	<i>Screen Interval (fbg)</i>	<i>Filter Pack (fbg)</i>	<i>Status</i>
MW-1	5/29/1997	34.01	31.5	8	2	0.010	10.5-30.5	9-30.5	Active
MW-2	5/29/1997	32.59	31.5	8	2	0.010	10.5-30.5	9-30.5	Active
MW-3	5/29/1997	34.16	31.5	8	2	0.010	10.5-30.5	9-30.5	Active
MW-4	3/23/1999	33.07	30	8	2	0.010	10.5-28.5	8-28.5	Active
MW-5	3/23/1999	30.93	30	8	2	0.010	10.5-28.5	8-28.5	Destroyed
MW-6	3/23/1999	30.58	30	8	2	0.010	10.5-28.5	8-28.5	Destroyed
MW-7	3/30/2001	34.35	30	8	2	0.010	10-30	9-30	Active

Abbreviations & Notes

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

fbg = Feet below grade

* = Casing material: Schedule 40 PVC

NA = Not available

TABLE 3

**WATER SUPPLY WELL SURVEY
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA**

Well No.	Owner	Location	Type	Year Installed	Distance From Site (feet)	Direction From Site
1	Bramalea Pacific, Inc.	1111 Broadway, Oakland	Irrigation	1990	2,200	South
2	Kaiser Center, Inc.	300 Lakeside Drive, Oakland	Irrigation	1991	3,200	East
3	Lakeside Corporation	244 Lakeside, Oakland	Irrigation	1977	3,400	East
4	Universal Foods Corporation	1384 Fifth Street, Oakland	Industrial	1969	5,300	Southwest
5	Oakland School District	Unknown	Irrigation	Unknown	Unknown	Unknown

TABLE 4
SENSITIVE RECEPTOR SURVEY
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Name	Address	Distance Feet	Direction
<u>Schools</u>			
Oakland School for the Arts	530 18th Street, Oakland	1,200	East
Envision Academy of Arts and Technology	1515 Webster Street, Oakland	2,500	Southeast
Lafayette Elementary School	1700 Market Street, Oakland	1,000	West
KIPP Bridge Charter School	991 14th St, Oakland, CA 94607	1,600	Southwest
Martin Luther King Junior Elementary	960 10th St, Oakland, CA 94607	2,000	Southwest
<u>Hospitals</u>			
None			
<u>Daycares</u>			
YMCA	756 21st Street, Oakland	1,000	North
Marjorie Family Daycare and Preschool	788 14Th Street, Oakland	1,100	Southwest
<u>Elder Care</u>			
The San Pablo Senior Residential Community	1955 San Pablo Avenue, Oakland	550	Northeast
<u>Surface Waters</u>			
Lake Merritt		2,500	East
Inner Oakland Harbor		3,000	South

ATTACHMENT 4

Attachment 4 – Vapor Intrusion Evaluation and Data

LTCP VAPOR SPECIFIC CRITERIA - PETROLEUM								
Closure Scenario								
Exemption: <u> X </u> Active fueling station exempt from vapor specific criteria; Active as of date: <u> April 11, 2017 </u>								
___ Scenario 1; ___ Scenario 2; ___ Scenario 3a; ___ Scenario 3b; ___ Scenario 4a without bioattenuation zone; ___ Scenario 4b with bioattenuation zone; ___ Site specific risk assessment demonstrates human health is protected; ___ Exposure controlled through use of mitigation measures or institutional controls; ___ Case closed in spite of not meeting the vapor specific media criteria								
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria								
Site Specific Data		Scenario 1	Scenario 2	Scenario 3A	Scenario 3B	Scenario 3C	Scenario 4a	Scenario 4b
Unweathered LNAPL	No LNAPL	LNAPL in gw	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	< 4 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	No criteria	≥ 5 feet
Depth to Shallowest Groundwater	23.50 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥ 5 feet	≥ 5 feet	≥ 5 feet
Total TPHg & TPHd in Soil in Bioattenuation Zone	770 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	No criteria	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	<0.5 µg/l	No criteria	No criteria	<100 µg/L	≥100 and <1,000 µg/L	<1,000 µg/L	No criteria	No criteria
Oxygen Data in Bioattenuation Zone	No Data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4%	No criteria	ncentrabo ttom of zone
Soil Vapor Depth Beneath Foundation	----	No criteria	No criteria	No criteria	No criteria	No criteria	5 feet	5 feet
Benzene Concentrations (µg/m ³)	Historic Max: ---- Current Max: ----	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 85; Com: < 280	Res: < 85K; Com: < 280K
Ethylbenzene Concentrations (µg/m ³)	Historic Max: ---- Current Max: ----	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 1,100; Com: < 3,600	Res: < 1,100K; Com: < 3,600K
Naphthalene Concentrations (µg/m ³)	Historic Max: ---- Current Max: ----	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 93; Com: < 310	Res: < 93K; Com: < 310K

Attachment 4 – Vapor Intrusion Evaluation and Data

LTCP VAPOR SPECIFIC CRITERIA – PETROLEUM (cont.)	
Vapor Intrusion to Indoor Air Analysis	
Onsite	The site meets the active fueling station exemption for the vapor specific criteria of the Low Threat Closure Policy.
Offsite	The closest downgradient structure to the site is at a distance of approximately 625 feet and, except for MTBE, all volatile compounds are non-detectable in downgradient well MW-7 located within 155 feet of release locations. Based on a vicinity crossgradient site (RO0000407; T0600102228; Peerless Stages), the depth to groundwater is slightly shallower than onsite depths; however, there appears to be a sufficient bioattenuation zone in the downgradient direction to be protective of structures in the downgradient direction from the risk of vapor intrusion.

ATTACHMENT 5

Attachment 5 – Direct Contact Evaluation and Data

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPSURE CRITERIA						
Closure Scenario						
<p>___ Exemption (no petroleum hydrocarbons in upper 10 feet), ___ Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below, ___ Site-specific risk assessment, ___ A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health, <u>X</u> A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls, ___ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria.</p>						
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria						
Are maximum concentrations less than those in Table 1 below?				Yes		
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 10 feet bgs (mg/kg)
Site Maximum	Benzene	15	3	15	3	15
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	17	13	17	13	17
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	< 0.020	< 0.01	< 0.020	< 0.01	< 0.020
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
Direct Contact and Outdoor Air Analysis						
Onsite	<p>This site does not meet this LTCP criterion due to residual soil concentrations of benzene between 0 to 5 and 5 to 10 feet bgs that exceed the LTCP criteria; however, these soil samples are over 19 years old, were located in a silty sand matrix, and are expected to have decreased by natural processes in the intervening years. ACDEH has evaluated case information and, as a result of controlling exposure through the use of institutional and engineering controls, has determined that the concentrations of petroleum constituents in soil will not have a significant risk of adversely affecting human health. Specifically, except for limited areas around the perimeter of the site, the site is entirely paved and exposure to site soils is prevented, except in controlled conditions. Additionally, exposure to contaminated soil and soil vapors is limited by low permeability pavements. As a commercial fueling facility, maintenance or construction workers employed at the facility are required by California regulations to be trained in health and safety concerns associated with volatile motor fuels, and thus are expected to be prepared for potential exposures in their standard work routines. Potential exposures to the general public are expected to be transitory and could occur only while temporarily present for the purpose of fueling their vehicles or obtaining related automotive services.</p> <p>This site also does not meet this LTCP criterion due to the lack of analysis in soil for naphthalene at soil sampling locations CT-4 and CB-6 that document the highest residual soil concentrations for TPH as gasoline and TPH as diesel at the site. The locations are not currently available for sampling as they are near or beneath existing</p>					

Attachment 5 – Direct Contact Evaluation and Data

	<p>product pipeline runs. The LUFT manual indicates that naphthalene is present at an average of 0.25% and a maximum of 0.36% in fresh gasoline product and an average of 0.26% and a maximum of 0.8% in fresh diesel. This indicates that naphthalene may be present at a concentration up to 5.12 mg/kg at these samples. This is below the Table 1 criteria for naphthalene for a commercial facility.</p> <p>Excavation or construction activities in areas of potential residual contamination will be managed with a land use restriction, and require planning and implementation of appropriate health and safety procedures by the responsible party, or current property owner, prior to and during excavation and construction activities.</p>
Offsite	The petroleum hydrocarbon soil plume does not extend offsite.

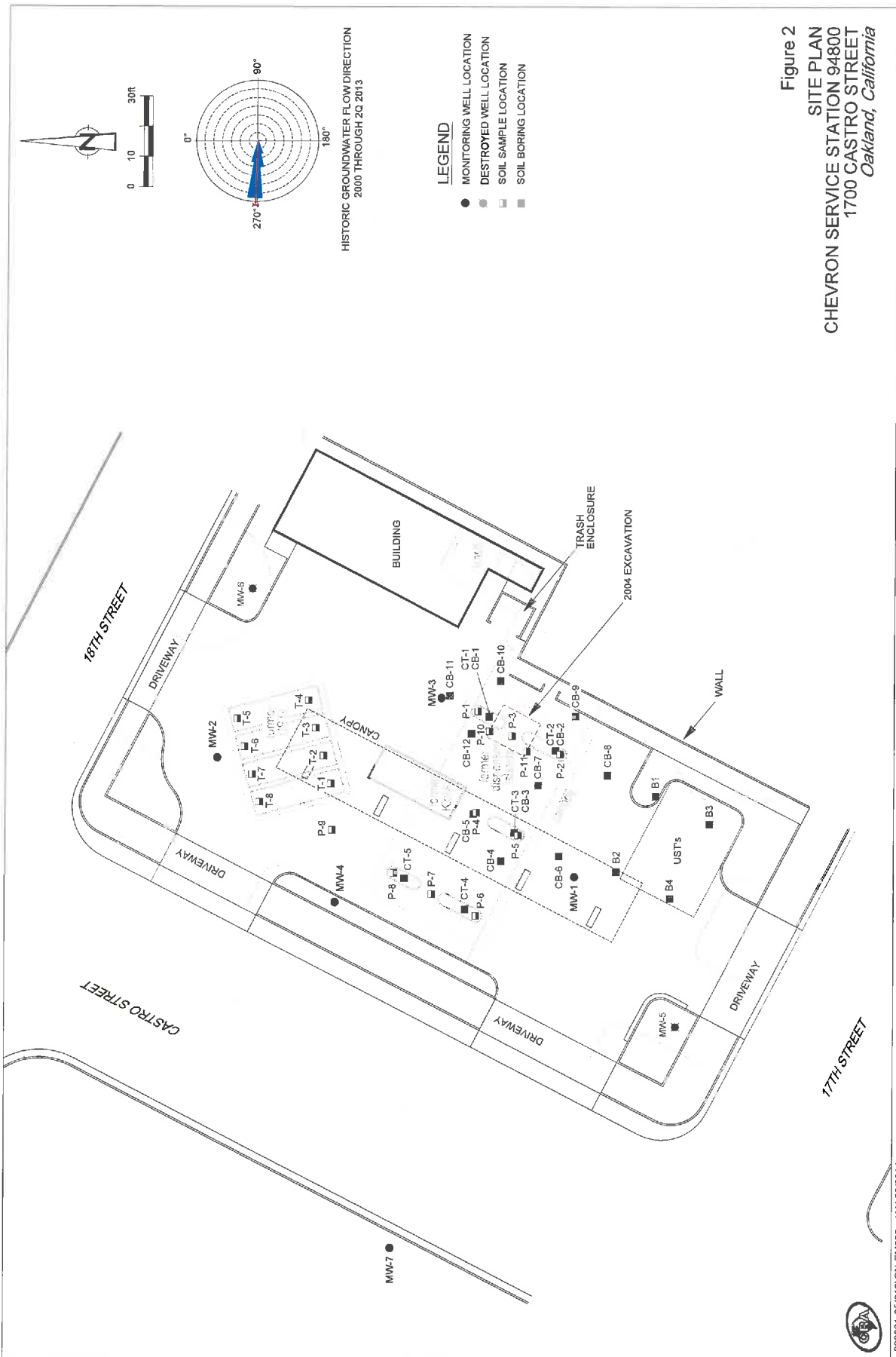
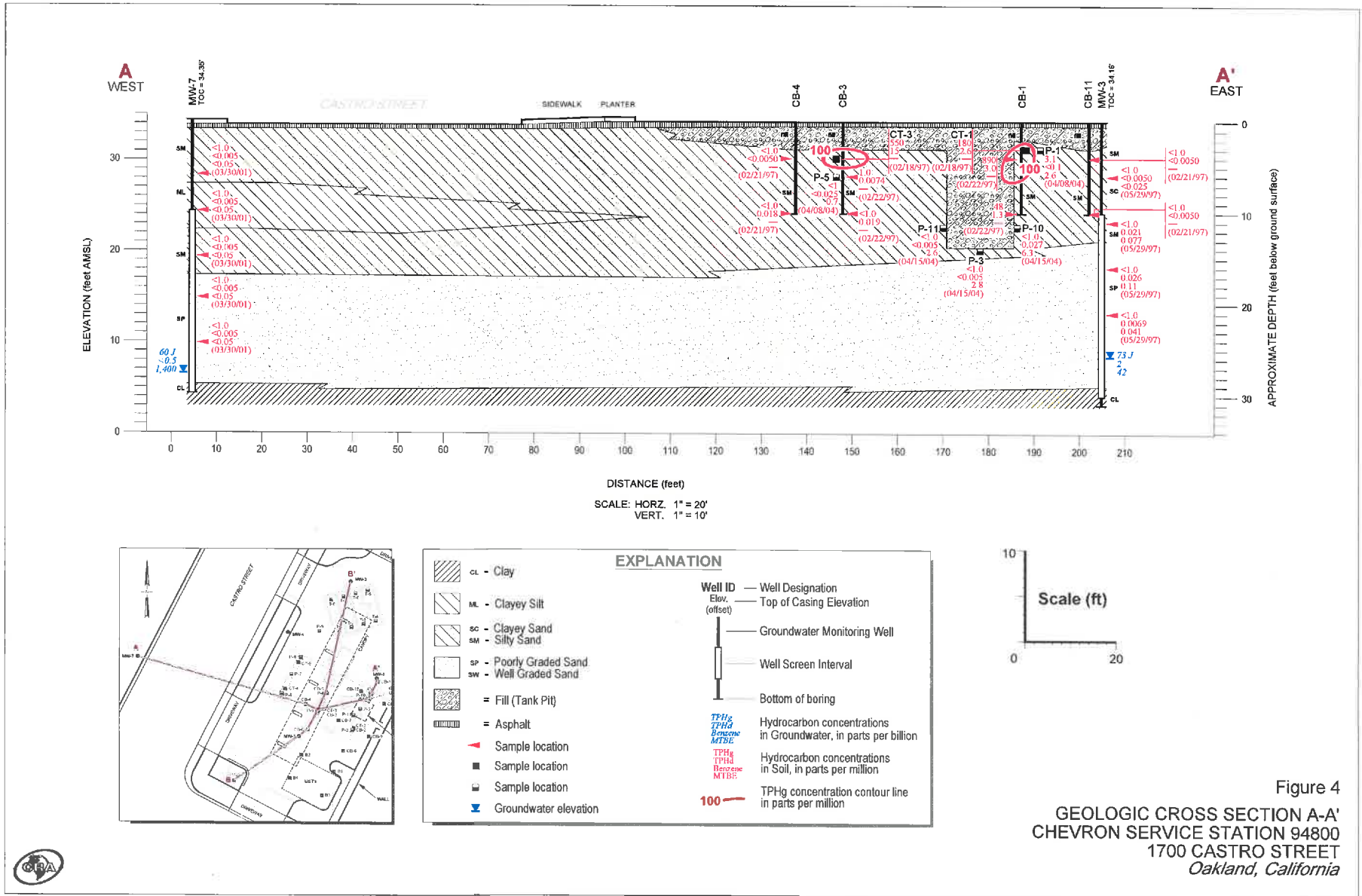


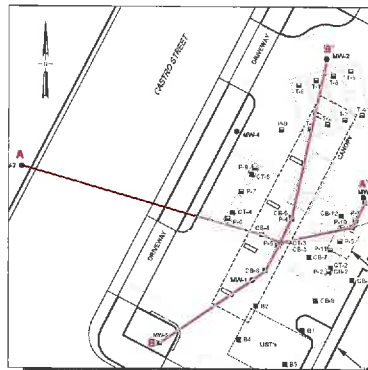
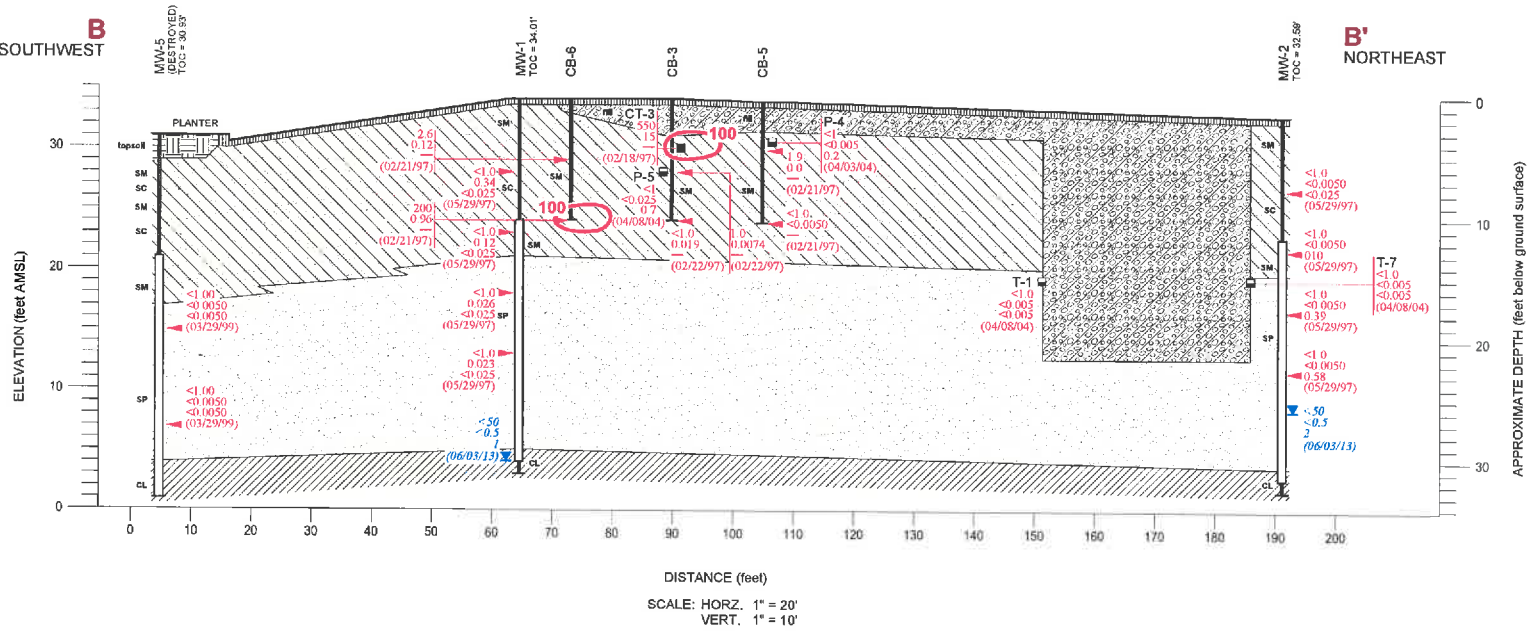
Figure 2
 SITE PLAN
 CHEVRON SERVICE STATION 94800
 1700 CASTRO STREET
 Oakland, California





B
SOUTHWEST

B'
NORTHEAST



EXPLANATION

	CL - Clay		Well ID
	ML - Clayey Silt		Elev. - Top of Casing Elevation
	SC - Clayey Sand		Groundwater Monitoring Well
	SM - Silty Sand		Well Screen Interval
	SP - Poorly Graded Sand		Bottom of boring
	SW - Well Graded Sand		Hydrocarbon concentrations in Groundwater, in parts per billion
	Fill (Tank Pit)		Hydrocarbon concentrations in Soil, in parts per million
	Asphalt		TPH concentration contour line in parts per million
	Sample location		
	Sample location		
	Sample location		
	Groundwater elevation		

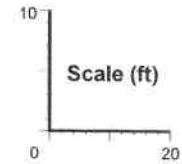
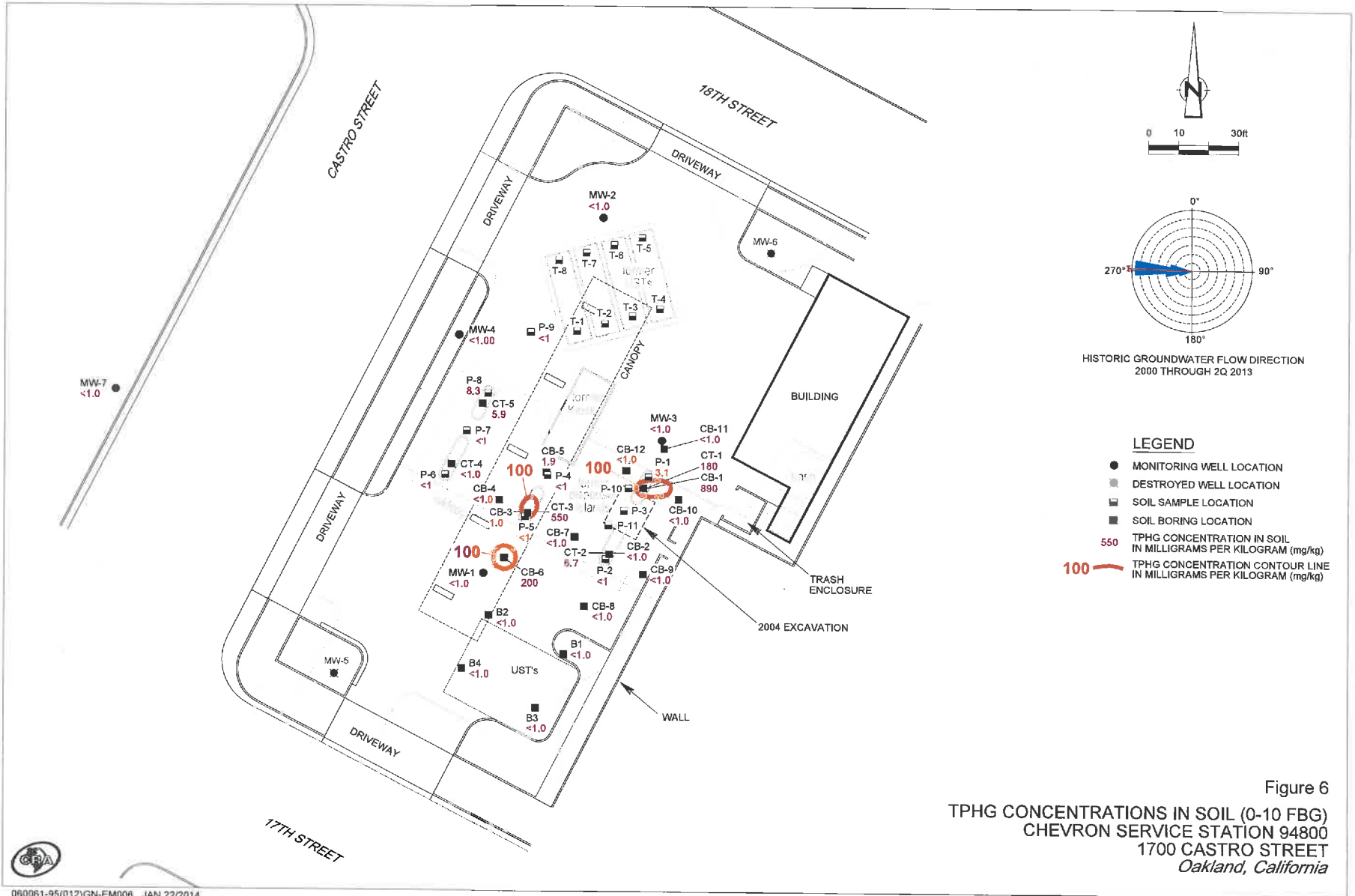
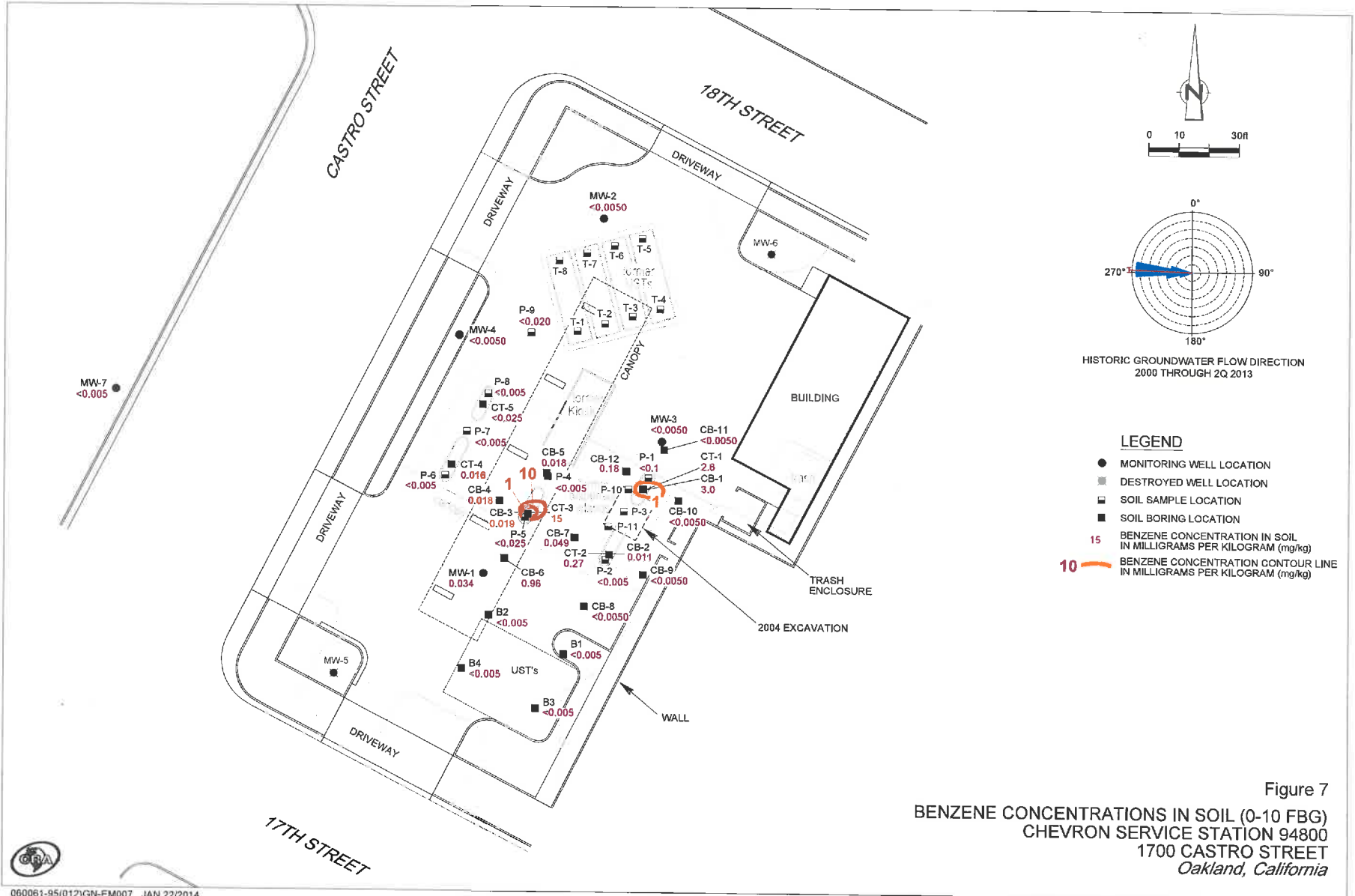


Figure 5
GEOLOGIC CROSS SECTION B-B'
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET
Oakland, California







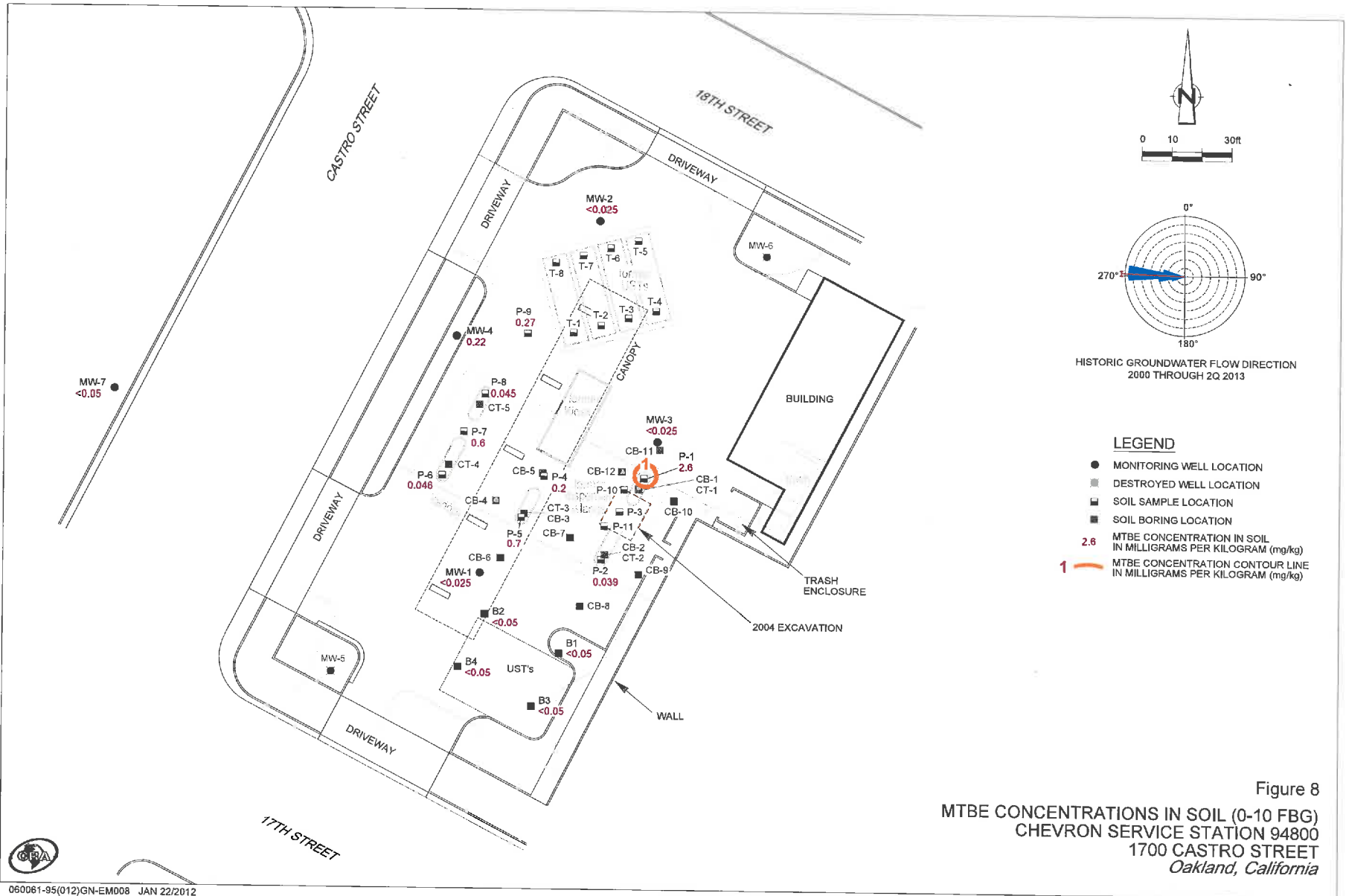


TABLE 1

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Waste Oil	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Oxygenates	Naph- thalene	Lead	Notes
<i>Low Threat Policy Criteria - Direct Contact and Outdoor Air Exposure</i>														
0 to 5 fbg, Residential - Direct Contact			--	--	100	1.9	--	21	--	--	--	9.7	--	
5 to 10 fbg, Residential - Outdoor Air			--	--	100	2.8	--	32	--	--	--	9.7	--	
0 to 5 fbg, C/I - Direct Contact			--	--	100	8.2	--	89	--	--	--	45	--	
5 to 10 fbg, C/I, Outdoor Air			--	--	100	12	--	134	--	--	--	45	--	
0 to 10 fbg, Utility Worker			--	--	100	14	--	314	--	--	--	219	--	
<i>700-Gallon Heating Oil UST</i>														
#1	01/26/87	8	14	--	--	--	--	--	--	--	--	--	--	
<i>Product Line Samples</i>														
CT-1	02/18/97	4	--	30	180	2.6	9.0	3.2	18	--	--	--	--	
CT-2	02/18/97	4	--	1.9	6.7	0.27	0.50	0.18	1.1	--	--	--	--	
CT-3	02/18/97	4	--	220	550	15	32	17	81	--	--	--	--	
CT-4	02/18/97	4	--	<1.0	<1.0	0.016	0.0055	0.019	0.010	--	--	--	--	
CT-5	02/18/97	4	--	19	5.9	<0.025	<0.025	<0.025	0.036	--	--	--	--	
<i>Soil Borings</i>														
CB-1	02/22/97	6	--	37	890	3.0	25	13	92	--	--	--	--	
	02/22/97	10	--	3.2	48	1.3	3.1	0.68	4.3	--	--	--	--	
CB-2	02/22/97	6	--	1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	0.011	<0.0050	0.012	0.034	--	--	--	--	
CB-3	02/22/97	6	--	<1.0	1.0	0.0074	0.015	0.012	0.085	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	0.019	0.045	0.0071	0.039	--	--	--	--	
CB-4	02/21/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/21/97	10	--	<1.0	<1.0	0.018	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-5	02/22/97	4	--	3.5	1.9	0.018	<0.0050	0.012	0.039	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-6	02/21/97	5	--	3.0	2.6	0.12	0.022	0.054	0.19	--	--	--	--	
	02/21/97	10	--	640	200	0.96	1.9	1.5	9.1	--	--	--	--	
CB-7	02/21/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/21/97	10	--	<1.0	<1.0	0.049	<0.0050	<0.0050	0.015	--	--	--	--	
CB-8	02/21/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	

TABLE 1

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Waste Oil	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Oxygenates	Naph- thalene	Lead	Notes
<i>Low Threat Policy Criteria - Direct Contact and Outdoor Air Exposure</i>														
0 to 5 fbg, Residential - Direct Contact			--	--	100	1.9	--	21	--	--	--	9.7	--	
5 to 10 fbg, Residential - Outdoor Air			--	--	100	2.8	--	32	--	--	--	9.7	--	
0 to 5 fbg, C/I - Direct Contact			--	--	100	8.2	--	89	--	--	--	45	--	
5 to 10 fbg, C/I, Outdoor Air			--	--	100	12	--	134	--	--	--	45	--	
0 to 10 fbg, Utility Worker			--	--	100	14	--	314	--	--	--	219	--	
	02/21/97	10	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-9	02/21/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-10	02/22/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-11	02/21/97	4	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
CB-12	02/21/97	4	--	<1.0	<1.0	0.098	<0.0050	<0.0050	<0.0050	--	--	--	--	
	02/22/97	10	--	<1.0	<1.0	0.18	0.0065	<0.0050	0.017	--	--	--	--	
<i>Monitoring Wells</i>														
MW-1	05/29/97	6	--	<1.0	<1.0	0.034	<0.0050	<0.0050	0.0068	<0.025	--	--	--	
	05/29/97	11	--	<1.0	<1.0	0.12	<0.0050	<0.0050	0.022	<0.025	--	--	--	
	05/29/97	16	--	<1.0	<1.0	0.026	0.020	<0.0050	0.020	<0.025	--	--	--	
	05/29/97	21	--	<1.0	<1.0	0.023	0.039	0.010	0.065	<0.025	--	--	--	
MW-2	05/29/97	6	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	
	05/29/97	11	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.10	--	--	--	
	05/29/97	16	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.39	--	--	--	
	05/29/97	21	--	1.9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.58	--	--	--	
MW-3	05/29/97	6	--	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	
	05/29/97	11	--	<1.0	<1.0	0.021	0.0063	<0.0050	0.0072	0.077	--	--	--	
	05/29/97	16	--	1.1	<1.0	0.026	0.032	<0.0050	0.026	0.11	--	--	--	
	05/29/97	21	--	<1.0	<1.0	0.0069	0.012	<0.0050	0.011	0.041	--	--	--	
MW-4	03/23/99	6	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	0.22	--	--	--	
	03/23/99	16	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
	03/23/99	23	--	--	<1.00	0.0051	<0.0050	<0.0050	<0.0050	0.45	--	--	--	

TABLE 1

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Waste Oil	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Oxygenates	Naphthalene	Lead	Notes
Milligrams per kilogram (mg/kg)														
<i>Low Threat Policy Criteria - Direct Contact and Outdoor Air Exposure</i>														
0 to 5 fbg, Residential - Direct Contact			--	--	100	1.9	--	21	--	--	--	9.7	--	
5 to 10 fbg, Residential - Outdoor Air			--	--	100	2.8	--	32	--	--	--	9.7	--	
0 to 5 fbg, C/I - Direct Contact			--	--	100	8.2	--	89	--	--	--	45	--	
5 to 10 fbg, C/I, Outdoor Air			--	--	100	12	--	134	--	--	--	45	--	
0 to 10 fbg, Utility Worker			--	--	100	14	--	314	--	--	--	219	--	
MW-5	03/23/99	16	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
	03/23/99	24	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
MW-6	03/23/99	16	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
	03/23/99	21	--	--	<1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
MW-7	03/30/01	6	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--	--	
	03/30/01	10	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--	--	
	03/30/01	15	--	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--	--	
	03/30/01	19.5	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--	--	
	03/30/01	24.5	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--	--	
<i>Soil Profile Borings</i>														
Comp-1 (B-1)	03/05/04		--	--	<1.0	<0.005	<0.005	<0.005	<0.02	<0.05	--	--	3.57	
Comp-2 (B-2)	03/05/04		--	--	<1.0	<0.005	<0.005	<0.005	<0.02	<0.05	--	--	3.41	
Comp-3 (B-3)	03/05/04		--	--	<1.0	<0.005	<0.005	<0.005	<0.02	<0.05	--	--	3.70	
Comp-4 (B-4)	03/05/04		--	--	<1.0	<0.005	<0.005	<0.005	<0.02	<0.05	--	--	4.02	
<i>Product Line Trench Sampling</i>														
P-1@ 6'	04/08/04	6	--	1.5	3.1	<0.1	<0.1	<0.1	0.28	2.6	1.2 ^p	<0.1	5.2	
P-2 @ 5'	04/08/04	5	--	<1	<1	<0.005	<0.005	<0.005	<0.005	0.039	0.0056 ^c	<0.005	5.5	
P-3 @ 5'	04/08/04	5	--	93	200	1.9	2.3	5.5	25	12	ND	2.2	5.6	Over-excavated on
P-3 @ 10'	04/08/04	10	--	45	110	1.2	3.2	3.1	15	19	ND	1.2	<5.0	Over-excavated on
P-4 @ 4'	04/08/04	4	--	<1	<1	<0.005	<0.005	<0.005	<0.005	0.2	0.073 ^p	<0.005	5.3	
P-5 @ 6'	04/08/04	6	--	<1	<1	<0.025	<0.025	<0.025	<0.025	0.7	0.27 ^p	<0.025	<5.0	
P-6 @ 5'	04/08/04	5	--	1.9	<1	<0.005	<0.005	<0.005	<0.005	0.046	ND	<0.005	5.7	
P-7 @ 6'	04/08/04	6	--	<1	<1	<0.005	<0.005	<0.005	<0.005	0.6	ND	<0.050	<5.0	
P-8 @ 4'	04/08/04	4'	--	54	8.3	<0.005	<0.005	<0.005	<0.005	0.045	0.12 ^p	<0.005	6.1	
P-9 @ 5'	04/08/04	5	--	<1	<1	<0.020	<0.020	<0.020	<0.020	0.27	ND	<0.020	7.4	
P-3 @ 12'	04/13/04	12	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	2.2	ND	--	6.4	Over-excavated on

TABLE 1

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Waste Oil	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Oxygenates	Naph- thalene	Lead	Notes
<i>Low Threat Policy Criteria - Direct Contact and Outdoor Air Exposure</i>														
0 to 5 fbg, Residential - Direct Contact			--	--	100	1.9	--	21	--	--	--	9.7	--	
5 to 10 fbg, Residential - Outdoor Air			--	--	100	2.8	--	32	--	--	--	9.7	--	
0 to 5 fbg, C/I - Direct Contact			--	--	100	8.2	--	89	--	--	--	45	--	
5 to 10 fbg, C/I, Outdoor Air			--	--	100	12	--	134	--	--	--	45	--	
0 to 10 fbg, Utility Worker			--	--	100	14	--	314	--	--	--	219	--	
P-10 @ 4'	04/13/04	4	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.62	0.33 ^o	--	<5.0	Over-excavated on
P-11 @ 4'	04/13/04	4	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.47	0.14 ^o	--	<5.0	Over-excavated on
P-3 @ 14'	04/15/04	14	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	2.8	ND	<0.1	6.6	
P-10 @ 12'	04/15/04	12	--	<1.0	<1.0	0.027	0.043	0.017	0.068	6.3	ND	<0.5	11	
P-11 @ 12'	04/15/04	12	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	2.6	ND	<0.1	9.1	
<i>Fuel UST Sampling</i>														
T-1 @ 14'	04/08/04	14	--	1.3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<5.0	
T-2 @ 14'	04/08/04	14	--	210	20	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<5.0	
T-3 @ 14'	04/08/04	14	--	710	13	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<5.0	
T-4 @ 14'	04/08/04	14	--	1,100	74	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<5.0	Over-excavated on
T-5 @ 14'	04/08/04	14	--	180	160	<0.1	<0.1	2.1	<0.1	<0.1	ND	2.2	5.9	
T-6 @ 14'	04/08/04	14	--	490	860	<2.0	<2.0	16	10	<2.0	ND	12	5.3	Over-excavated on
T-7 @ 14'	04/08/04	14	--	23	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<5.0	
T-8 @ 14'	04/08/04	14	--	1,700	170	<0.005	<0.005	<0.005	<0.005	0.021	ND	0.09	<5.0	Over-excavated on
T-4 @ 20'	04/12/04	20	--	6,200	520	<0.050	<0.050	0.18	0.47	0.092	0.055 ^o ,0.050 ^c	--	<5.0	
T-6 @ 20'	04/12/04	20	--	990	190	<0.050	0.13	0.32	0.61	0.15	0.24 ^o ,0.013 ^c	--	<5.0	
T-8 @ 20'	04/12/04	20	--	2,800	160	<0.050	<0.050	0.050	<0.050	0.17	0.16 ^o ,0.011 ^c	--	<5.0	

Notes:

Total petroleum hydrocarbons as diesel (TPHd) analyzed by EPA Method 8015B.

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified.

Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB) analyzed by EPA Method 8020 (from 1997-1999) and EPA Method 8260 (from 2001-2004).

Oxygenates by EPA Method 8260B

Lead by modified EPA Method 6010

TABLE 1

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Waste Oil	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Oxygenates	Naph- thalene	Lead	Notes
<i>Low Threat Policy Criteria - Direct Contact and Outdoor Air Exposure</i>														
0 to 5 fbg, Residential - Direct Contact			--	--	100	1.9	--	21	--	--	--	9.7	--	
5 to 10 fbg, Residential - Outdoor Air			--	--	100	2.8	--	32	--	--	--	9.7	--	
0 to 5 fbg, C/I - Direct Contact			--	--	100	8.2	--	89	--	--	--	45	--	
5 to 10 fbg, C/I, Outdoor Air			--	--	100	12	--	134	--	--	--	45	--	
0 to 10 fbg, Utility Worker			--	--	100	14	--	314	--	--	--	219	--	

Naphthalene by EPA Method 8260

fbg = feet below grade.

ESLs = Environmental Screening Levels for soil < 3m bgs in a commercial setting (Table A) from Environmental Screening for Sites

<x = Not detected at reporting limit x.

ND=not detected

a = Field error when labeling the sample container. Label indicates sample was collected at 12 fbg. Sample was actually collected at 4 fbg.

b = Tertiary butyl alcohol (TBA)

c = Tertiary-amyl methyl ether (TAME)

ATTACHMENT 6

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

Certified Mail # P 143 588 477
03/20/97

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

Notice of Responsibility

StID#: 3644
Chevron Station #9-4800
1700 Castro St
Oakland, CA 94612

SITE Date First Reported 03/18/97
Substance: Gasoline
Funding (Federal or State): F
Multiple RPs?: N

Mr. Phil Briggs
Chevron U S A
Po Box 5004
San Ramon C A 94583-0804


Responsible Party (RP)
Property Owner

You are hereby notified that pursuant to Section 25297.1 of the Health and Safety Code, the above site has been placed in the Local Oversight Program. The above individual(s) or entity(ies) has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 227-4349 or telephone (916) 227-4408.

Pursuant to Section 25299.37(c)(7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the site designation process.

Please contact Jennifer Eberle, Hazardous Materials Specialist at this office at (510) 567-6700 if you have any further questions.


Gordon Coleman, Acting Chief
Contract Project Director

Please Circle One Add Delete Change

Reason: new

C: Lori Casias, SWRCB
 Jennifer Eberle, Hazardous Materials Specialist

Report: Reimb97 1/97



COUNTY OF ALAMEDA
Assessor's Office

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[Map](#)

[Glossary](#)

Parcel Number: **3-59-13-2** Inactive: **N** Lien Date: **01/01/2016** Owner: **CHEVRON USA INC**

Property Address: **1700 CASTRO ST, OAKLAND, CA 94612-1314**

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
CHEVRON USA INC c/o CHEVRON SVCS COMPANY	List Owners PO BOX 285 , HOUSTON, TX 77001-0285	04/17/1973	1973-50835		<u>6</u>	<u>8500</u>

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

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 Click [here](#) for more information regarding supported browsers.

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ASSESSOR'S MAP 3

Code Area Nos. 17-022

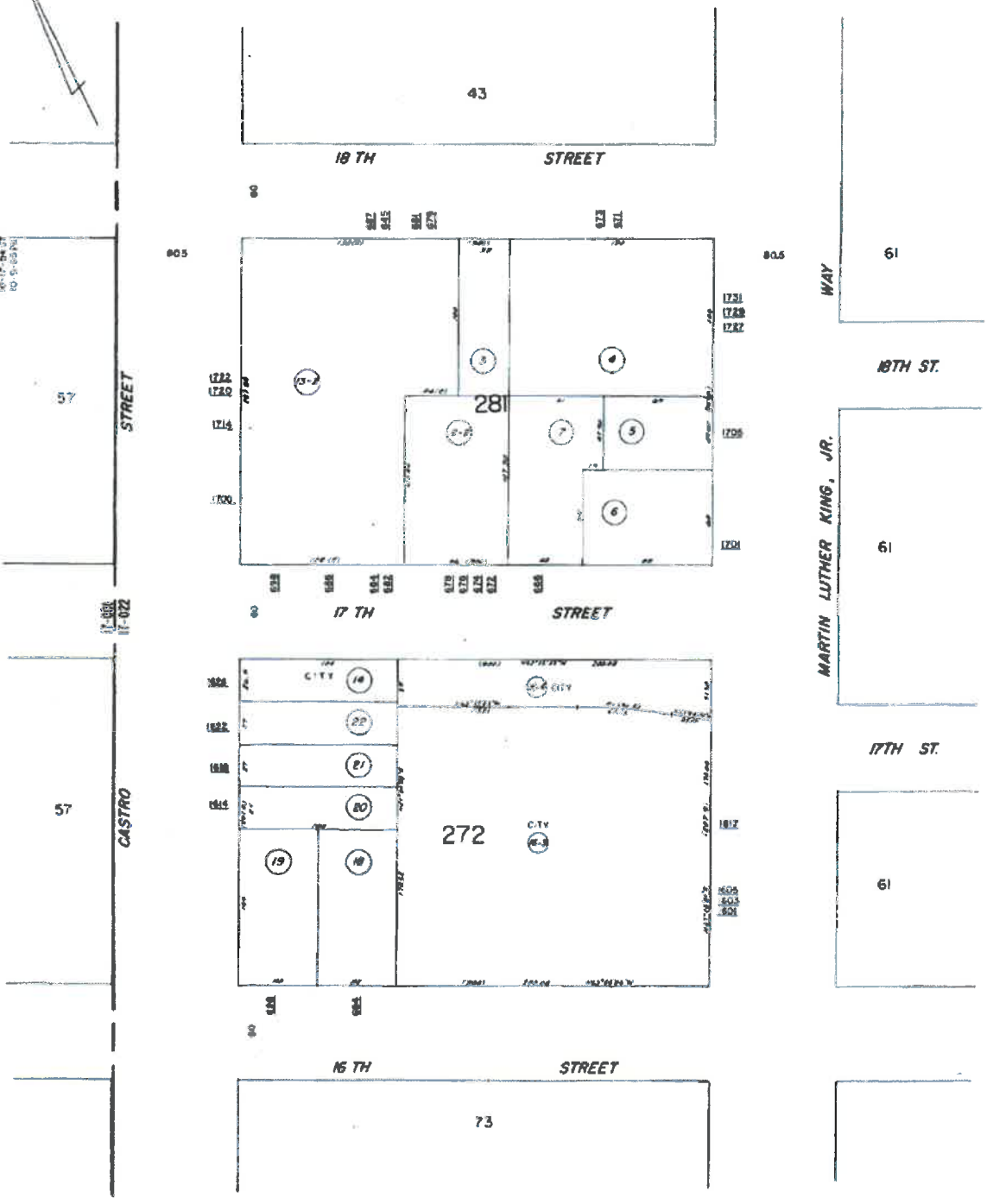
59

Scale: 1" = 50'

OAKLAND AND VICINITY (Blk 17 Pg. 14)

Deemed: 4-27-57
Revised: 3-19-73
14-1-80
18-1-87
19-5-87

Assembly: Blk. 237, 238



ACM

Reference



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Assessor's Office

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[Map](#)

[Glossary](#)

Parcel Number: **3-59-12** Inactive: **Y** Lien Date: **01/01/2016** Owner: **STANDARD OIL COMPANY OF CALIFORNIA**
Property Address: **1714 CASTRO ST, OAKLAND, CA 94612-1314**

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
--------------	----------------------------	---------------	-----------------	----------------------	--------------	-----

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

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Parcel History:

Now : 3-59-13-1

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COUNTY OF ALAMEDA
Assessor's Office

[HELP](#)

Property Value System

Property Search - There are four ways to search for property information: Parcel ID Number or Property Address or Property Owner's Name or Organization Name.

Step 1: Select a search type.

Step 2: Enter required (*) search information. Enter additional information to narrow your search.

Step 3: Click the submit button.

No Records Found.	
<p>Parcel ID Number</p> <p>* Parcel Number: <input type="text"/> (Enter Parcel Number as shown on your tax bill e.g., 123-345-67)</p> <p>or</p> <p>* Book Number: <input type="text"/> * Block Number: <input type="text"/></p> <p>or</p> <p>* Parcel Map Number: <input type="text"/></p> <p>or</p> <p>* Tract Number: <input type="text"/></p>	<p>Property Address</p> <p>Street Number: <input type="text" value="1720"/> (e.g., 1221) <input checked="" type="radio"/> Exact Match <input type="radio"/> Starts With</p> <p>Pre Directional: <input type="text" value=""/> (e.g., East, West)</p> <p>* Street Name: <input type="text" value="Castro"/> (e.g., Main, 10th) <input checked="" type="radio"/> Exact Match <input type="radio"/> Starts With</p> <p>Street Type: <input type="text" value="Street"/> (e.g., Street, Blvd.)</p> <p>Post Directional: <input type="text" value=""/> (e.g., East, West)</p> <p>Unit Number: <input type="text"/> (e.g., 101, A)</p> <p>City: <input type="text" value="Oakland"/> (e.g., Fremont, Oakland)</p>
<p>* Property Owner/Organization</p> <p>* Last Name/Organization: <input type="text"/> (e.g., Jones, Global Research Inc) <input checked="" type="radio"/> Exact Match <input type="radio"/> Starts With</p> <p>First Name: <input type="text"/> (e.g., Elmer)</p> <p>Middle Name or Initial: <input type="text"/> (e.g., G)</p>	

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[Glossary](#)

Parcel Number: **3-59-13** Inactive: **Y** Lien Date: **01/01/2016** Owner: **STANDARD OIL COMPANY OF CALIFORNIA**

Property Address: **1722 CASTRO ST, OAKLAND, CA 94612-1314**

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
--------------	----------------------------	---------------	-----------------	----------------------	--------------	-----

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

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Parcel History:

Now : 3-59-13-1

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Parcel Number: **3-59-13-1** Inactive: **Y** Lien Date: **01/01/2016** Owner: **STANDARD OIL COMPANY OF CALIFORNIA**
Property Address: **1700 CASTRO ST, OAKLAND, CA 94612-1314**

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
--------------	----------------------------	---------------	-----------------	----------------------	--------------	-----

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

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Parcel History:

Formerly : 3-59-1
 3-59-2
 3-59-9
 3-59-10
 3-59-11
 3-59-12
 3-59-13

Now : 3-59-13-2

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ATTACHMENT 7



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

INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

**Chevron #9-4800
1700 Castro Street, Oakland, California 94612
FUEL LEAK CASE RO0000342
GEOTRACKER GLOBAL ID T0600102076**

September 6, 2016

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-threat Closure Policy. Therefore, ACDEH is considering closure of the fuel leak case.

This notice is being sent to the current landowner in compliance with Health and Safety Code Section 25295.40. It is also being sent to the current occupants and landowners of adjacent properties and known interested parties for this site.

The public is invited to review and comment on the potential closure of the fuel leak case. The entire case file can be viewed over the Internet on the ACDEH website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.swrcb.ca.gov>). Please send written comments to Mark Detterman at the address below; all comments will be forwarded to the responsible parties. **Comments received by November 9, 2016 will be considered and responded to prior to a final determination on the proposed case closure.**

If you have comments or questions regarding this site, please contact the ACDEH caseworker, Mark Detterman at 510-567-6876 or by email at mark.detterman@acgov.org. Please refer to ACDEH case RO0000342 in any correspondence.

1701 MLK LP
2220 OXFORD ST
BERKELEY CA -94704-1389

ABOObAKER DAUNISH M
1915 WEST ST
OAKLAND CA -94612-1040

BRADLEY WILEMMA
773 19TH ST
OAKLAND CA -94612-1014

BROTHERS & WEST LLC
2625 ALCATRAZ AVE
BERKELEY CA -94705-2702

BUBNASH LACEY K & RHODES CHRISTOPHE
1933 WEST ST
OAKLAND CA -94612-1040

CHAN MICHAEL M & CINDY T
1614 CASTRO ST
OAKLAND CA -94612-1347

CHEN BEN W
4125 MAYBELLE AVE
OAKLAND CA -94619-2217

CHEN NICK C & JACK C
1080 HIAWATHA CT
FREMONT CA -94539-6957

CHEN NICK C & JACK C
1080 HIAWATHA CT
FREMONT CA -94539-6957

CHEVRON USA INC
PO BOX 285
HOUSTON TX -77001-0285

CITY OF OAKLAND
250 FRANK OGAWA PLZ #4
OAKLAND CA -94612-2033

CITY OF OAKLAND
250 FRANK OGAWA PLZ #4
OAKLAND CA -94612-2033

CITY OF OAKLAND
250 FRANK OGAWA PLZ #4
OAKLAND CA -94612-2033

CITY OF OAKLAND
250 FRANK OGAWA PLZ #4
OAKLAND CA -94612-2033

GONZALEZ MANUEL JR
1618 CASTRO ST
OAKLAND CA -94612-1347

GREATER ST PAUL MISSIONARY BAPTIST CH
1827 M L KING JR WAY
OAKLAND CA -94612-1348

GRIEGO IGNACIO & GRACETINE TRS
18032 COLUMBIA DR
CASTRO VALLEY CA -94552-1743

GULSETH ERICA E
1622 CASTRO ST
OAKLAND CA -94612-1347

HARP DAVID
851 BURLWAY RD #705
BURLINGAME CA -94010-1716

HARP DAVID
851 BURLWAY RD #705
BURLINGAME CA -94010-1716

HARRIS ROBERT G & CLACK BETTY J TRS
782 19TH ST
OAKLAND CA -94612-1015

HSU YUPAO & LIAO LIXIA
1929 WEST ST
OAKLAND CA -94612-1040

JOHNSON EARL D
769 19TH ST
OAKLAND CA -94612-1014

JOHNSON FREDRICK
34 CLYDE ST
SAN FRANCISCO CA -94107-1718

JOHNSON HAZEL J TR
4957 FAIRFAX AVE
OAKLAND CA -94601-4854

JONES NOLAN
PO BOX 22561
OAKLAND CA -94609-5161

KIM JIMMY P
131 CAMBRIDGE AVE
SAN LEANDRO CA -94577-1823

KLEIST KARI L
1729 BRUSH ST
OAKLAND CA -94612-1351

LAM TSIT Y & CHEE K
2931 AVALON AVE
BERKELEY CA -94705-1401

LAWSON LACYE P TR
781 18TH ST
OAKLAND CA -94612-1016

LAWSON LACYE P TR
781 18TH ST
OAKLAND CA -94612-1016

LEUNG SHING Y & GUO HAO L
684 18TH ST
OAKLAND CA -94612-1343

MARTIN TIMOTHY L & KIM APRIL
1811 BRUSH ST
OAKLAND CA -94612-1349

MOORE ERIK C
1923 WEST ST
OAKLAND CA -94612-1040

MYERHOFF NICHOLAS & ALICE B TRS & KEM
909 MARINA VILLAGE PKWY #182
ALAMEDA CA -94501-1048

NARAIN LUCKY & PRISCILLA
680 18TH ST
OAKLAND CA -94612-1339

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAK CENTER HOMES PARTNERS L P
3413 30TH ST
SAN DIEGO CA -92104

OAKLAND UNIFIED SCHOOL DISTRICT
1025 2ND AVE #316
OAKLAND CA -94606-2212

OCCUPANT
1600 MARKET ST
OAKLAND CA -94607

OCCUPANT
1702 MARKET ST
OAKLAND CA -94607

OCCUPANT
1628 WEST ST
OAKLAND CA -94612

OCCUPANT
1624 WEST ST
OAKLAND CA -94612

OCCUPANT
1618 WEST ST
OAKLAND CA -94612

OCCUPANT
784 16TH ST
OAKLAND CA -94612

OCCUPANT
776 16TH ST
OAKLAND CA -94612

OCCUPANT
770 16TH ST
OAKLAND CA -94612

OCCUPANT
17TH ST
OAKLAND CA -94612

OCCUPANT
758 16TH ST
OAKLAND CA -94612

OCCUPANT
769 17TH ST
OAKLAND CA -94612

OCCUPANT
777 17TH ST
OAKLAND CA -94612

OCCUPANT
783 17TH ST
OAKLAND CA -94612

OCCUPANT
772 18TH ST
OAKLAND CA -94612

OCCUPANT
752 17TH ST
OAKLAND CA -94612

OCCUPANT
1715 BRUSH ST
OAKLAND CA -94612

OCCUPANT
1721 BRUSH ST
OAKLAND CA -94612

OCCUPANT
CASTRO ST
OAKLAND CA -94612

OCCUPANT
1700 CASTRO ST
OAKLAND CA -94612

OCCUPANT
672 17TH ST
OAKLAND CA -94612

OCCUPANT
1727 18TH AVE
OAKLAND CA -94606

OCCUPANT
1705 M L KING JR WAY
OAKLAND CA -94612

OCCUPANT
1701 M L KING JR WAY
OAKLAND CA -94612

OCCUPANT
666 17TH ST
OAKLAND CA -94612

OCCUPANT
670 18TH ST
OAKLAND CA -94612

OCCUPANT
678 18TH ST
OAKLAND CA -94612

OCCUPANT
690 18TH ST
OAKLAND CA -94612

OCCUPANT
1812 CASTRO ST
OAKLAND CA -94612

OCCUPANT
696 18TH ST
OAKLAND CA -94612

OCCUPANT
1617 M L KING JR WAY
OAKLAND CA -94612

OCCUPANT
17TH ST
OAKLAND CA -94612

OCCUPANT
1626 CASTRO ST
OAKLAND CA -94612

OCCUPANT
1807 M L KING JR WAY
OAKLAND CA -94612

OCCUPANT
760 18TH ST
OAKLAND CA -94612

OCCUPANT
774 18TH ST
OAKLAND CA -94612

OCCUPANT
778 18TH ST
OAKLAND CA -94612

OCCUPANT
1808 WEST ST
OAKLAND CA -94612

OCCUPANT
1816 WEST ST
OAKLAND CA -94612

OCCUPANT
1801 WEST ST
OAKLAND CA -94612

OCCUPANT
1824 WEST ST
OAKLAND CA -94612

OCCUPANT
777 19TH ST
OAKLAND CA -94612

OCCUPANT
1820 WEST ST
OAKLAND CA -94612

OCCUPANT
1927 WEST ST
OAKLAND CA -94612

OCCUPANT
1917 WEST ST
OAKLAND CA -94612

OCCUPANT
1905 WEST ST
OAKLAND CA -94612

OCCUPANT
18TH ST
OAKLAND CA -94612

OCCUPANT
792 19TH ST
OAKLAND CA -94612

OCCUPANT
1701 MARTIN LUTHER KING JR WY
OAKLAND -94612

OCCUPANT
1617 MARTIN LUTHER KING JR WY
OAKLAND -94612

OCCUPANT
1727 18TH ST
OAKLAND -94612

OCCUPANT
1727 18TH AV
OAKLAND -94612

OCCUPANT
1726 WEST ST
OAKLAND -94612

OCCUPANT
1807 MARTIN LUTHER KING JR WY
OAKLAND -94612

OCCUPANT
1705 MARTIN LUTHER KING JR WY
OAKLAND -94612

OCCUPANT
1727 MARTIN LUTHER KING JR WY
OAKLAND -94612

OCCUPANT
1727 MARTIN LUTHER KING JR WY 109 #109
OAKLAND -94612

OCCUPANT
1632 WEST ST
OAKLAND -94612

OCCUPANT
799 17TH ST
OAKLAND -94612

OLEARY DENNIS
788 19TH ST
OAKLAND CA -94612-1015

PARENTAL STRESS SERIVCE INC
1727 M L KING JR WAY #109
OAKLAND CA -94612-1358

PARENTAL STRESS SERIVCE INC
1727 M L KING JR WAY #109
OAKLAND CA -94612-1358

REO COMMUNITY HOMES LLC
2026 MARKET ST
OAKLAND CA -94607-3336

REO HOMES 2 LLC
580 2ND ST #230
OAKLAND CA -94607-3546

REO HOMES 2 LLC
510 3RD ST #102
OAKLAND CA -94607-3528

ROCKRIDGE PROPERTIES LLC
P O BOX 111
PLEASANTON CA -94566-0011

ROCKRIDGE PROPERTIES LLC
P O BOX 111
PLEASANTON CA -94566-0011

ROSEN JAY S & THEBERGE MICHELE
831 54TH ST
EMERYVILLE CA -94608-3209

ROSS SHELIA
5839 TOOLEY ST
SAN DIEGO CA -92114-1330

RULE ADELAIDE C TR
901 PORTAL AVE
OAKLAND CA -94610-1240

SANFORD PAUL & LOOMIS KRISTEN E
752 18TH ST
OAKLAND CA -94612-1017

SBMANN2 LLC
4849 E 12TH ST
OAKLAND CA -94601-5107

SBMANN2 LLC
4849 E 12TH ST
OAKLAND CA -94601-5107

STATE OF CALIFORNIA
PO BOX 23440
OAKLAND CA -94623-0440

STUBBSHARDY ANTOINETTE & HARDY THOM
30831 BARRONS WAY
UNION CITY CA -94587-2581

TALBOT MARIAN
790 16TH ST #B
OAKLAND CA -94612-1068

TAYLOR NORRIS TR
1271 WASHINGTON AVE, PMB
SAN LEANDRO CA -94577-3646

TEEVEER MIKK
3315 WILLIS LN
ALAMEDA CA -94502-6955

VINCENT WILMA R.
663 61ST ST
OAKLAND CA -94609-1268

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cjohanne@ebmud.com

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COUNTY OF ALAMEDA Assessor's Office

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Parcel Number: 3-59-13-2 Inactive: N Lien Date: 01/01/2016 Owner: CHEVRON USA INC
Property Address: 1700 CASTRO ST, OAKLAND, CA 94612-1314

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
CHEVRON USA INC c/o CHEVRON SVCS COMPANY	List Owners PO BOX 285 , HOUSTON, TX 77001-0285	04/17/1973	1973-50835		6	8500

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