



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis St., Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: 10/1/14 REFERENCE NO.: ACEH CASE RO# 0274 (CRA 311806)
PROJECT NAME: Chevron 93322

TO: Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502
ACEH CASE RO# 0274

RECEIVED

By Alameda County Environmental Health at 4:02 pm, Oct 02, 2014

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other Electronic Submittal

QUANTITY	DESCRIPTION
1	Focused Site Conceptual Model and Data Gap Investigation Work Plan.

As Requested For Review and Comment
 For Your Use For approval and return

COMMENTS:

Please find enclosed the report referenced above as you requested.
Please contact Nate Lee regarding the report, 925-849-1003.

Copy to: Alexis Fischer

Completed by: Celina Hernandez for Nate Lee Signed: 
[Please Print]

Filing: **Correspondence File**



Alexis Fischer
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6441
Fax (925) 549-1441
afischer@chevron.com

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

Re: Chevron Service Station No. 93322
7225 Bancroft Avenue
Oakland, CA
ACEH CASE RO# 0274

I have reviewed the attached report titled *Focused Site Conceptual Model and Data Gap Investigation Work Plan*.

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

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

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in blue ink that reads "Alexis Fischer".

Alexis Fischer
Project Manager

Attachment: *Focused Site Conceptual Model and Data Gap Investigation Work Plan*



FOCUSED SITE CONCEPTUAL MODEL AND DATA GAP INVESTIGATION WORK PLAN

**FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA
ACEH CASE RO# 0274**

Prepared for:

**Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577**

**Prepared by:
Conestoga-Rovers
& Associates**

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: <http://www.CRAworld.com>

**OCTOBER 1, 2014
REF. NO. 311806 (23)**



FOCUSED SITE CONCEPTUAL MODEL AND DATA GAP INVESTIGATION WORK PLAN

FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA
ACEH CASE RO# 0274



Celina Hernandez, PG 8931

Prepared by:
**Conestoga-Rovers
& Associates**

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: <http://www.CRAworld.com>

OCTOBER 1, 2014
REF. NO. 311806 (23)

Table of Contents

	Page
Section 1.0 Introduction.....	1
Section 2.0 Site Background	1
2.1 Site Description.....	1
2.2 Previous Environmental Work	2
2.3 Site Geology	2
2.4 Site Hydrogeology.....	3
Section 3.0 Site Conceptual Model	3
3.1 Petroleum Hydrocarbon Source Areas	3
3.2 Light Non-Aqueous Phase Liquid	4
3.3 Distribution of Constituents of Concern	4
3.4 Petroleum Hydrocarbon Distribution in Soil.....	4
3.5 Petroleum Hydrocarbon Distribution in Groundwater.....	5
3.6 Hydrocarbon Concentration Trends	7
3.7 Petroleum Hydrocarbon Distribution in Soil Vapor	7
3.8 Petroleum Hydrocarbon Source Remediation.....	9
3.9 Sensitive Receptors.....	10
Section 4.0 Conclusions/Data Gaps and Recommendations	10
4.1 Conclusions and Data Gaps.....	10
4.2 Recommendations.....	11
Section 5.0 Work Plan for Additional Subsurface Investigation	12
5.1 Permits and Inspection	12
5.2 Site Specific Health and Safety Plan.....	12
5.3 Utility Location and Clearance	12
5.4 Sensitive Receptor and Preferential Pathway Survey.....	12
5.5 Soil Sampling.....	12
5.6 Groundwater Sampling.....	13
5.7 Soil Vapor Sampling	13
5.8 Chemical Analysis.....	13
5.9 Waste Disposal.....	14
5.10 Reporting	14
Section 6.0 Closing.....	14

**List of Figures
(Following Text)**

Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	Geologic Cross Section A-A'
Figure 4	Geologic Cross Section B-B'
Figure 5	Geologic Cross Section C-C'
Figure 6	Groundwater Elevation Map
Figure 7	Maximum TPHg Concentrations in Soil – 0 to 5 fbg
Figure 8	Maximum TPHg Concentrations in Soil – >5 to 10 fbg
Figure 9	Maximum TPHg Concentrations in Soil – >10 to 15 fbg
Figure 10	Maximum TPHg Concentrations in Soil – >15 to 30 fbg
Figure 11	Maximum Benzene Concentrations in Soil – 0 to 5 fbg
Figure 12	Maximum Benzene Concentrations in Soil – >5 to 10 fbg
Figure 13	Maximum Benzene Concentrations in Soil – >10 to 15 fbg
Figure 14	Maximum Benzene Concentrations in Soil – >15 to 30 fbg
Figure 15	TPHg Concentrations in Groundwater
Figure 16	Benzene Concentrations in Groundwater
Figure 17	MTBE Concentrations in Groundwater
Figure 18	Proposed Soil Boring Locations

**List of Tables
(Following Text)**

Table 1	Cumulative Soil Analytical Data
Table 2	Cumulative Soil Analytical Data-Metals
Table 3	Cumulative Grab-Groundwater Analytical Data
Table 4	Groundwater Monitoring and Sampling Data
Table 5	Monitoring Well Construction Detail
Table 6	Cumulative Soil Vapor Analytical Data

List of Appendices

- Appendix A Regulatory Correspondence
- Appendix B EDR Report
- Appendix C Previous Site Environmental Work and Adjacent Site Data
- Appendix D Boring Logs
- Appendix E LNAPL Fingerprint Report
- Appendix F Concentration Trend Graphs
- Appendix G Well Survey Map and Table
- Appendix H Standard Operating Procedures

Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) prepared this *Focused Site Conceptual Model and Data Gap Investigation Work Plan* (Work Plan) for the site referenced above on behalf of Chevron Environmental Management Company (EMC). In a letter dated April 7, 2014 (Appendix A), Alameda County Environmental Health Services (ACEH) requested preparation of a Revised Data Gap Investigation Work Plan, supported by a focused Site Conceptual Model (SCM) that addresses several technical comments. The purpose of this report is to provide a SCM using all available data, address ACEH's technical comments, identify data gaps required to make remedial and closure decisions, and present a work plan to address the identified data gaps. Presented below are the site background, site geology, SCM, CRA's conclusions and recommendations, and the Work Plan.

Section 2.0 Site Background

2.1 Site Description

The site is a former Chevron service station located at 7225 Bancroft Avenue at the intersection of Bancroft Avenue and 73rd Avenue in Oakland, California (Figure 1). The site is currently an active Valero branded service station, consisting of three 10,000-gallon single walled fiberglass underground storage tanks (USTs), five dispenser islands, a small kiosk building, and an additional building housing restrooms (Figure 2). Chevron owned the property and operated a service station there from approximately 1961 through September 2000, when they sold the property to Malwa Petroleum Sales, LLC (Malwa). Malwa sold the property to the current owners, Mike and Dean Najdawi in July 2001.

Sanborn maps and historical aerial photographs¹ (Appendix B) indicate the same station configuration from initial construction in the 1960s to at least 1986. A 1987² historical aerial photograph shows the current station configuration; therefore, sometime between 1981 and 1987 the current station configuration was constructed. In 1996, Chevron upgraded the dispenser and product piping. Chevron records indicate the current USTs were installed in 1981. In 1981, no regulations existed that required soil or groundwater sampling to document conditions associated with the fuel system. These tanks represent at least the second generation of USTs at the site. In 1976, the station consisted of one 2,000 gallon UST, one 5,000-gallon UST, one 7,500-gallon UST, two dispenser islands, and a station building as indicated by a 1976 as-built site plan. The 1976 as-built site plan references a used-oil tank of unknown size located within the station building (east side) and this section of the building was removed by 1981².

Surrounding land use is mixed residential and commercial, consisting primarily of homes to the northwest, southwest, and south. Eastmont Mall is located to the northeast across Bancroft Avenue. A

¹ *The EDR Aerial Photo Decade Package and Certified Sanborn Map Report*, Environmental Data Resources, Inc., July 2, 2007.

² Additional historical aerial photographs were reviewed on the website <http://www.historicaerials.com>

Union 76 branded service station is located across Bancroft Avenue to the northeast. From at least 1925 to 1960, based on review of Sanborn maps and historical aerial photographs (Appendix B), the area northeast of the site and what is currently the Eastmont Mall was a former General Motors Company (Chevrolet) assembly plant and railroad tracks associated with the assembly plant. In 1959, Bancroft Avenue was reconstructed by narrowing to the present day configuration (Figure 2). During this reconstruction the site property to the east was extended along the former road (Bancroft Avenue). By 1966, the assembly plant was demolished, a small mall and a gas station were present, and the railroad tracks were removed.

An active gas station site (ACEH Case Number 0356, former BP service station) is located northeast of the site. The primary contaminants of concern (COCs) in soil and groundwater are total petroleum hydrocarbons as gasoline (TPHg) and benzene. The highest TPHg and benzene concentrations in soil were detected at the southwest corner of the site in MW-4 at 6,000 milligrams per kilogram (mg/kg) and 34 mg/kg, respectively.³ Groundwater monitoring and sampling at the former BP station has continued since January 1992. Current groundwater flow direction and gradient is variable, but groundwater appears to primarily flow to the northeast with an average gradient of 0.015.⁴ The highest hydrocarbon concentrations in groundwater are located on the southwest corner of the former BP station at well DPE-5. Offsite BP well MW-8 (crossgradient) and MW-9 (upgradient) have no detectable hydrocarbon concentrations (Appendix C).

2.2 Previous Environmental Work

The site has been an open environmental case since 1996 under ACEH jurisdiction (Fuel Leak Case Number RO0000274 and GeoTracker Global ID T0600102079). To date, a total of ten monitoring wells have been installed, five soil borings have been advanced, four soil vapor probes have been installed, and twelve confirmatory samples have been collected (Figure 2). Groundwater monitoring and sampling began in 1998. Remedial activities have consisted of over-excavation during product piping removal and replacement, and surfactant injection and extraction from wells MW-1 and MW-7. A summary of previous environmental investigation and remediation is included in Appendix C.

2.3 Site Geology

The site is located within the Oakland sub-area of the East Bay Plain groundwater basin.⁵ This basin encompasses approximately 115 square miles and is bounded by San Pablo Bay to the north, Alameda County to the south, the Hayward Fault to the east, and the San Francisco Bay to the west. Sediments beneath the site are likely Holocene and late Pleistocene alluvial fans interbedded with the Yerba Buena Mud Member⁴. Locally, the site is underlain primarily by interbedded clay, silt, and gravel. Fine-grained

³ *Site Conceptual Model*, Antea Group, March 14, 2014

⁴ *Semi-Annual Summary Report, October 2013 through March 2014*, Antea Group, May 1, 2014

⁵ *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, Alameda and Contra Costa Counties, CA prepared by the California Regional Water Quality Control Board San Francisco Bay, August 4, 1999

soils consisting of clay to sandy clay exist between the surface and 11-15 fbg. Clayey gravel grading to sandy gravel underlies the clay layer to approximately 34 feet below grade (fbg). A 5-foot thick, discontinuous silt unit was observed during installation of wells MW-3 through MW-6 from 20-25 fbg, along the northwestern area of the property. Boring logs are included in Appendix D and geologic cross-sections are presented as Figures 3 through 5.

2.4 Site Hydrogeology

Groundwater in the East Bay Plain basin is designated as a potential drinking water source; however, groundwater in the basin is not currently used as a municipal drinking water supply due to readily available, high-quality imported surface water.¹ Site topography is relatively flat at an elevation of approximately 40 feet above mean sea level (ft-amsl). Surrounding topography slopes towards the San Francisco Bay, approximately 2 miles west of the site. Depth to groundwater has historically ranged from 4.83 (MW-1) to 21.92 (MW-5) fbg with an average of about 15 fbg. Groundwater flows predominantly to the northwest with a current gradient of 0.03 (Figure 6).

Section 3.0 Site Conceptual Model

In a letter dated, April 7, 2014, ACEH requested a focused SCM incorporating all available data; this SCM is presented below. Cumulative soil analytical data is presented in Tables 1 and 2. Cumulative groundwater monitoring and sampling data and grab-groundwater analytical data are presented in Tables 3 and 4, respectively. Well construction details are presented in Table 5 and soil vapor data are presented in Table 6. The distribution of hydrocarbons in soil and groundwater are presented in Figures 3 through 5 and 7 through 17.

3.1 Petroleum Hydrocarbon Source Areas

The potential sources of petroleum hydrocarbons at the site are the 1981 or earlier former dispenser islands near well MW-1, the adjacent existing central dispenser island based on the 1996 soil confirmation samples collected during a piping upgrade, and the former piping elbow mentioned in ACEH's April 7, 2014 letter near the former and existing USTs.

ACEH indicates in their April 7, 2014 letter that a third release has occurred at the site based on elevated ethanol analytical detection limits. No ethanol has been detected at the site and the elevated ethanol detection limits are related to high dissolved concentrations of petroleum hydrocarbons in wells MW-1 and MW-7 creating higher dilution factors that raise the ethanol detection limits. Furthermore, Chevron sold the site in September 2000 prior to the widespread use of ethanol as an oxygenate. If ACEH suspects an ethanol release has occurred then one of the subsequent station operators should be responsible for this assessment.

3.2 Light Non-Aqueous Phase Liquid

Historically, light non-aqueous phase liquid (LNAPL) was observed in monitoring well MW-1 starting in June 1999 and detected intermittently during monitoring and sampling events. The maximum thickness was 0.74 feet measured in February 2006. In 2005, LNAPL in MW-1 was fingerprinted as weathered leaded gasoline, consisting primarily of tetraethyl-lead, which indicates that the source is from an older leaded fuel release likely from the former dispensers prior to 1981 (Appendix E). No measurable LNAPL has been detected in MW-1 since October 2007, after surfactant treatment and extraction. The California State Water Resources Control Board (SWRCB), Leaking Underground Fuel Tank (LUFT) Guidance Manual states that TPHg concentrations at least 100,000 µg/L and benzene concentrations at least 29,000 micrograms per liter (µg/L) are indicative of LNAPL.⁶ Considering the age of the LNAPL in MW-1 and the potential for weathering, dissolved TPHg and benzene concentrations in MW-1 are indicative of LNAPL trapped in the vicinity soil pore space. However, the LNAPL was removed sufficiently using surfactants that it is no longer mobile as indicated by its absence in well MW-1.

3.3 Distribution of Constituents of Concern

In terms of the State Water Resource Control Board's *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP) criteria (effective August 17, 2012), the primary COCs (risk drivers) in soil between 0 and 10 fbg are TPHg, benzene, ethylbenzene, naphthalene and poly-aromatic hydrocarbons (PAHs); and in groundwater are benzene and MTBE. In soil vapor the primary COCs are benzene, ethylbenzene, naphthalene. Hydrocarbon concentrations in soil and groundwater are shown on Figures 3 through 5 and 7 through 17. The groundwater elevation map is presented as Figure 6. Cumulative soil, groundwater, and soil gas data are presented in Tables 1 through 4 and 6.

3.4 Petroleum Hydrocarbon Distribution in Soil

Soil samples were collected between 1996 and 2005 (Tables 1 and 2). Hydrocarbons in soil appear to have originated primarily from the former fuel dispensers and former USTs from at least 1981 as indicated by the soil data. Cross-sections presented as Figure 3 through 5 present the vertical and lateral distribution. Figure 7 through 14 present the distribution of soil in shallow and deep soil between 0 and 30 fbg. Some of the highest hydrocarbon concentrations were detected between 15 and 24 fbg in sand and gravel beneath the groundwater table. The highest TPHg, benzene and ethylbenzene concentrations were detected in saturated soil at approximately 24 fbg at boring SB-5 located downgradient of the USTs: 1,400 mg/kg TPHg (Figure 10), 3.1 mg/kg benzene (Figure 14), and 28 mg/kg ethylbenzene. The highest MTBE concentration was 1.7 mg/kg detected at boring B-2 at 18 fbg. Residual hydrocarbon concentrations in shallow soil (0 to 5 fbg) are generally limited to the vicinity of the former product piping at dispensers at samples P6, P7, and P8 with the highest concentrations of

⁶ California State Water Resources Control Board (SWRCB), *Leaking Underground Fuel Tank (LUFT) Guidance Manual*, Chapter 13, p. 18 (of Chapter 13).

500 mg/kg TPHg (Figure 7), 4.2 mg/kg benzene (Figure 11), 7.3 mg/kg ethylbenzene, and 1.1 mg/kg MTBE.

Only residual TPHg between 0 to 10 fbg detected in samples P6, P7, and P8 located at the dispenser southwest of well MW-1 exceed 100 mg/kg or greater of TPHg. Benzene concentrations do not exceed the LTCP criteria for commercial/industrial land use or for utility worker exposure between 0 and 10 fbg. Ethylbenzene is below residential, commercial/industrial land use, and utility worker LTCP criteria for soil between 0 and 10 fbg.

Residual hydrocarbons in soil are delineated laterally in all directions except TPHg southwest and southeast of the USTs. Soil is not delineated vertically near the two source areas (former USTs and dispensers) near well MW-1 and boring SB-5 greater than 15 and 24 fbg where the highest hydrocarbons in soil have been detected at other locations.

Other COCs detected onsite in 2000 with the highest concentrations of lead, polycyclic aromatic hydrocarbons (PAHs), pesticides, and polychlorinated biphenyls (PCBs) are presented below:

- 8.2 mg/kg lead in SB-4 at 18 fbg
- 0.58 mg/kg naphthalene in SB-4 at 18 fbg
- 0.86 mg/kg 2-methylnaphthalene (the only PAH detected) in SB-4 at 18 fbg
- 0.00307 mg/kg aldrin (pesticide) in SB-4 at 5 fbg
- 0.00210 mg/kg heptachlor (pesticide) in SB-4 at 5 fbg
- 0.00746 mg/kg delta-benzene hexachloride (pesticide) in SB-5 at 16 fbg
- No PCBs were detected above the laboratory reporting limit of 20 mg/kg

The residual PAH concentration detected was in soil greater than 10 fbg beneath the groundwater table; there is no LTCP criteria for PAHs greater than 10 fbg. The pesticides are unlikely related to site operations and may be due to previous site use.

The extent of hydrocarbons in soil southwest and southeast of the USTs (upgradient of wells MW-2 and MW-7), and the vertical extent of hydrocarbons in soil are not defined near the two source areas. Additional assessment is proposed in the work plan below.

3.5 Petroleum Hydrocarbon Distribution in Groundwater

Groundwater monitoring and sampling has been ongoing since 1998. Currently, wells MW-2, MW-3, and MW-7 through MW-10 are sampled semi-annually and all other wells are sampled quarterly. Blaine-Tech Services (Blaine Tech) conducted the most recent groundwater sampling event in March and

June 2014. Grab-groundwater analytical data are presented in Table 3 and cumulative monitoring and sampling data are presented in Table 4. Monitoring well construction details are included in Table 5.

The current extent of dissolved-phase hydrocarbons and hydrocarbon concentration trends are presented below. First and Second Quarter 2014 groundwater analytical results for TPHg, benzene, toluene, ethylbenzene, xylenes, and MTBE are summarized in Table 3.1 below.

TABLE 3.1 – HYDROCARBON CONCENTRATIONS IN GROUNDWATER						
(March 31, 2014 and June 30, 2014)						
	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>
<i>Concentrations in micrograms per liter (µg/L)</i>						
ESL Table F-1a Drinking Groundwater ESLs	100	1	40	30	20	5
MW-1 ^b	90,000	12,000	7,400	2,800	14,000	21
MW-2 ^b	8,200	2	0.6 J	59	9	1
MW-3 ^a	13,000	1,100	50	350	240	170
MW-4 ^b	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-5 ^b	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-6 ^b	1,400	100	0.6 J	2	<0.5	14
MW-7 ^b	28,000	6,300	290	790	3,000	53
MW-8 ^b	370	2	<0.5	<0.5	<0.5	3
MW-9 ^a	<50	<0.5	<0.5	<0.5	<0.5	4
MW-10 ^a	<50	<0.5	<0.5	<0.5	<0.5	0.8 J
bold = concentrations detected at or above ESLs ESLs = Environmental Screening Levels from <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater</i> prepared by the California Regional Water Quality Control Board – San Francisco Bay Region, Interim Final November 2007, revised December 2013 a = sampled March 31, 2014 b = sampled June 30, 2014 J = Estimated Value (the result is ≥the Method Detection Limit and < the Limit of Quantitation)						

The residual dissolved-phase hydrocarbon concentration is centered around well MW-1 near the former dispensers that appear to be the primary source area. The distribution of the dissolved-phase hydrocarbons is illustrated on Figures 15 through 17. The extent of hydrocarbons in groundwater southwest and southeast (upgradient of wells MW-2 and MW-7)) of the site is not defined.

In the April 7, 2014 letter, ACEH was concerned about a vertical gradient and asked whether well MW-4 is an appropriate downgradient well especially with respect to potential preferential pathways. CRA reviewed Sanborn maps and aerial photos that indicate by 1959, Bancroft Avenue was reconstructed (extended to the east). The location of MW-4 was installed in 1999 and was located where Bancroft Avenue was extended, which was most likely overexcavated and engineered fill placed for the new road

and sidewalk. However, upon review of the boring logs, the soils logged in MW-4 are consistent with soils logged elsewhere across the site, and there is no distinction between fill or native soil in well MW-4. The dissolved-phase hydrocarbon data does not appear to reflect a manmade or natural preferential pathway. The data is considered valid and represents cross-gradient conditions. To confirm this and specifically address ACEH concerns, CRA will complete a preferential pathway study that will address this and other ACEH concerns with respect to potential conduits.

3.6 Hydrocarbon Concentration Trends

TPHg, benzene, and MTBE concentration trends in groundwater for MW-1, MW-2, MW-3, and MW-6 through MW-9 are illustrated in graphs presented as Appendix F.

Hydrocarbon concentrations in all wells including source area (former dispensers) wells, MW-1 and MW-7 indicate a stable or decreasing trend, with some concentration fluctuations caused by changes in water table. In all wells, current concentrations are below historic high concentrations. Because this is primarily a release of leaded gasoline from several decades ago, it is reasonable to presume that the existing plume has had sufficient time to stabilize and that any concentration fluctuations are due to water table changes.

3.7 Petroleum Hydrocarbon Distribution in Soil Vapor

Soil vapor samples were collected between 2005 and 2008 from soil vapor probes VP-1 through VP-4, screened between 5 to 6.5 fbg, 7.5 to 9 fbg, and 10 to 11.5 fbg. Vapor probes VP-2 and VP-3 are located at the northern property boundary adjacent to the residential homes and VP-1 is located approximately 20 fbg from the northern property boundary. The highest hydrocarbon concentrations detected were in VP-4 at all depths located approximately 6 feet northwest of a source area (former dispensers) well MW-1. The table below presents the maximum concentrations detected at each vapor probe location at a depth of 5 feet where the LTCP direct measurement of soil gas concentrations applies. Cumulative soil vapor sampling data is presented in Table 6.

TABLE 3.2 – MAXIMUM BENZENE AND ETHYLBENZENE CONCENTRATIONS IN SOIL VAPOR AT 5 FEET DEPTH		
	<i>Benzene</i>	<i>Ethylbenzene</i>
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
<i>LTCP – Soil Gas – Scenario 4, Oxygen <4% - Residential</i>	<85	<1,100
<i>LTCP – Soil Gas – Scenario 4, Oxygen <4% - Commercial</i>	<280	<3,600
<i>LTCP – Soil Gas – Scenario 4, Oxygen >4% - Residential</i>	85,000	1,100,000
<i>LTCP – Soil Gas – Scenario 4, Oxygen >4% - Commercial</i>	280,000	3,600,000
VP-1	4.5 (5/23/08; 1.4% oxygen)	<52 (7/18/05; 15% oxygen)
VP-2	4.5 (5/23/08; 20% oxygen)	<5.5 (5/23/08; 20% oxygen)
VP-3	220 (8/11/05; no oxygen reading collected)	1,100 (8/11/05; no oxygen reading collected)
VP-4	150 (8/11/05; no oxygen reading collected)	60 (8/11/05; no oxygen reading collected)

The oxygen concentration in all probes is typically above 4 percent during most sampling events with only one event at each location below 4 percent. Therefore, although we do not have oxygen readings for the two maximum benzene concentrations detected at VP-3 and VP-4 that could indicate a risk between the residential and commercial scenario if oxygen is <4 percent, it is likely that oxygen concentrations were above 4 percent and the values detected do not pose a risk above residential criteria. They are all below commercial criteria. Based on the preponderance of data collected at these locations, there is no risk above residential standards at any of the 5 foot deep sample locations.

Currently, there are no plans in the near future to change from an active service station (commercial) to residential land use. The site is paved at the surface and there is only one building onsite with a site worker. Below is a table presenting the maximum soil concentrations compared to LTCP direct contact

with soil and outdoor air exposure criteria for commercial land use (applicable to the site). The only potential exposure pathway for vapor intrusion that remains is to the residences to the northwest. Recommendations are presented below.

TABLE 3.4 – LTCP DIRECT CONTACT WITH SOIL AND OUTDOOR AIR EXPOSURE (MAXIMUM SOIL CONCENTRATION)				
<i>LTCP Criteria (Commercial)</i>	<i>Benzene</i>	<i>Ethylbenzene</i>	<i>Naphthalene</i>	<i>PAH</i>
<i>Direct Contact - 0 to 5 fbg</i>	8.2	89	45	0.68
<i>Outdoor Air Exposure - 0 to 10 fbg</i>	12	134	45	NA
<i>Utility Worker - 0 to 10 fbg</i>	14	45	NA	4.5
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
<i>Site Data: Direct Contact - 0 to 5 fbg</i>	4.2 P7@3 fbg 8/27/96	7.3 P6@4 fbg 8/27/96	<10	<10
<i>Site Data: Outdoor Air Exposure / Utility Worker - 0 to 10 fbg</i>	0.016 MW-7@10 fbg 7/3/00	0.001 VP-4@5 fbg 4/22/05	<10	<10
Notes: Naphthalene was not detected on 9/25/00 for borings SB-4 through SB-6 except at SB-4 @ 18 fbg below the groundwater table NA = not established or applicable per LTCP				

Benzene and ethylbenzene soil concentrations detected between 0 and 10 fbg do not exceed the LTCP criteria for direct contact, commercial outdoor air exposure and utility worker scenarios; therefore, there is no apparent risk to the onsite workers or utility workers. Naphthalene and PAHs were not detected above laboratory reporting limits. Concentrations from borings VP-1 through VP-3 adjacent to the residences are below residential criteria and the adjacent residences are not at risk. To confirm this, CRA proposes to collect one additional round of vapor samples from the shallow probe locations at 5 fbg consistent with the ACEH request and LTCP guidance.

3.8 Petroleum Hydrocarbon Source Remediation

Based on historical reports, in 1981 the fueling system was upgraded by replacing three USTs with three 10,000-gallon gasoline single-walled fiberglass USTs in the same UST pit, removing two dispensers and associated piping and adding five⁷ dispensers and associated piping (Figure 2). In addition, during site remodel, Chevron removed a portion of the station building containing a used-oil UST of unknown size. The exact location of the former used-oil UST is unknown. Historical site plans indicate the used-oil UST was located at the east side of the former station building which is currently beneath the canopy and between three dispenser islands. In 1981, no regulations existed that required soil or groundwater

⁷ Historical reports reference three dispensers, site plan from Touchstone Developments, *Product Piping Removal Soil Sampling Report*, dated May 28, 1997 shows five dispensers and the currently the station operates five dispensers.

sampling to document conditions associated with the fuel system or used oil tank. No information regarding total mass of soil removed during the site remodel was found.

In 1996, Gettler-Ryan Inc. (G-R) removed and replaced the product piping. A total of approximately 300 cubic yards of hydrocarbon-bearing soil was removed during product piping replacement.

In September 2007, a surfactant enhanced LNAPL extraction event was conducted to remove LNAPL from well MW-1. A total of 346 gallons of a 5 percent surfactant solution was gravity-fed into MW-1. Surfactant solution was also added to nearby well MW-7 but was not successful due to the small ¾-inch casing diameter. A total of approximately 7 gallons (1 casing volume) of the surfactant solution was gravity-fed into well MW-7. Following application, the surfactant solution was allowed to envelop and emulsify residual LNAPL in the application area smear zone for approximately 24 hours. Afterward approximately 1,200 gallons of groundwater, surfactant, and LNAPL were extracted using a vacuum extraction truck over 3 days (33 hours) and disposed of at a California licensed disposal facility. No LNAPL has been detected since October 2007.

3.9 Sensitive Receptors

A sensitive receptor survey was performed in July 1998 by G-R (Appendix G). No municipal or domestic wells were located within 0.5 miles of the station. The San Francisco Bay is approximately 2 miles west of the site. The nearest surface water is Arroyo Creek, located approximately 1,300 feet south of the site (upgradient). No preferential pathway study has been performed to date. CRA has requested records from Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) to complete an updated well survey and will complete a preferential pathway study.

Section 4.0 Conclusions/Data Gaps and Recommendations

4.1 Conclusions and Data Gaps

The following conclusions can be made based on SCM presented above:

- The highest TPHg concentrations detected in soil have been between 15 and 24 fbg which is beneath the groundwater table with a maximum of 1,400 mg/kg at 24 fbg at SB-5 located 20 feet downgradient of the USTs.
- The horizontal extent of hydrocarbons in soil is not delineated southwest and southeast of the USTs (upgradient wells MW-2 and MW-7). Additional assessment is needed and is proposed below. This will also address concerns expressed by the ACEH about potential preferential pathways in this area.
- The vertical extent of hydrocarbons is not defined in the source areas. Additional assessment is proposed below.

- Benzene soil concentrations do not exceed LTCP residential criteria for soil between 0 and 10 fbg along the northwest property boundary adjacent to the closest residence. Benzene soil concentrations across the site do not exceed LTCP commercial/industrial criteria for soil between 0 and 10 fbg.
- No LNAPL has been detected since October 2007, indicating LNAPL has been removed to the extent practicable.
- Soil vapor concentrations do not exceed the Scenario 4 LTCP criteria for residential and commercial land use along the property line between the site and the adjacent residences. There appears to be no potential risk to the adjacent residences. However, since the methodologies for soil vapor sampling have changed since 2008, CRA proposes one more round of sampling in the shallow (5 fbg) locations to verify that there is no vapor risk to the residences using the most recent California Department of Toxic Substances Control (DTSC) *Advisory-Active Soil Gas Investigations* dated April 2012.
- Benzene and ethylbenzene (no naphthalene or PAHs were detected) soil concentrations detected between 0 and 10 fbg do not exceed the LTCP criteria for direct contact, outdoor air exposure and utility worker scenarios; therefore, there is no apparent risk to the onsite workers, utility workers, and the adjacent residences.
- The well survey (sensitive receptor) completed in 1998 did not identify any domestic wells within 0.5 mile radius of the site. ACEH has requested an updated survey and CRA proposes one below.
- A preferential pathway/conduit study has not been completed and one is proposed below.

4.2 Recommendations

Based on the above conclusions and data gaps, the following work scope is recommended and the scope of work is presented in the work plan in Section 5:

- Collect soil data near the UST source area near boring SB-5 to vertically delineate greater than 24 fbg where 1,400 mg/kg of TPHg was detected in 2000. This will also address ACEH's concern regarding a broken pipe near the northwest corner of the USTs identified by ACEH via facsimile in 1996.
- Collect soil and groundwater data southwest and southeast of the USTs (upgradient of wells MW-2 and MW-7).
- Resample the soil shallow (5 fbg) vapor probes closest to the residences.
- Complete an updated sensitive receptor survey to a 1,000 foot radius beyond the site property lines using ACPWA and DWR data and identifying other sensitive receptors such as schools, daycares, nursing homes, hospitals, etc.
- Complete a preferential pathway survey to evaluate potential conduits for the migration of dissolved hydrocarbons.

Section 5.0 Work Plan for Additional Subsurface Investigation

To investigate the data gaps identified in the above SCM, CRA proposes advancing at least 5 borings onsite (Figure 18) to approximately 30 fbg or greater if needed for vertical hydrocarbon distribution delineation based on field instruments. We also will resample existing vapor probes VP-1 through VP-4 at 5 fbg. The scope of work for the proposed investigation is discussed below.

5.1 Permits and Inspection

CRA will obtain the necessary permits and coordinate inspections with ACPW.

5.2 Site Specific Health and Safety Plan

CRA will prepare a site-specific health and safety plan to protect site workers. The plan will be reviewed and signed by all site workers and visitors and remain onsite during all field activities.

5.3 Utility Location and Clearance

CRA will contact Underground Service Alert (USA) to coordinate location of subsurface utilities no less than 48 hours prior to the start of field activities. CRA will subcontract a licensed geophysicist to confirm the locations of underground utilities using various geophysical equipment. In accordance with Chevron and CRA safety standards, an air knife-assisted vacuum rig or hand auger will be utilized to clear the locations at a depth of 8 fbg.

5.4 Sensitive Receptor and Preferential Pathway Survey

To complete the sensitive receptor survey CRA will complete well survey at least a 1,000 foot radius beyond the site property lines using ACPWA and DWR data and identify nearby schools, daycares, nursing homes, hospitals, etc. To complete a preferential pathway survey to evaluate potential conduits for the migration of dissolved hydrocarbons, CRA will subcontract a licensed geophysical surveyor and review public utility maps (when available) to assess the location, size and depth of all subsurface utilities in the vicinity.

5.5 Soil Sampling

Five soil borings are proposed to complete data gaps or further investigate source areas (Figure 18):

- 1 soil boring proposed near SB-5 (former UST source area)
- 1 soil boring near well MW-1 (former dispenser source area)

- 1 soil boring near well MW-7 (former dispenser source area)
- 2 soil borings upgradient of wells MW-2 and MW-7

Soil borings will be advanced using a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers or direct-push technology with a 3-inch diameter sampler to approximately 30 fbg. CRA will collect soil samples at 3 fbg and at 5-foot intervals after the 5 fbg soil sample to 30 fbg or deeper if needed based on field instruments and observations. Soils will be logged using the ASTM D2488-06 Unified Soil Classification System. Soil samples will be collected from each boring using either a split-spoon sampler lined with clean brass/steel sleeves at the depth interval selected or using a direct-push sampler, lined with polyethylene sampling tubes. Soil samples will be screened using a photo-ionization detector (PID) and all PID measurements will be recorded on the boring log. Samples will be sealed, labeled, logged on a chain-of-custody, placed on ice, and transported to a Chevron and California State-approved laboratory for analysis. After sample collection, the boreholes will be tremie-grouted with neat Portland cement and completed to surface to match existing grade. CRA's standard procedures for soil boring advancement are presented in Appendix H.

5.6 Groundwater Sampling

CRA will collect grab-groundwater samples from the borings upgradient of MW-2 and MW-7 at first encountered groundwater. Groundwater samples will be collected using a micro-bailer or disposable bailer, and the samples will be transferred from the bailer to laboratory-supplied sample containers. Samples will be labeled, logged on a chain-of-custody form, preserved on ice, and transported to a Chevron and California State-approved laboratory for analysis.

5.7 Soil Vapor Sampling

CRA will evaluate the integrity of existing multi-level vapor probes VP-1 through VP-4 and will sample them using the current DTSC Vapor Intrusion Guidance. Soil gas samples will be collected from the 5-6.5 fbg probes. If the integrity of the vapor probes has been compromised, CRA will submit a work plan addendum to replace them. CRA's standard procedures for soil vapor installation and sampling are presented in Appendix H.

5.8 Chemical Analysis

Select soil and groundwater samples will be analyzed for the following:

- TPHg by EPA Method 8015M
- Benzene, toluene, ethylbenzene, and xylene (BTEX) and MTBE by EPA Method 8260B
- 16 priority pollutant Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 SIM: naphthalene, acenaphthene, acenaphthylene, anthracene, phenanthrene, fluorine, chrysene,

fluoranthene, pyrene, benzo(b)fluoranthene, benzo(a)pyrene, benzo(k)fluoranthene, benzo(a)anthracene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene

- A fingerprint analysis may be collected, if needed

Soil gas samples will be analyzed for the following:

- TPHg, BTEX, MTBE, and naphthalene by EPA Method TO-15
- Oxygen (O₂), carbon dioxide (CO₂), nitrogen (N₂), methane (CH₄), and helium by ASTM D-1946 (GC/TCD)
- Air phase hydrocarbon (APH) fractions (Sp) aromatics C8-C12 by modified TO-15 GC/MS Full Scan
- APH fractions (Sp) aliphatics C5-C12 by modified TO-15 GC/MS Full Scan

5.9 Waste Disposal

Soil cuttings and rinsate water generated will be placed in DOT approved drums, labeled appropriately, and temporarily stored onsite. The waste will be transported by licensed waste haulers to a Chevron-approved California licensed disposal facility following receipt of the analytical profile.

5.10 Reporting

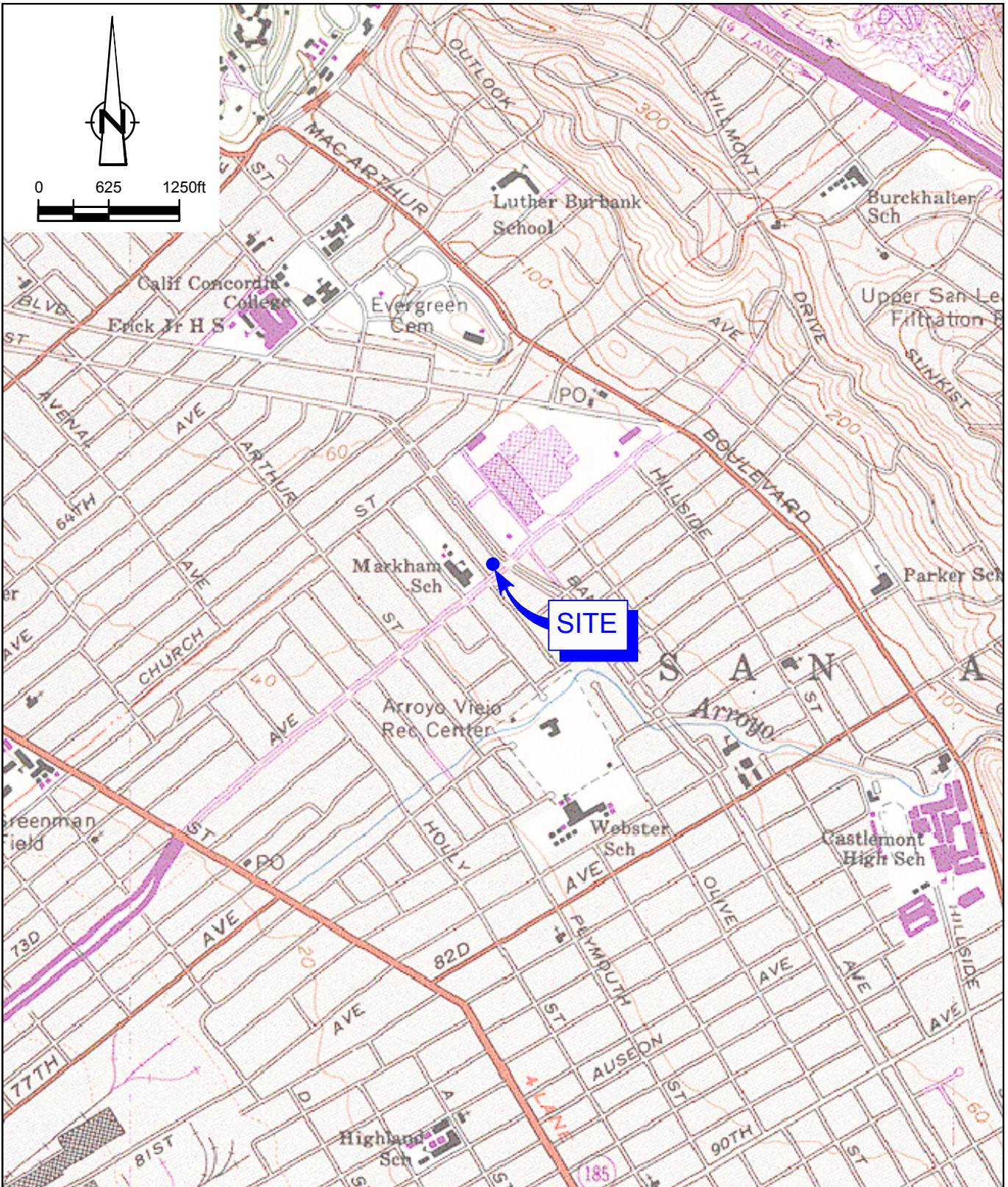
Upon completion of field activities and review of the analytical results, CRA will prepare a report incorporating all available data that, at a minimum, will contain:

- Description of the drilling and sampling
- Soil boring logs
- Tabulated soil, grab-groundwater, and soil gas analytical results
- Analytical reports and chain-of-custody forms
- Waste disposal details
- An evaluation of the extent of hydrocarbon in the subsurface
- Conclusions and recommendations based on site conditions with respect to LTCP

Section 6.0 Closing

CRA will proceed with the proposed scope of work upon receipt of written approval from ACEH. CRA will then obtain all required drilling permits and schedule the subcontractors at their earliest availability.

Figures



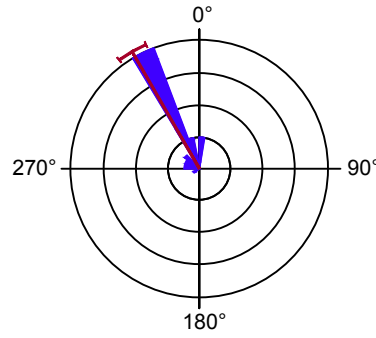
SOURCE: TOPO! MAPS.

Figure 1
 VICINITY MAP
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California



LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

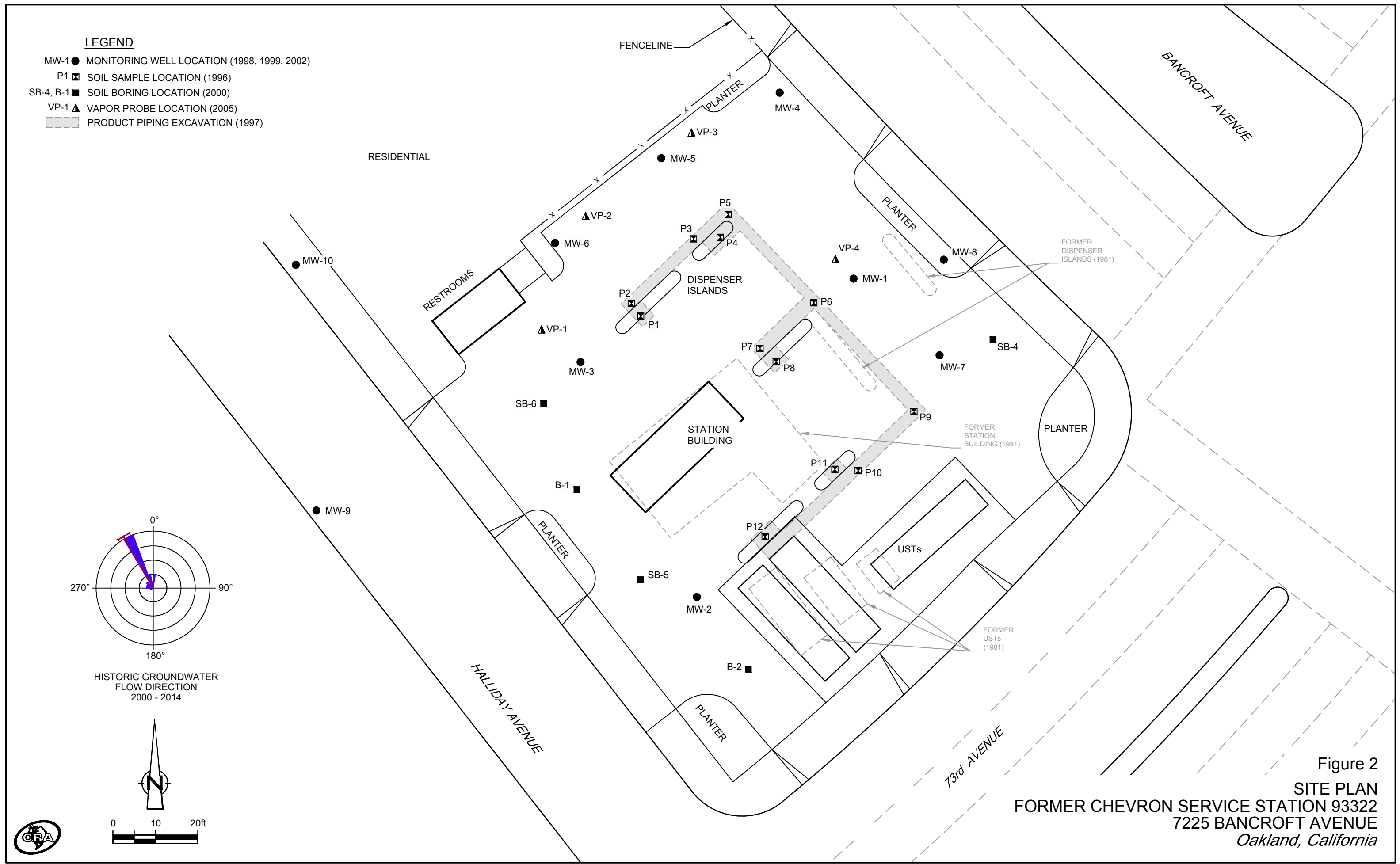
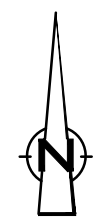
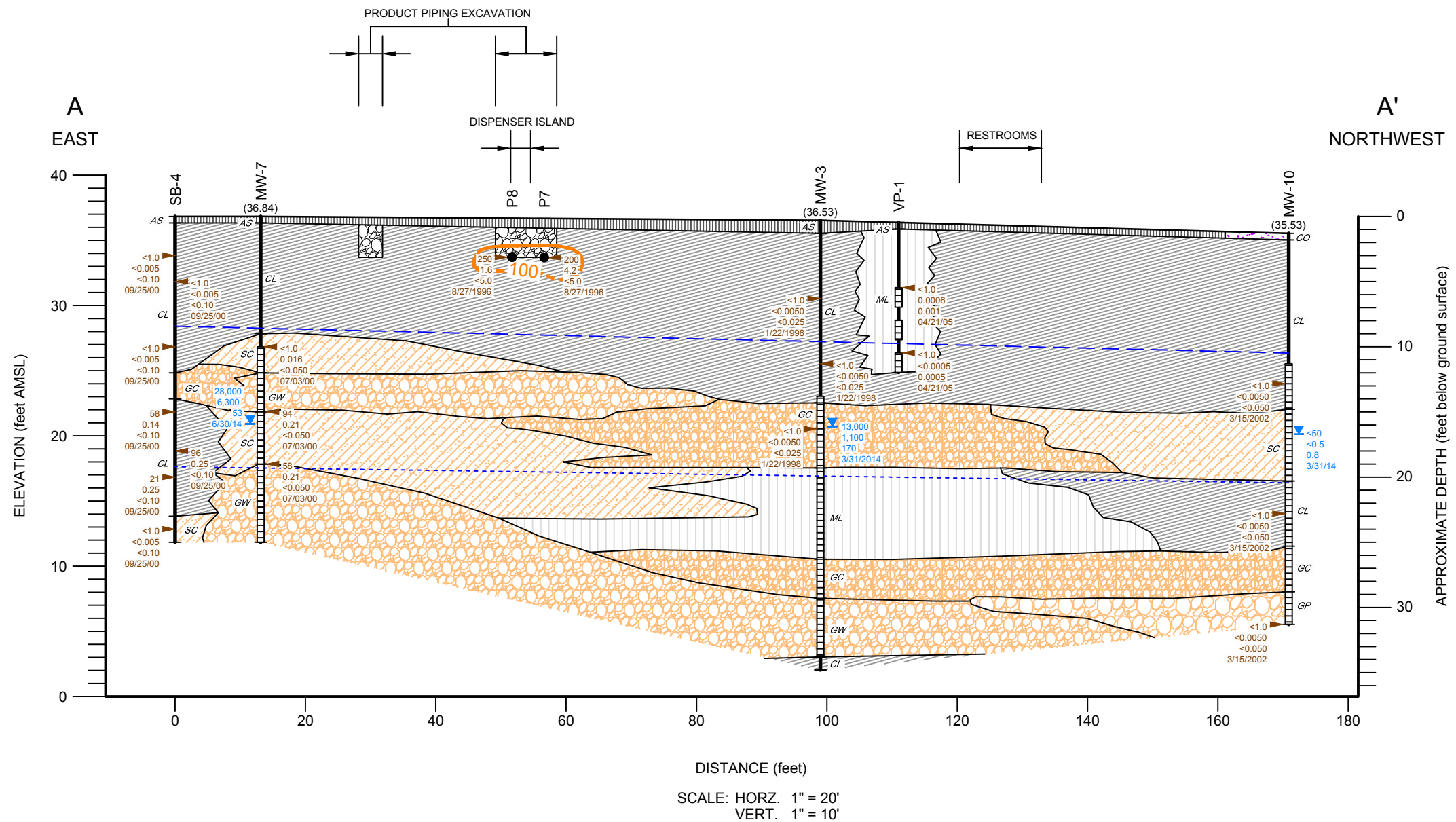


Figure 2
SITE PLAN
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California



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

LEGEND

- WELL DESIGNATION
- TOP OF CASING ELEVATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ APPROXIMATE SOIL SAMPLE LOCATION
- ▲ HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- ▼ STATIC GROUNDWATER AND GROUNDWATER SAMPLE LOCATION (DATE NOTED) IN ft BTWC
- ▼ HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- AS - ASPHALT
- CO - CONCRETE
- FILL
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- GW - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- GP - POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- HIGHEST GROUNDWATER ELEVATION (MSL)
- LOWEST GROUNDWATER ELEVATION (MSL)
- 100— TPHg ISOCONCENTRATION LINE
- APPROXIMATE EXCAVATION SOIL SAMPLE LOCATION

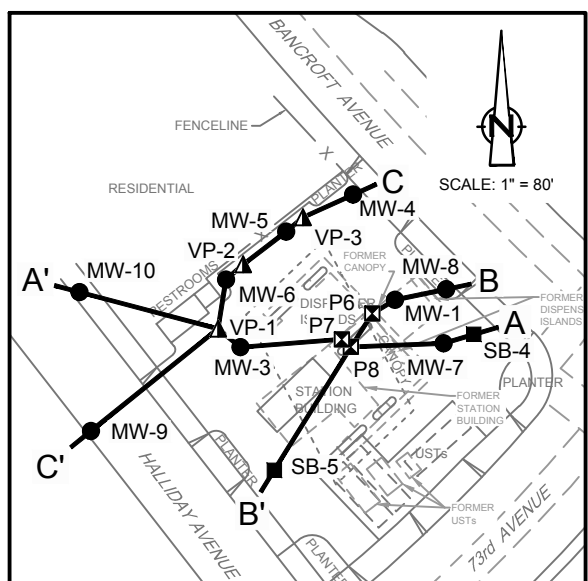
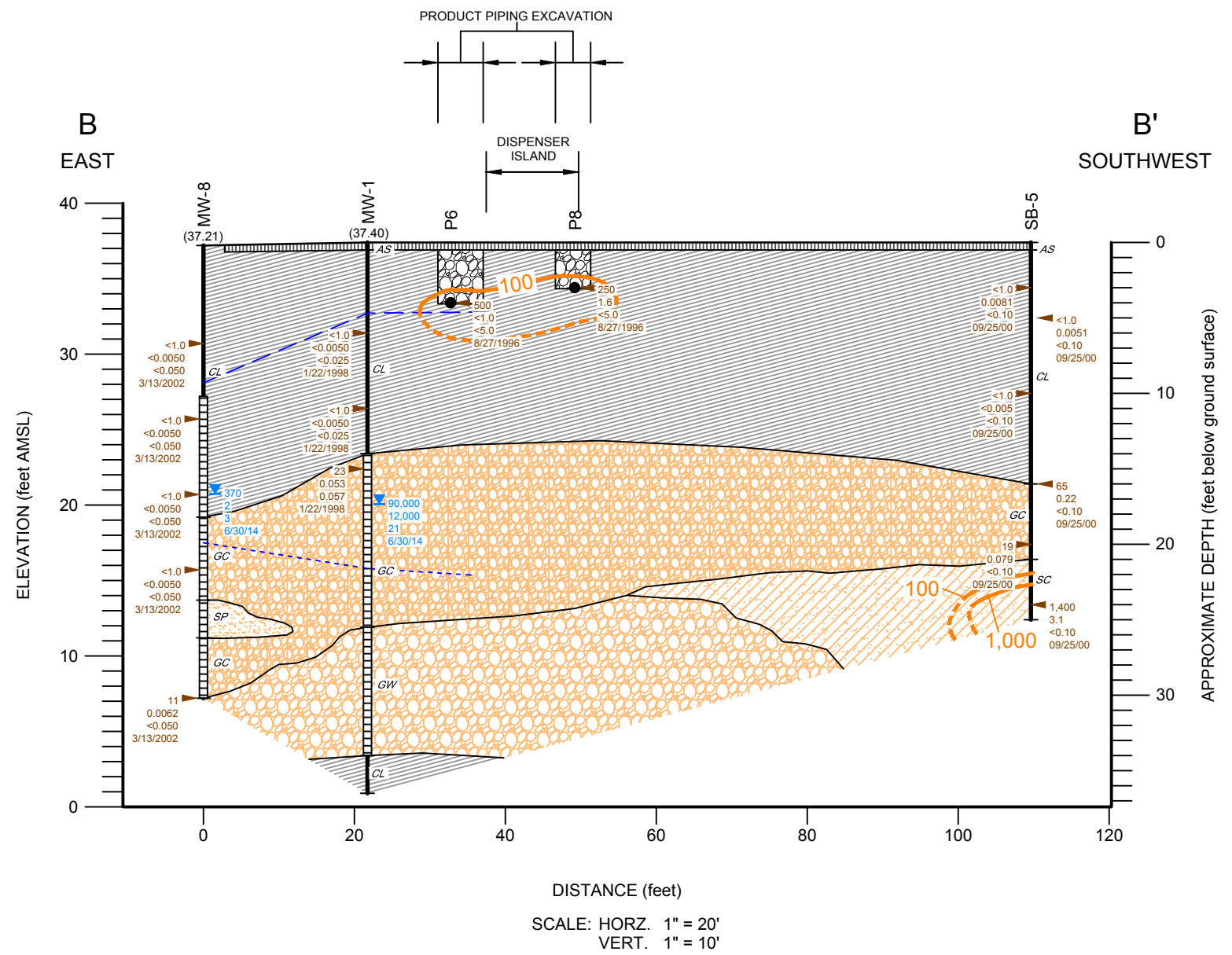


Figure 3
GEOLOGIC CROSS SECTION A-A'
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California



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

LEGEND

- WELL DESIGNATION
- TOP OF CASING ELEVATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ APPROXIMATE SOIL SAMPLE LOCATION
- ▲ HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- ▼ STATIC GROUNDWATER AND GROUNDWATER SAMPLE LOCATION (DATE NOTED) IN ft BTOC
- ▼ HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- AS - ASPHALT
- FILL
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
- GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- GW - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- HIGHEST GROUNDWATER ELEVATION (MSL)
- LOWEST GROUNDWATER ELEVATION (MSL)
- 100— TPHg ISOCONCENTRATION LINE
- APPROXIMATE EXCAVATION SOIL SAMPLE LOCATION

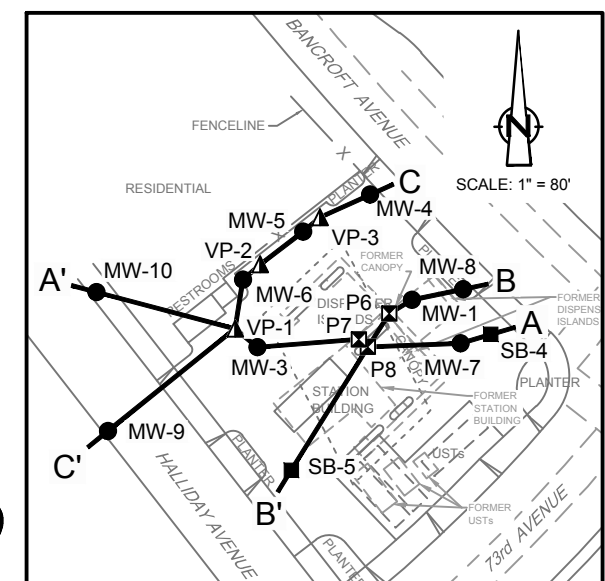
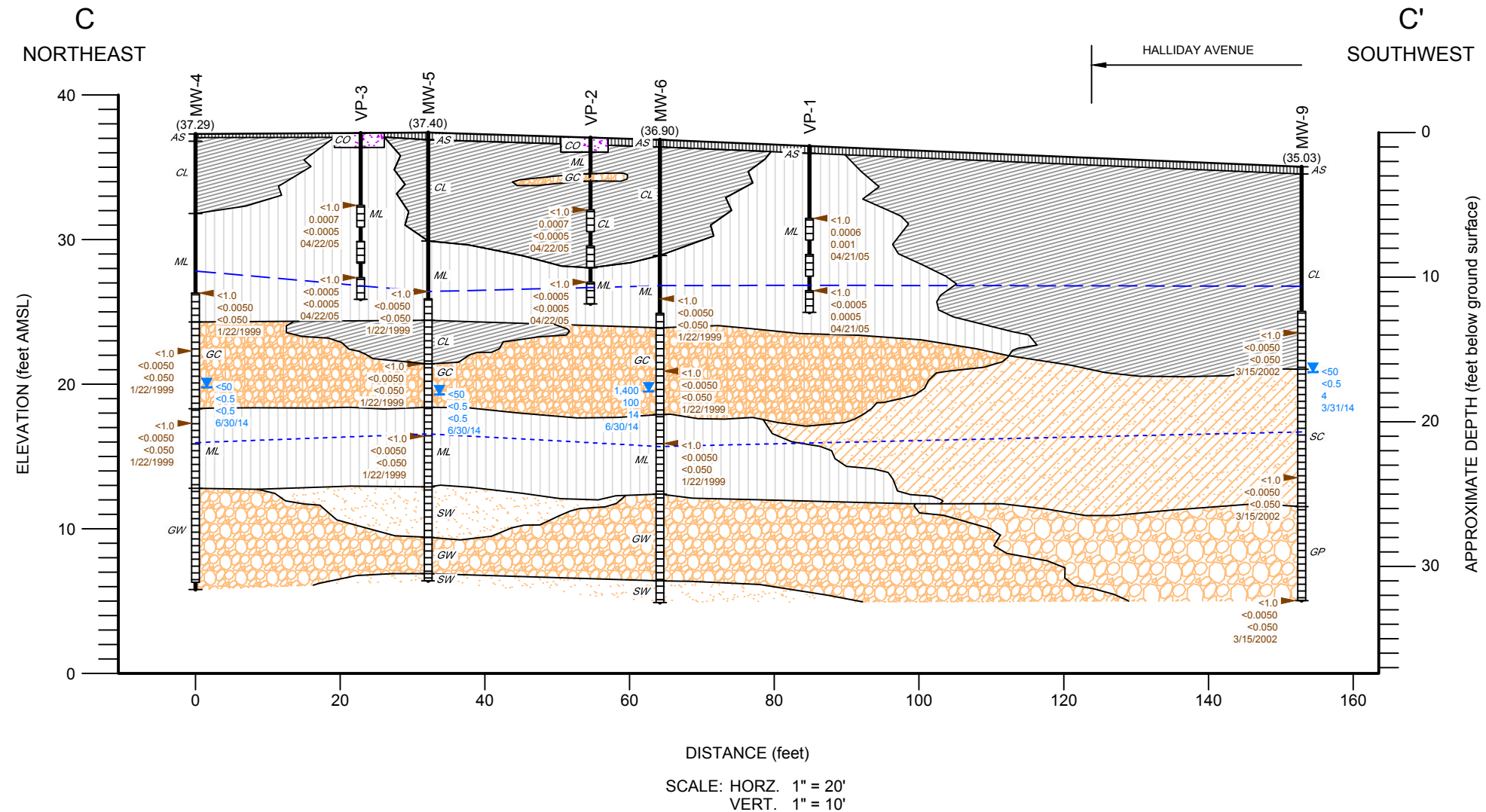
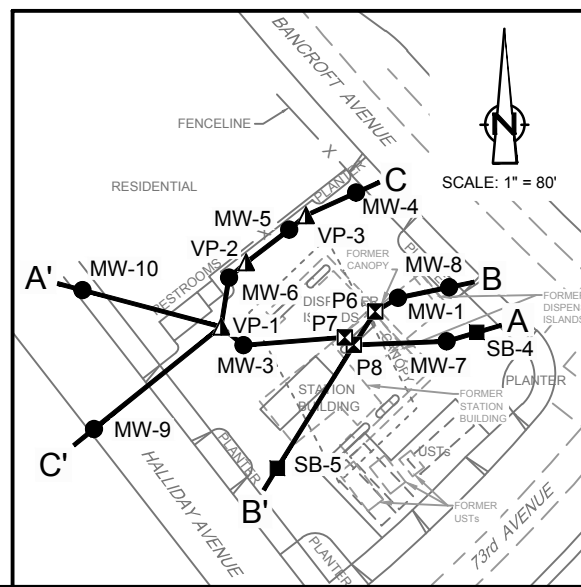


Figure 4
GEOLOGIC CROSS SECTION B-B'
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California



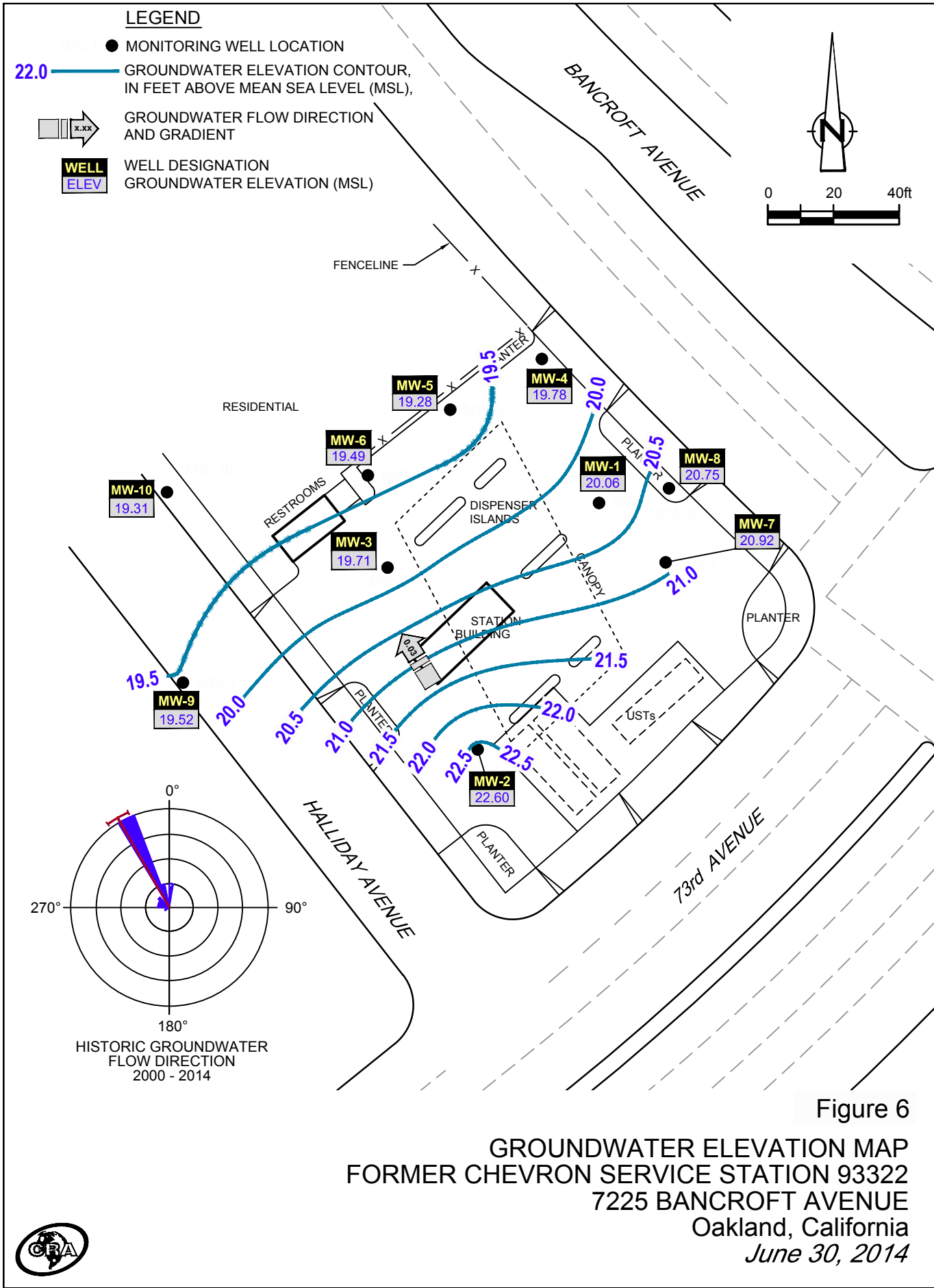
DISTANCE (feet)
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 10'



LEGEND

- WELL DESIGNATION
- TOP OF CASING ELEVATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ APPROXIMATE SOIL SAMPLE LOCATION
- ▲ HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- ▼ STATIC GROUNDWATER AND GROUNDWATER SAMPLE LOCATION (DATE NOTED) IN ft BTWC
- ▼ HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- AS - ASPHALT
- CO - CONCRETE
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- SW - WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES
- GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- GW - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- GP - POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
- — HIGHEST GROUNDWATER ELEVATION (MSL)
- — LOWEST GROUNDWATER ELEVATION (MSL)

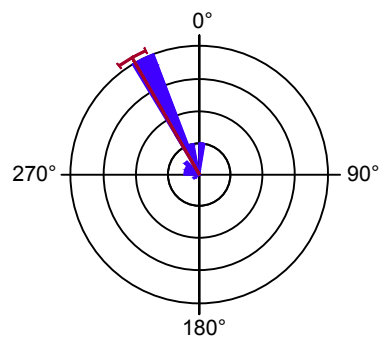
Figure 5
GEOLOGIC CROSS SECTION C-C'
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California



LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X
- 100 ——— TPHg ISOCONCENTRATION CONTOUR LINE IN mg/kg, DASHED WHERE INFERRED

P-2	WELL ID
<1.0	TPHg CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

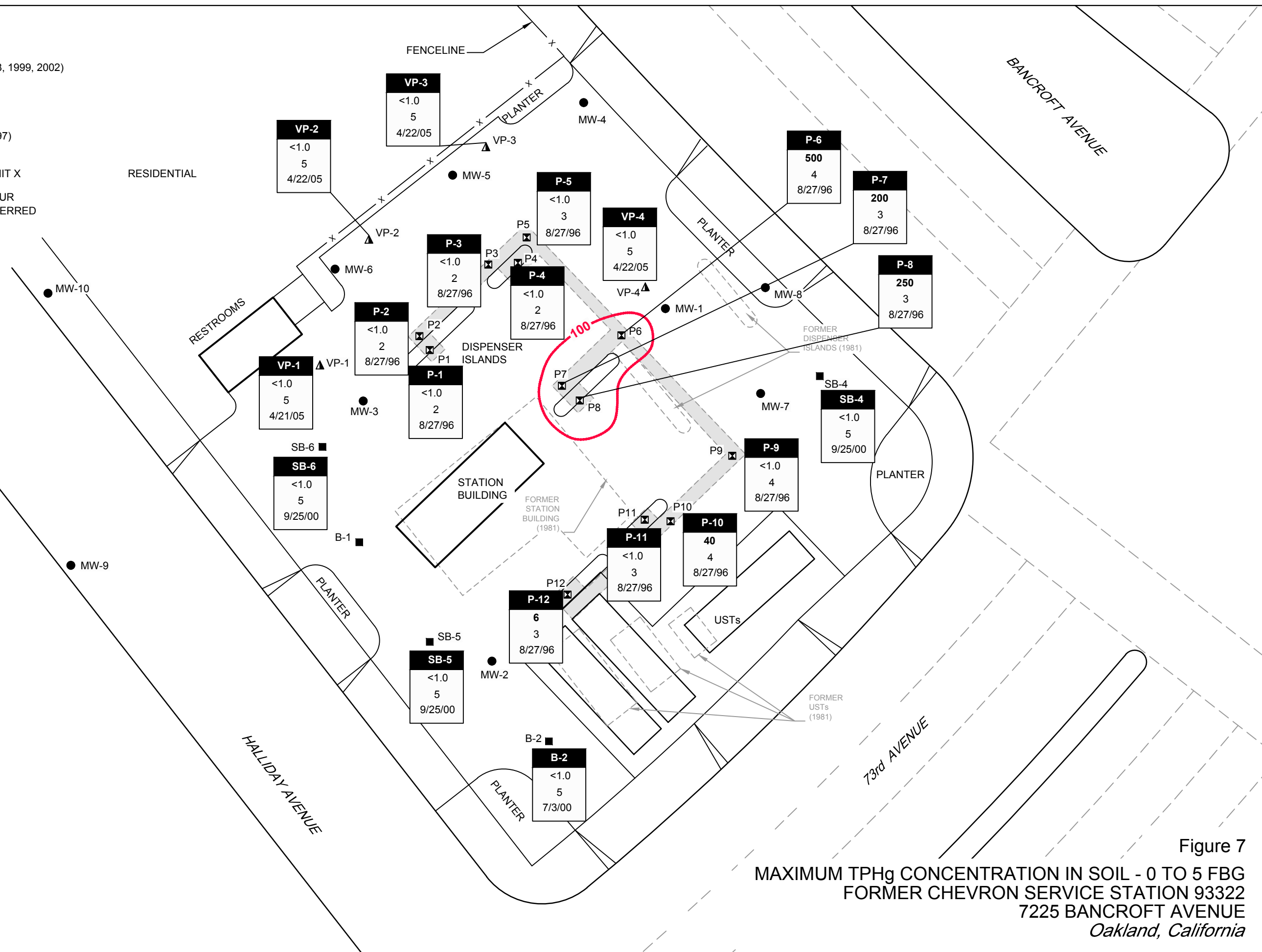
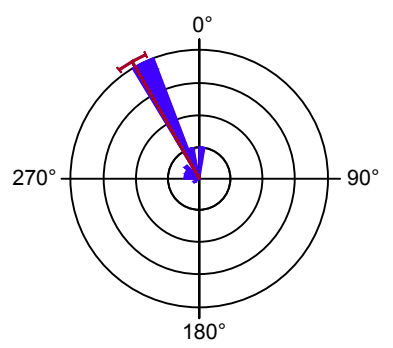


Figure 7
 MAXIMUM TPHg CONCENTRATION IN SOIL - 0 TO 5 FBG
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X

P-2	WELL ID
<1.0	TPHg CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

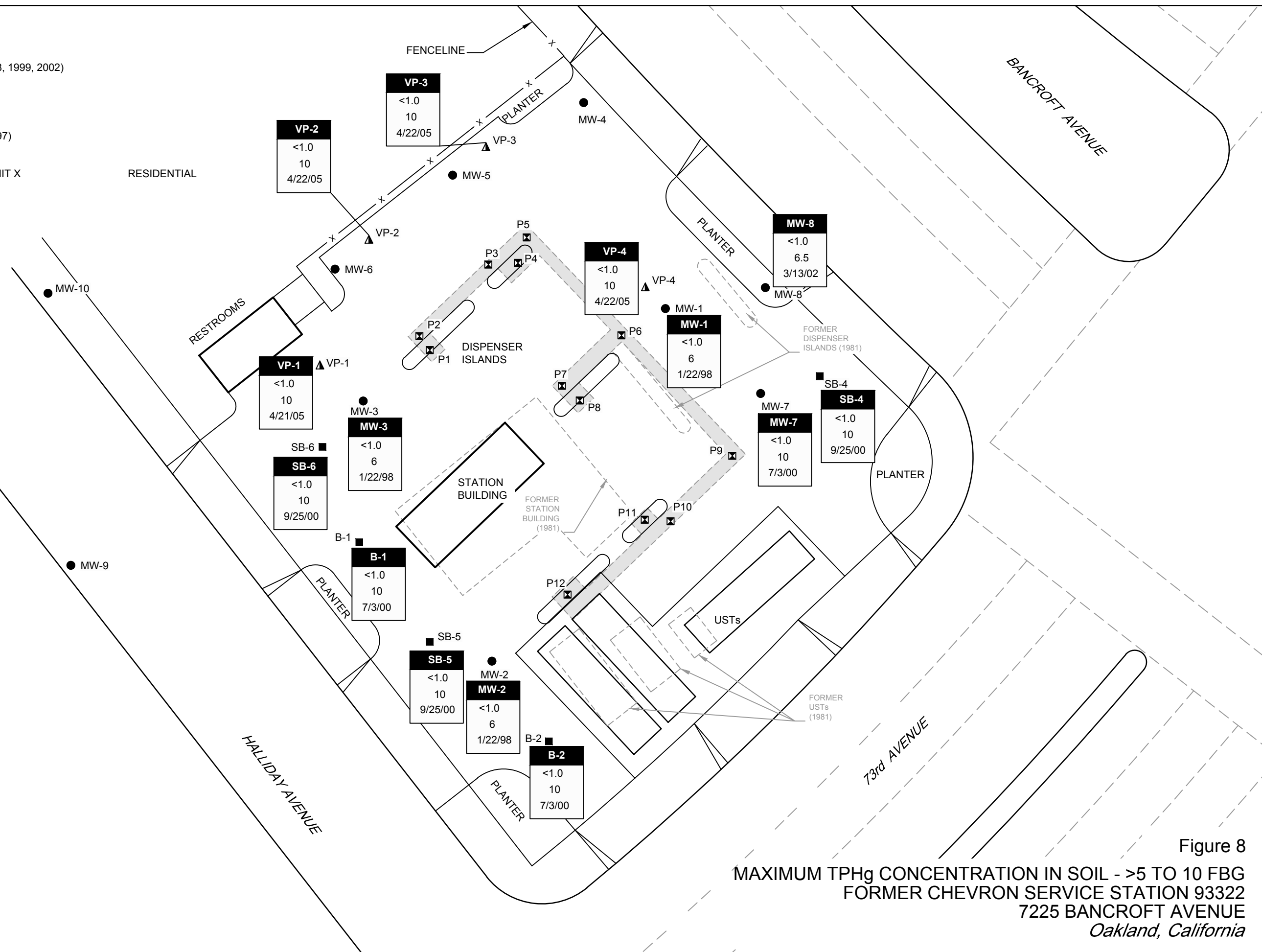
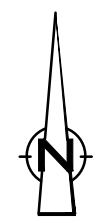
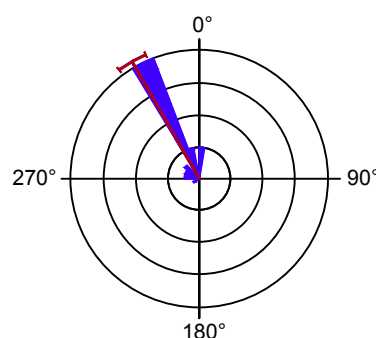


Figure 8
MAXIMUM TPHg CONCENTRATION IN SOIL - >5 TO 10 FBG
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X

P-2	WELL ID
<1.0	TPHg CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

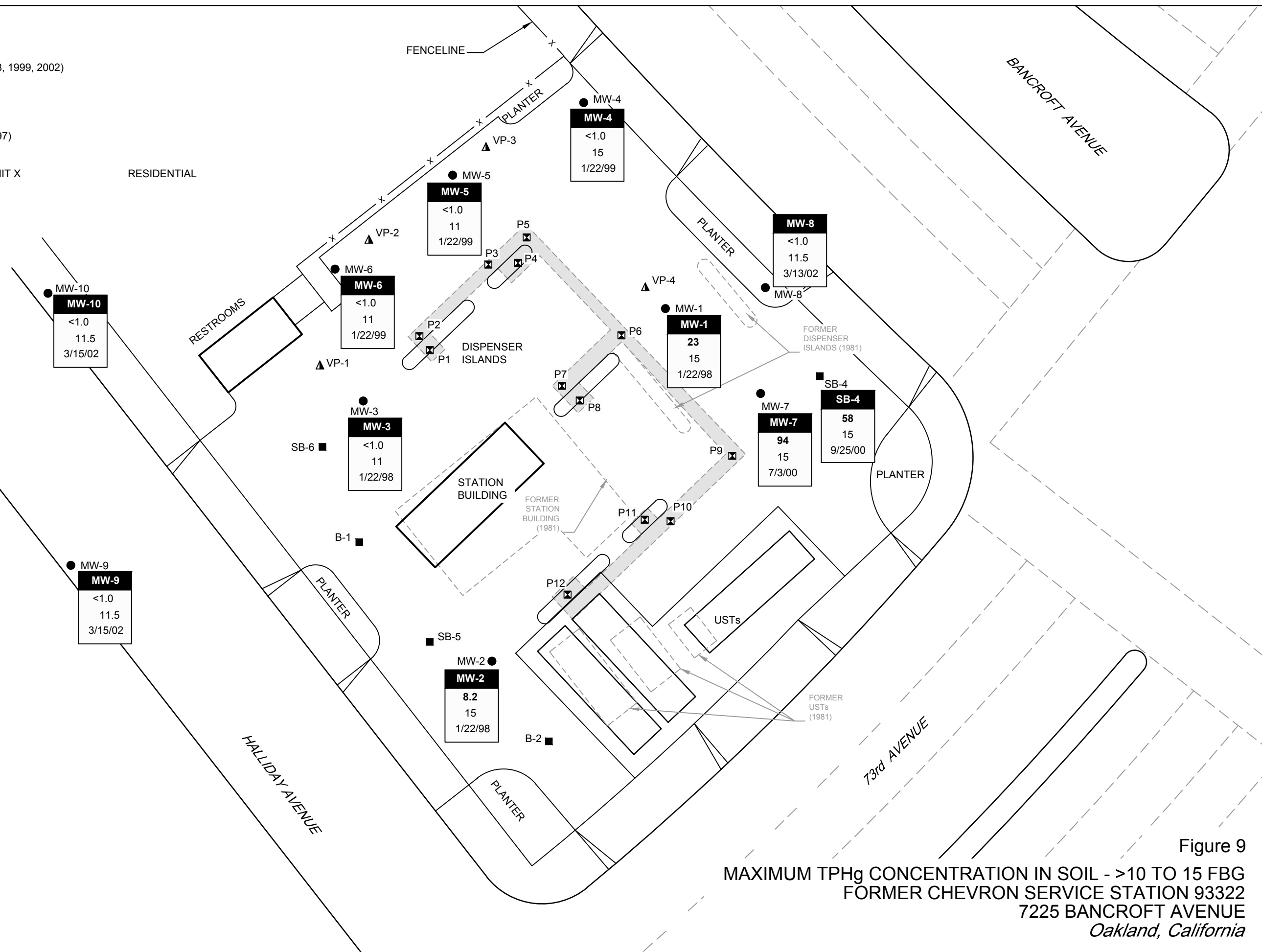
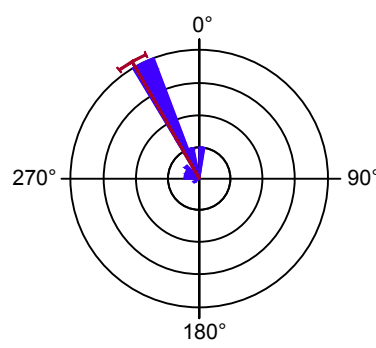


Figure 9
 MAXIMUM TPHg CONCENTRATION IN SOIL - >10 TO 15 FBG
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X
- 100 ——— TPHg ISOCONCENTRATION CONTOUR LINE IN mg/kg, DASHED WHERE INFERRED

P-2	WELL ID
<1.0	TPHg CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

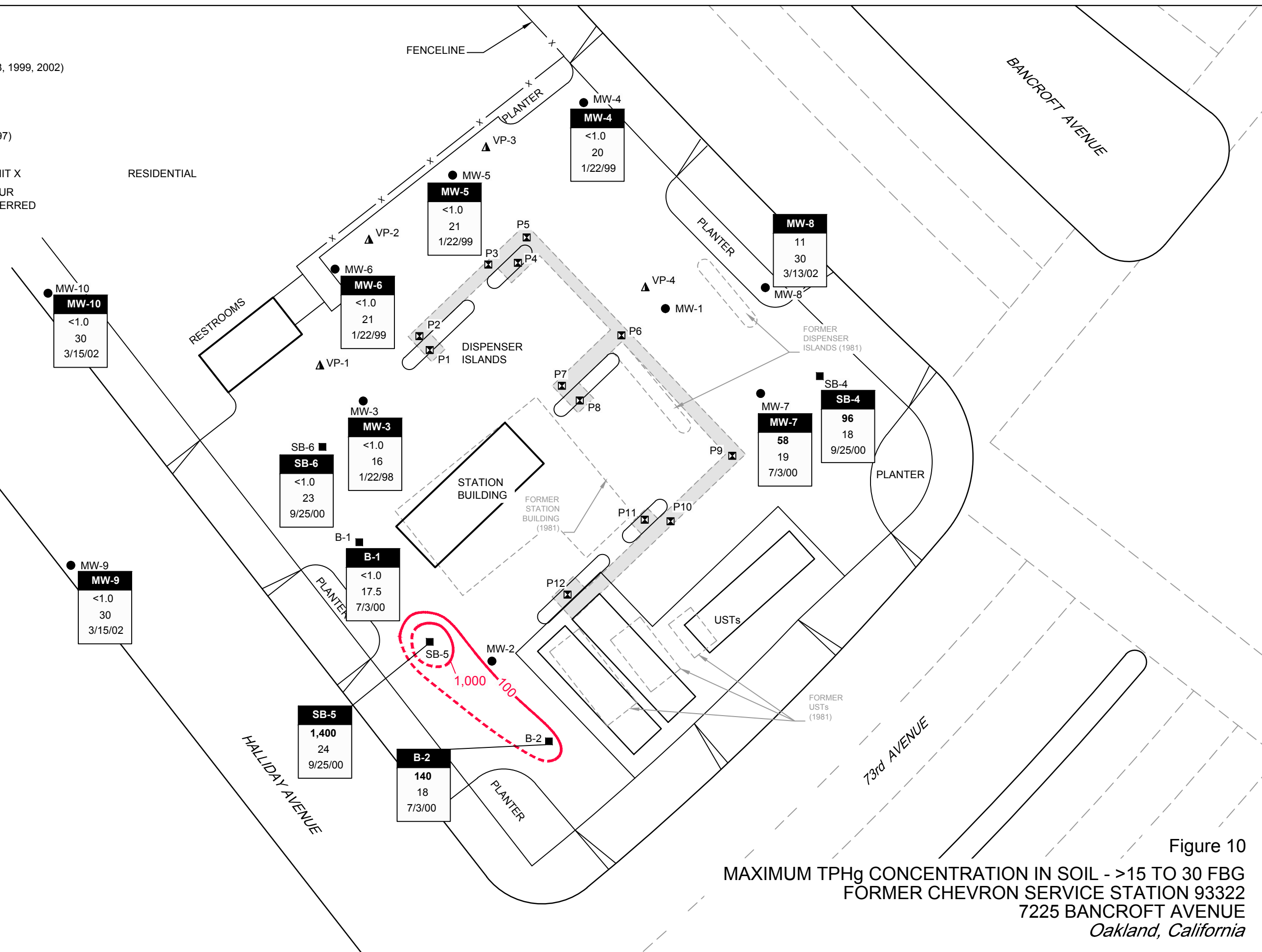
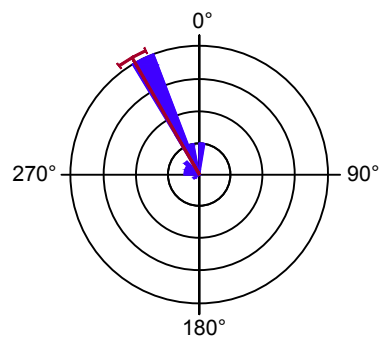


Figure 10
 MAXIMUM TPHg CONCENTRATION IN SOIL - >15 TO 30 FBG
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X
- 1.0 BENZENE ISOCONCENTRATION CONTOUR LINE IN mg/kg, DASHED WHERE INFERRED

P-2	WELL ID
<1.0	BENZENE CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

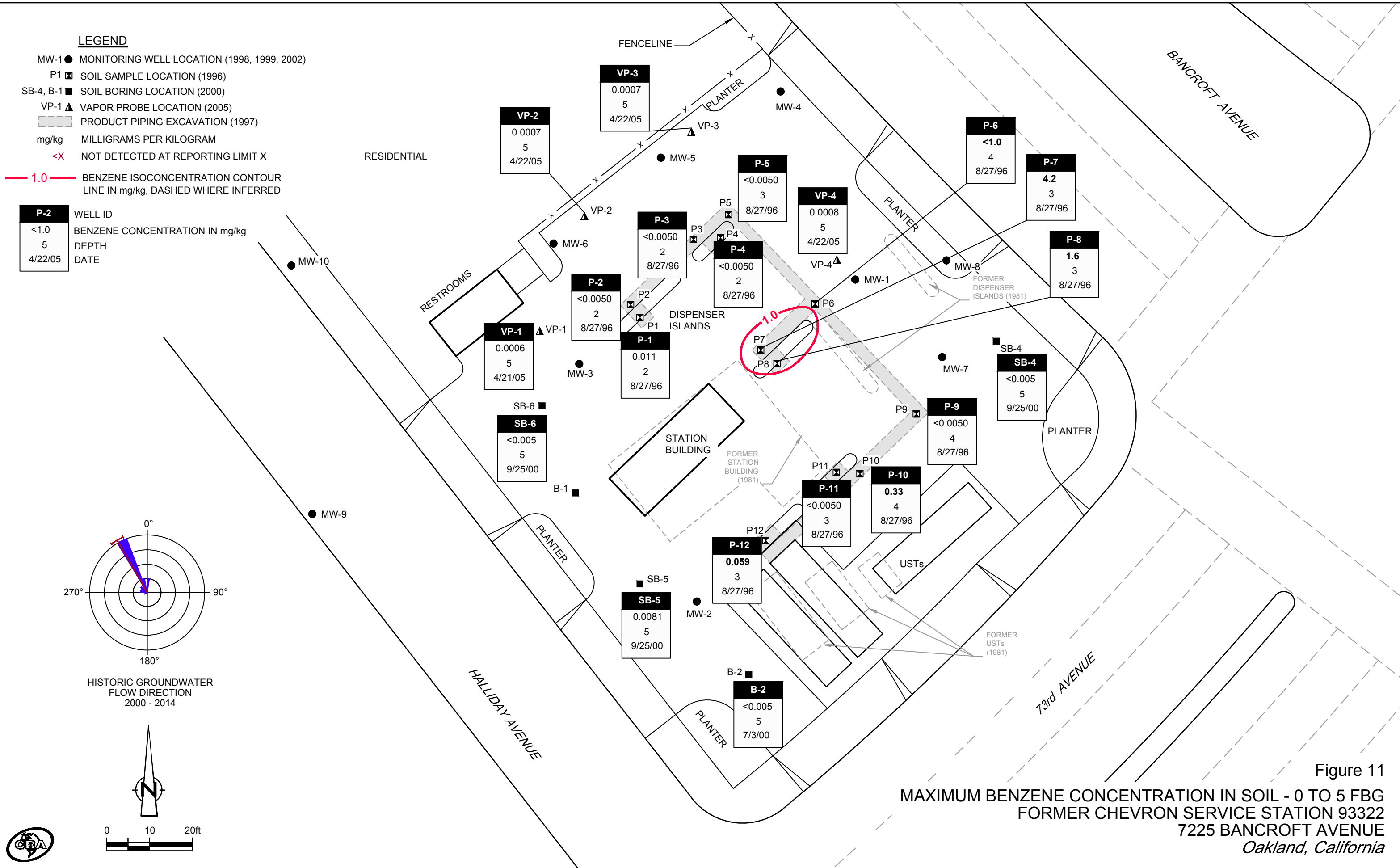
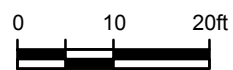
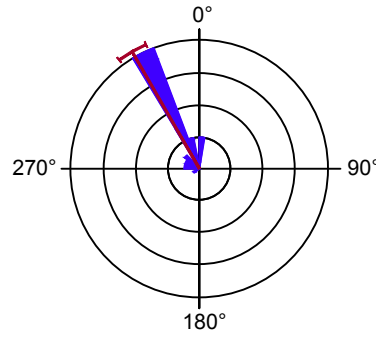


Figure 11
MAXIMUM BENZENE CONCENTRATION IN SOIL - 0 TO 5 FBG
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X

P-2	WELL ID
<1.0	BENZENE CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

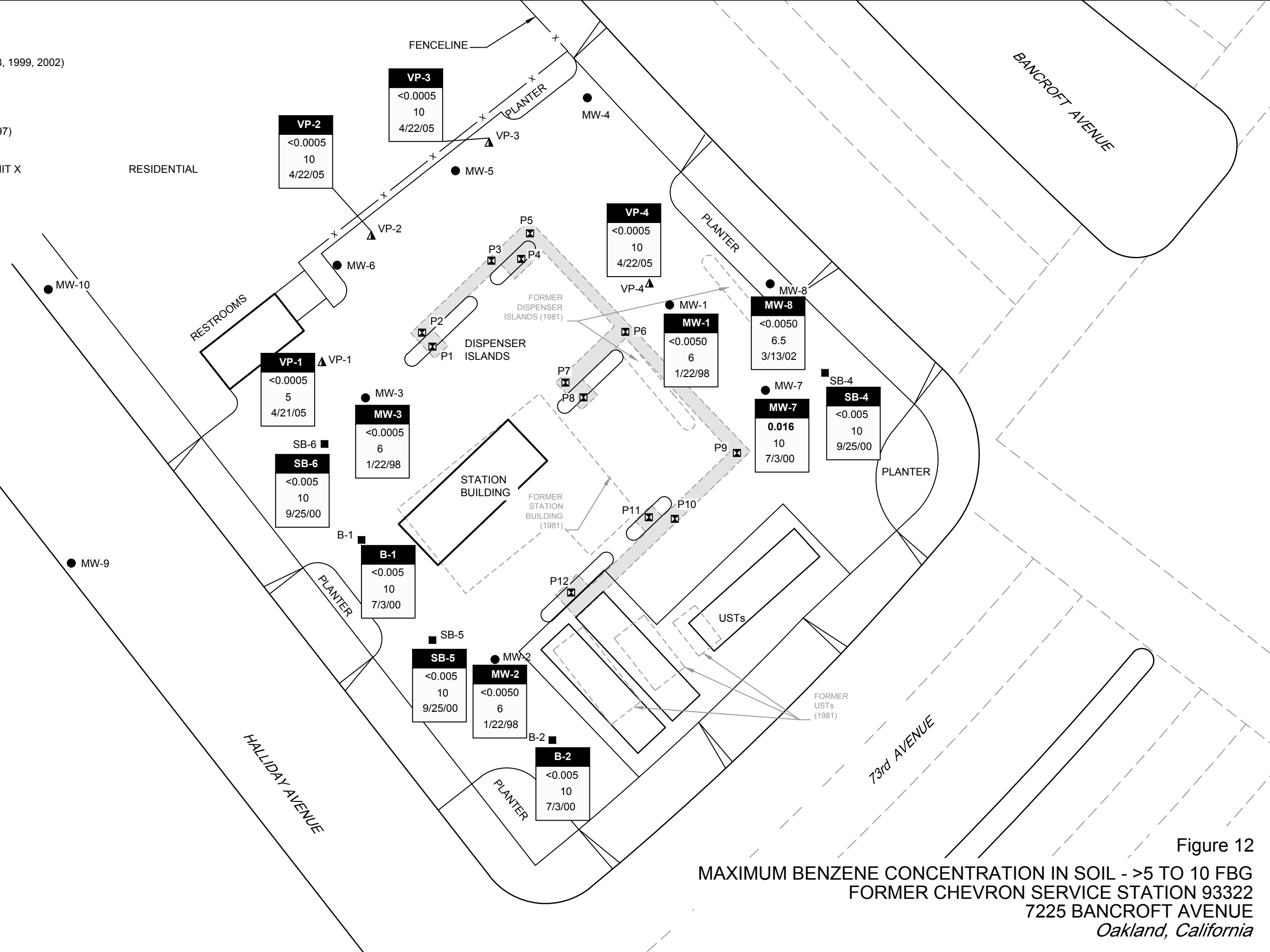
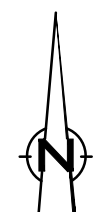
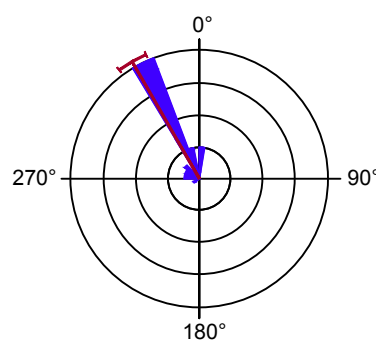


Figure 12
 MAXIMUM BENZENE CONCENTRATION IN SOIL - >5 TO 10 FBG
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X

P-2	WELL ID
<1.0	BENZENE CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

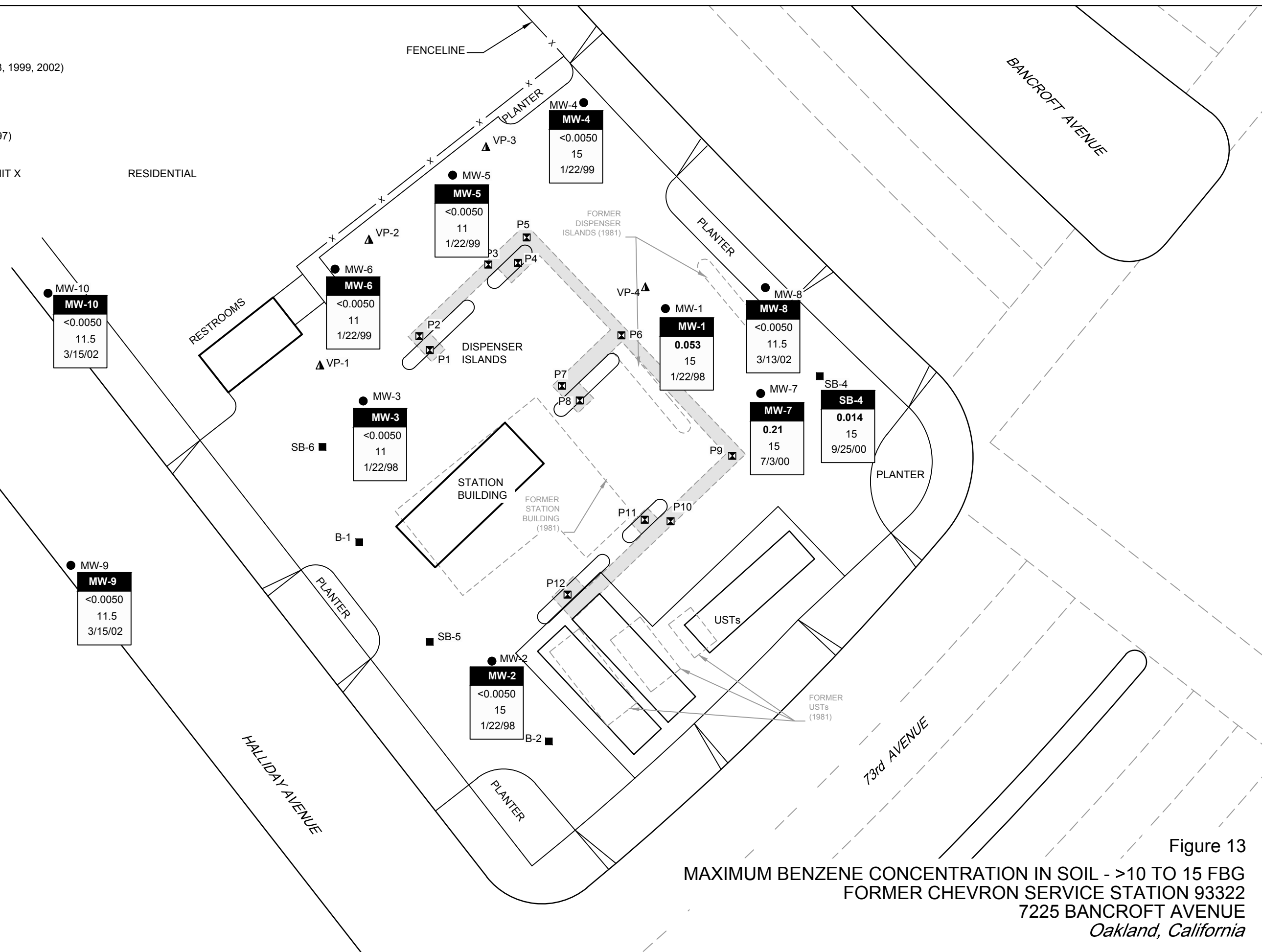
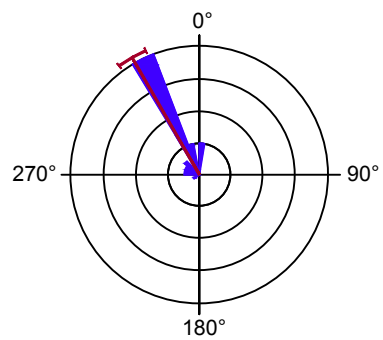


Figure 13
 MAXIMUM BENZENE CONCENTRATION IN SOIL - >10 TO 15 FBG
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)
- mg/kg MILLIGRAMS PER KILOGRAM
- <X NOT DETECTED AT REPORTING LIMIT X
- 1.0 BENZENE ISOCONCENTRATION CONTOUR LINE IN mg/kg, DASHED WHERE INFERRED

P-2	WELL ID
<1.0	BENZENE CONCENTRATION IN mg/kg
5	DEPTH
4/22/05	DATE



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

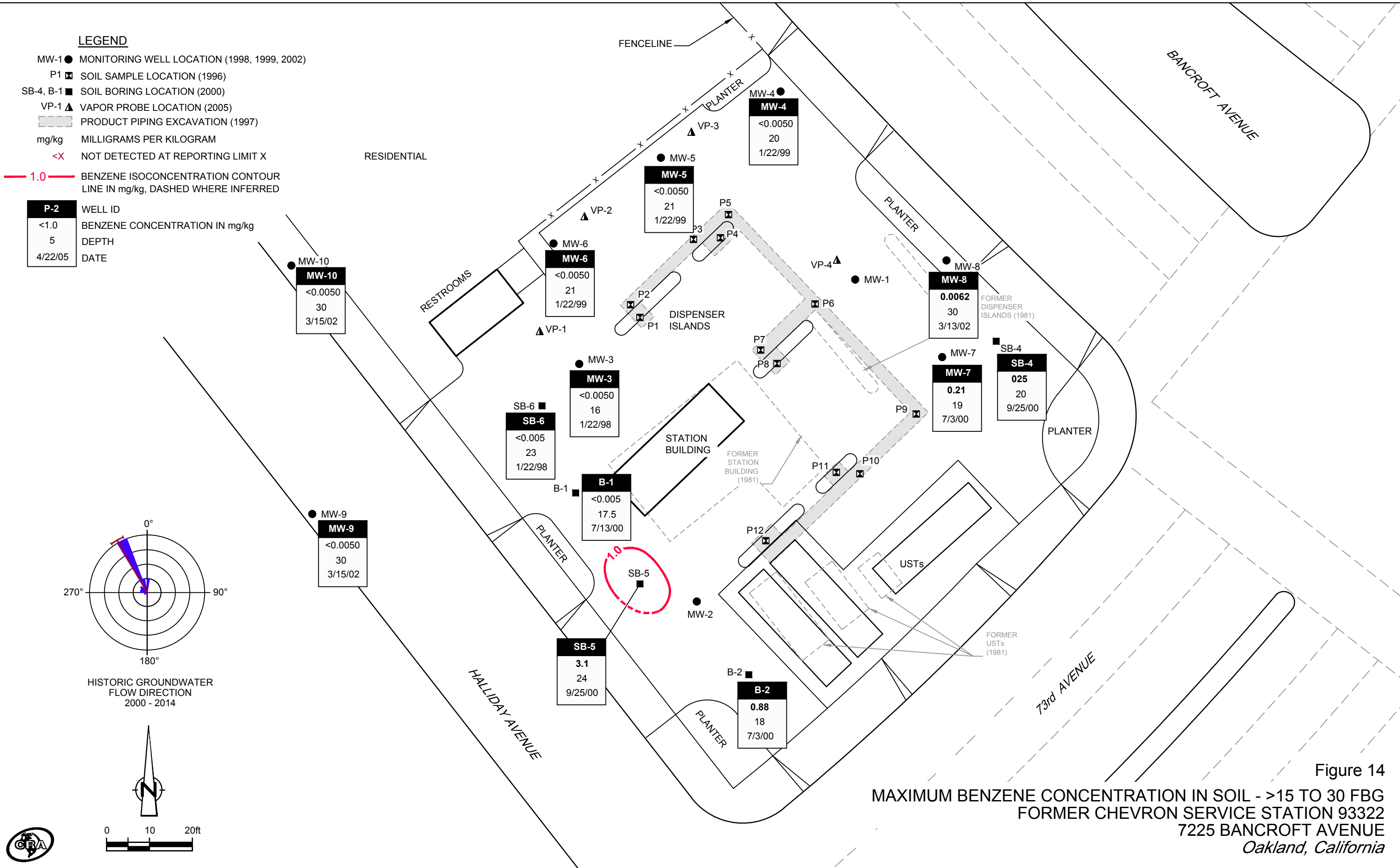
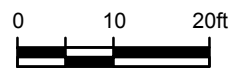


Figure 14
MAXIMUM BENZENE CONCENTRATION IN SOIL - >15 TO 30 FBG
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California

LEGEND

MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)

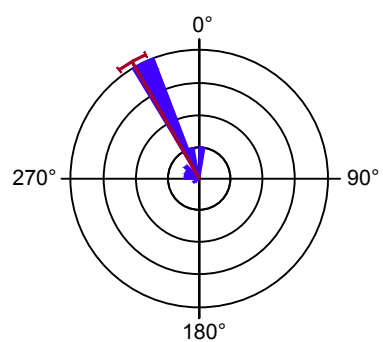
▨ PRODUCT PIPING EXCAVATION (1997)

MW-1 WELL ID
1,400 a TPHg CONCENTRATION IN MICROGRAMS PER LITER (µg/L)

a SAMPLED MARCH 31, 2014

b SAMPLED JUNE 30, 2014

100 TPHg ISOCONCENTRATION CONTOUR LINE IN µg/L, DASHED WHERE INFERRED



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

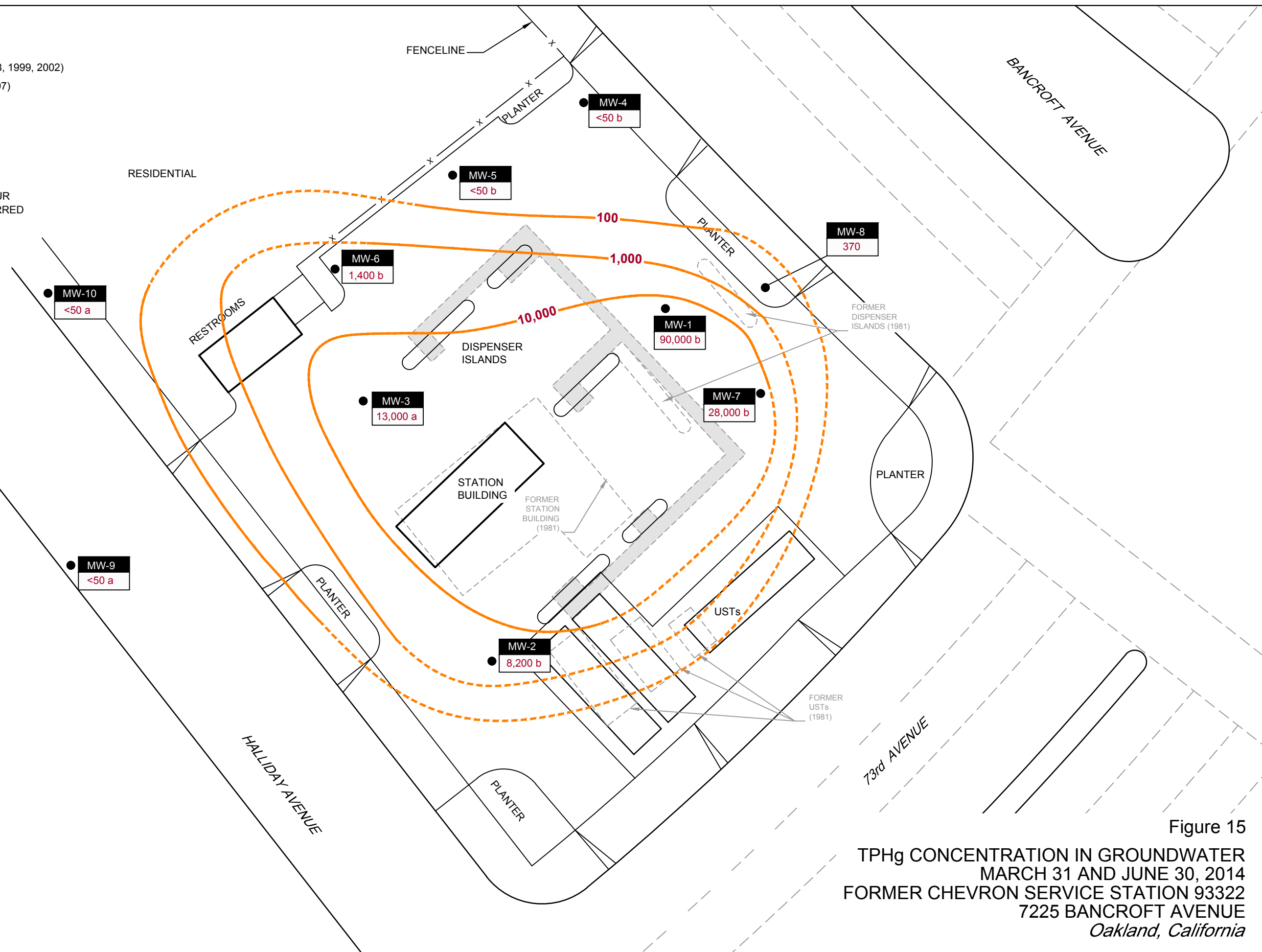
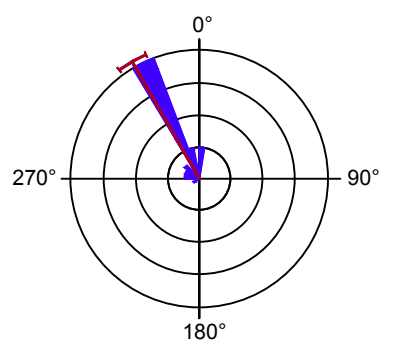
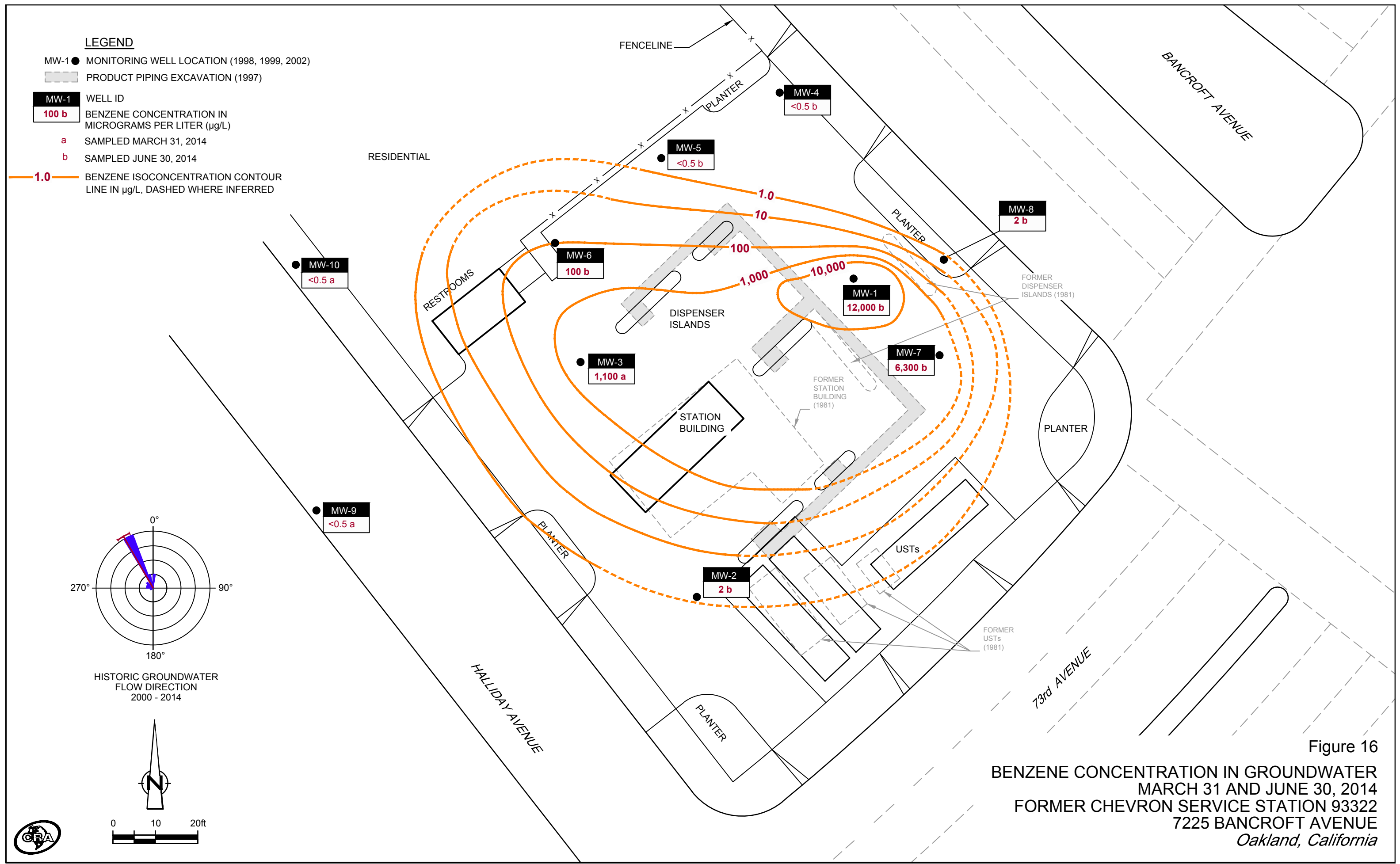


Figure 15
 TPHg CONCENTRATION IN GROUNDWATER
 MARCH 31 AND JUNE 30, 2014
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)
- ▨ PRODUCT PIPING EXCAVATION (1997)
- MW-1 WELL ID
- 100 b BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- a SAMPLED MARCH 31, 2014
- b SAMPLED JUNE 30, 2014
- 1.0 BENZENE ISOCONCENTRATION CONTOUR LINE IN µg/L, DASHED WHERE INFERRED



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

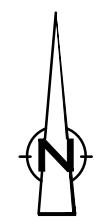


Figure 16
BENZENE CONCENTRATION IN GROUNDWATER
MARCH 31 AND JUNE 30, 2014
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California

LEGEND

MW-1 ● MONITORING WELL LOCATION (1998, 1999, 2002)

▨ PRODUCT PIPING EXCAVATION (1997)

MW-1 WELL ID
21 b MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)

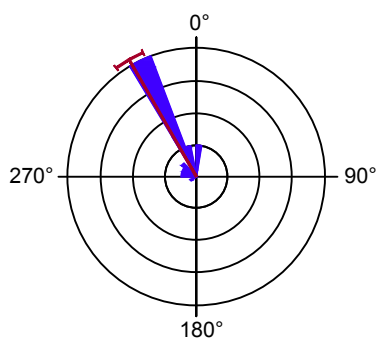
a SAMPLED MARCH 31, 2014

b SAMPLED JUNE 30, 2014

10 MTBE ISOCONCENTRATION CONTOUR LINE IN µg/L, DASHED WHERE INFERRED

NOTE:

*REPORTED VALUE IS ESTIMATED. SEE LABORATORY REPORT FOR DETAILS.



HISTORIC GROUNDWATER FLOW DIRECTION 2000 - 2014

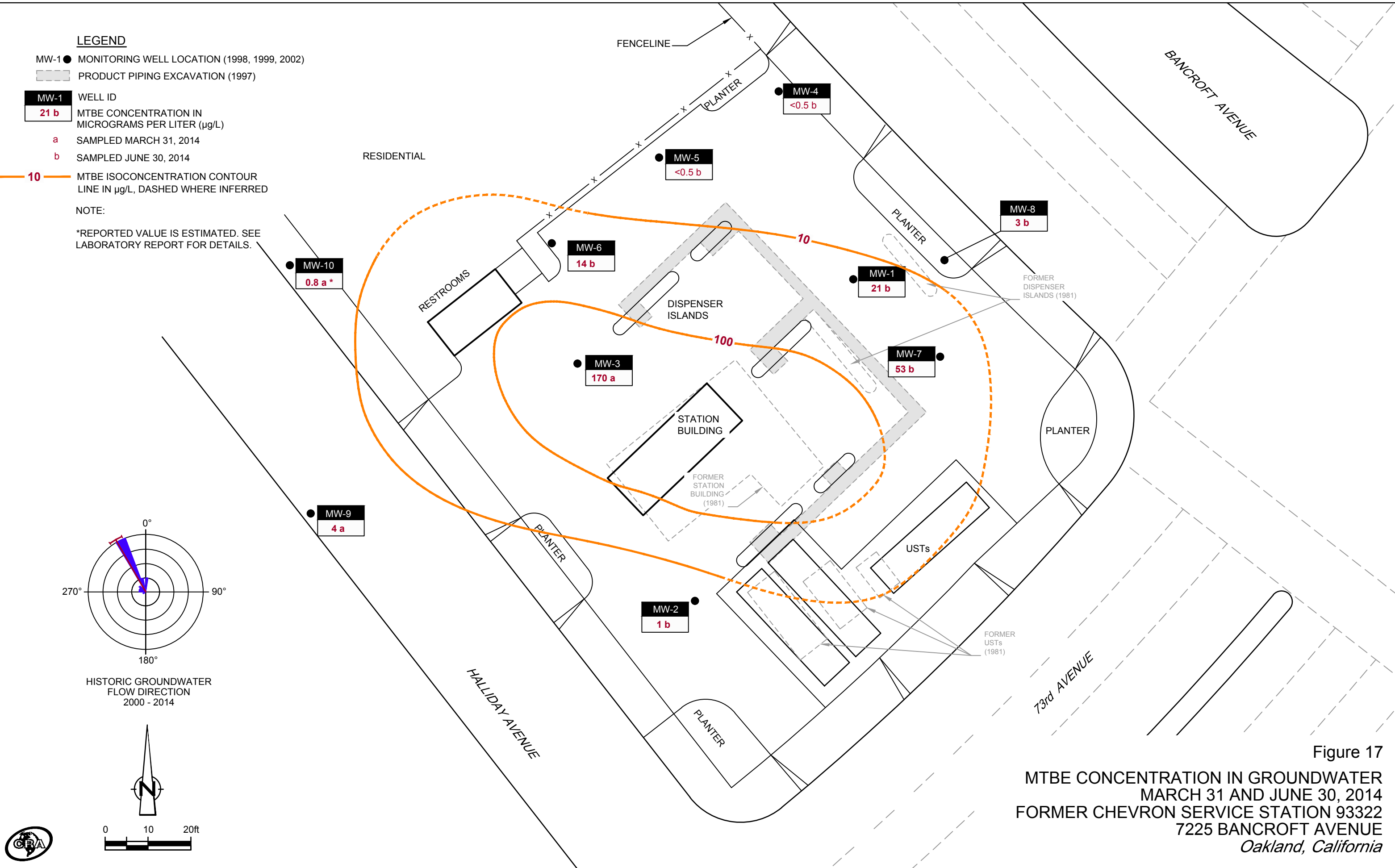
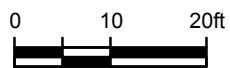


Figure 17
 MTBE CONCENTRATION IN GROUNDWATER
 MARCH 31 AND JUNE 30, 2014
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 Oakland, California

LEGEND

- PROPOSED SOIL BORING LOCATION
- MONITORING WELL LOCATION (1998, 1999, 2002)
- P1 ☒ SOIL SAMPLE LOCATION (1996)
- SB-4, B-1 ■ SOIL BORING LOCATION (2000)
- VP-1 ▲ VAPOR PROBE LOCATION (2005)
- ▭ PRODUCT PIPING EXCAVATION (1997)

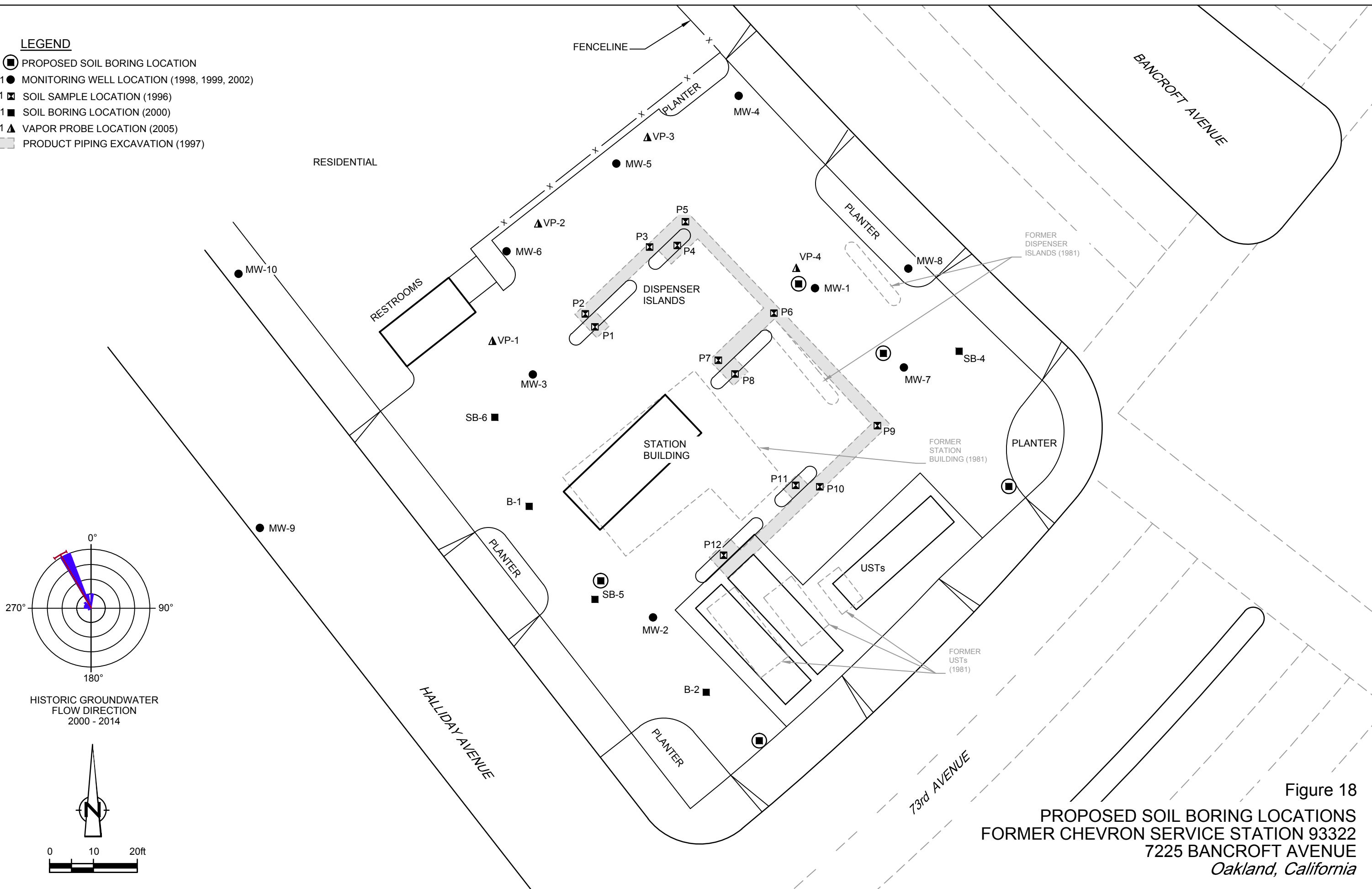


Figure 18
PROPOSED SOIL BORING LOCATIONS
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
Oakland, California

Tables

TABLE 1

**CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Napthalen e	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	PAHs	Pesticides	PCBs
<i>Concentrations reported in milligrams per kilogram (mg/kg)</i>																			
LTC - Commercial - 0 to 5 fbg			NE	8.2	NE	89	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	0.68	NE	NE
LTC - Commercial - Outdoor Air - 0 to 10 fbg			NE	12	NE	134	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
LTC - Utility Worker - 0 to 10 fbg			NE	14	NE	314	NE	NE	219	NE	NE	NE	NE	NE	NE	NE	4.5	NE	NE

2005 Cambria Soil Vapor Probe Installation

VP-1	04/21/05	5.0	<1.0	0.0006	0.001	<0.001	0.001	0.001	--	--	--	--	--	--	<0.001	--	--	--	--
VP-1	04/21/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-2	04/22/05	5.0	<1.0	0.0007	<0.001	<0.001	0.001	<0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-2	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-3	04/22/05	5.0	<1.0	0.0007	0.002	0.001	0.005	<0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-3	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-4	04/22/05	5.0	<1.0	0.0008	0.002	0.001	0.007	<0.0005	--	--	--	--	--	--	<0.001	--	--	--	--
VP-4	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	0.001	--	--	--	--	--	--	<0.001	--	--	--	--

2002 Gettler-Ryan Well Installation

MW-8	3/13/2002	6.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/13/2002	11.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/13/2002	16.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/13/2002	21.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/13/2002	30.0	11	0.0062	<0.0050	<0.0050	<0.060	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/15/2002	11.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/15/2002	21.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/15/2002	30.0	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/15/2002	11.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/15/2002	21.5	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/15/2002	30.0	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	--	--	--

2000 Cambria Additional Baseline Investigation

SB-4	09/25/00	3.0	<1.0	<0.005	<0.005	<0.005	0.014	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	0.00284b, 0.00208c	<20
SB-4	09/25/00	5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	0.00307b, 0.00210c	<20
SB-4	09/25/00	10.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-4	09/25/00	15.0	58	0.14	0.24	0.33	0.86	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20

TABLE 1

**CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalen e	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	PAHs	Pesticides	PCBs
LTC - Commercial - 0 to 5 fbg			NE	8.2	NE	89	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	0.68	NE	NE
LTC - Commercial - Outdoor Air - 0 to 10 fbg			NE	12	NE	134	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
LTC - Utility Worker - 0 to 10 fbg			NE	14	NE	314	NE	NE	219	NE	NE	NE	NE	NE	NE	NE	4.5	NE	NE
SB-4	09/25/00	18.0	96	0.25	0.62	1.3	5.7	<0.10*	0.58	--	--	--	--	--	--	--	0.86a	ND	<20
SB-4	09/25/00	20.0	21	0.25	0.58	0.25	1.3	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-4	09/25/00	24.0	<1.0	<0.005	<0.005	<0.005	0.017	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-5	09/25/00	3.0	<1.0	0.0081	0.0094	0.012	0.014	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-5	09/25/00	5.0	<1.0	0.0051	0.0052	0.01	0.016	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-5	09/25/00	10.0	<1.0	<0.005	<0.005	<0.005	0.016	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-5	09/25/00	16.0	65	0.22	0.27	0.34	0.77	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	0.00746d	<20
SB-5	09/25/00	20.0	19	0.079	0.099	0.083	0.21	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-5	09/25/00	24.0	1,400	3.1	10	28	150	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-6	09/25/00	3.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-6	09/25/00	5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
SB-6	09/25/00	10.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	0.00163c	<20
SB-6	09/25/00	23.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.10*	<0.10	--	--	--	--	--	--	--	<0.10	ND	<20
2000 Gettler-Ryan Baseline Investigation																			
B-1	07/03/00	10.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	--	--	--	--	--	--	--	--	--
B-1	07/03/00	17.5	<1.0	<0.005	<0.005	<0.005	<0.005	0.083	--	--	--	--	--	--	--	--	--	--	--
B-2	07/03/00	5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	--	--	--	--	--	--	--	--	--
B-2	07/03/00	10.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	--	--	--	--	--	--	--	--	--
B-2	07/03/00	18.0	140	0.88	1.1	5.8	1.1	1.7	--	--	--	--	--	--	--	--	--	--	--
B-3 (MW-7)	07/03/00	10.0	<1.0	0.016	<0.005	<0.005	0.01	<0.050	--	--	--	--	--	--	--	--	--	--	--
B-3 (MW-7)	07/03/00	15.0	94	0.21	0.68	1.9	8.7	<0.050	--	--	--	--	--	--	--	--	--	--	--
B-3 (MW-7)	07/03/00	19.0	58	0.21	0.52	1.2	5.9	<0.050	--	--	--	--	--	--	--	--	--	--	--
1999 Gettler-Ryan Monitoring Well Installation																			
MW-4	1/22/1999	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/22/1999	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--
MW-4	1/22/1999	20.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--

TABLE 1

**CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalen										PAHs	Pesticides	PCBs
									e	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Concentrations reported in milligrams per kilogram (mg/kg)				
LTC - Commercial - 0 to 5 fbg			NE	8.2	NE	89	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	NE	0.68	NE	NE	
LTC - Commercial - Outdoor Air - 0 to 10 fbg			NE	12	NE	134	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
LTC - Utility Worker - 0 to 10 fbg			NE	14	NE	314	NE	NE	219	NE	NE	NE	NE	NE	NE	NE	NE	4.5	NE	NE	
MW-5	1/22/1999	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	1/22/1999	16.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	1/22/1999	21.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/22/1999	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/22/1999	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/22/1999	16.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/22/1999	21.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	
1998 Gettler-Ryan Well Installation																					
MW-1	1/22/1998	6.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/22/1998	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/22/1998	15.0	23	0.053	0.014	0.28	0.99	0.057	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/22/1998	6.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/22/1998	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.079	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/22/1998	15.0	8.2	<0.0050	0.022	0.012	0.065	0.40	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	1/22/1998	6.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	1/22/1998	11.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	1/22/1998	16.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
1996 Touchstone Piping Removal Report																					
P1	8/27/1996	2.0	<1.0	0.011	<0.0050	<0.0050	0.022	0.65	--	--	--	--	--	--	--	--	--	--	--	--	
P2	8/27/1996	2.0	<1.0	<0.0050	<0.0050	<0.0050	0.024	0.47	--	--	--	--	--	--	--	--	--	--	--	--	
P3	8/27/1996	2.0	<1.0	<0.0050	<0.0050	<0.0050	0.0074	0.15	--	--	--	--	--	--	--	--	--	--	--	--	
P4	8/27/1996	2.0	<1.0	<0.0050	<0.0050	<0.0050	0.011	0.19	--	--	--	--	--	--	--	--	--	--	--	--	
P5	8/27/1996	3.0	<1.0	<0.0050	0.0095	<0.0050	0.0072	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	
P6	8/27/1996	4.0	500	<1.0	8.1	7.3	59	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	
P7	8/27/1996	3.0	200	4.2	13	4.5	31	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	
P8	8/27/1996	3.0	250	1.6	10	5.3	32	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 1

**CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene							PAHs	Pesticides	PCBs
									e	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB			
<i>Concentrations reported in milligrams per kilogram (mg/kg)</i>																		
LTC - Commercial - 0 to 5 fbg			NE	8.2	NE	89	NE	NE	45	NE	NE	NE	NE	NE	NE	0.68	NE	NE
LTC - Commercial - Outdoor Air - 0 to 10 fbg			NE	12	NE	134	NE	NE	45	NE	NE	NE	NE	NE	NE	NE	NE	NE
LTC - Utility Worker - 0 to 10 fbg			NE	14	NE	314	NE	NE	219	NE	NE	NE	NE	NE	NE	4.5	NE	NE
P9	8/27/1996	4.0	<1.0	<0.0050	0.0095	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
P10	8/27/1996	4.0	40	0.33	1.8	0.56	1.7	1.1	--	--	--	--	--	--	--	--	--	--
P11	8/27/1996	3.0	<1.0	<0.0050	0.0095	<0.0050	0.0082	0.092	--	--	--	--	--	--	--	--	--	--
P12	8/27/1996	3.0	6	0.059	0.011	0.015	0.35	0.65	--	--	--	--	--	--	--	--	--	--

Notes:

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015 unless otherwise noted.

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; before February 26, 2008, analyzed by EPA Method 8020 unless otherwise noted

Methyl tertiary-butyl ether (MTBE) analyzed by EPA Method 8260B after 1998 and by EPA Method 8020 from 1998 and prior

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) and ethanol analyzed by EPA Method 8260B

Polycyclic aromatic hydrocarbons (PAHs) analyzed by EPA Method 8270B

Pesticides and polychlorinated biphenyls (PCBs) by EPA Method 8081A and 8082

NE = Not established

<x = Not detected at reporting limit x

-- = Not analyzed

fbg = feet below grade

ND = not detected above stated laboratory method detection limits

LTC = Low-threat Underground Storage Tank Case Closure Policy Criteria - California State Water Resources Control Board (SWRCB), August 2012, Low-Threat Underground Storage Tank Policy.

a = 2-methylnaphthalene

b = Aldrin

c = heptachlor

d = delta-BHC

TABLE 2

CUMULATIVE SOIL ANALYTICAL DATA - METALS
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Sample ID	Sample Date	Sample	Hg	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Ag	Tl	V	Zn
		Depth (fbg)																	
2000 Cambria Additional Baseline Investigation																			
SB-4	09/25/00	3.0	0.037	<5.0	<5.0	140	<5.0	<5.0	26	21	38	3	<0.50	28	<5.0	1.3	12	84	19
SB-4	09/25/00	5.0	0.17	<5.0	<5.0	120	<5.0	<5.0	40	18	37	6.9	<0.50	37	<5.0	0.82	13	91	40
SB-4	09/25/00	10.0	0.18	<5.0	<5.0	120	<5.0	<5.0	37	20	52	4	<0.50	53	<5.0	0.68	15	100	31
SB-4	09/25/00	15.0	0.088	<5.0	<5.0	160	<5.0	<5.0	44	14	30	7.5	<0.50	54	<5.0	1.7	<10	46	44
SB-4	09/25/00	18.0	0.051	<5.0	<5.0	200	<5.0	<5.0	47	16	30	8.2	<0.50	56	<5.0	<0.50	17	49	48
SB-4	09/25/00	20.0	0.1	<5.0	<5.0	160	<5.0	<5.0	46	14	36	6.6	<0.50	56	<5.0	1.8	15	49	50
SB-4	09/25/00	24.0	0.049	<5.0	<5.0	120	<5.0	<5.0	32	6.3	18	5.3	<0.50	33	<5.0	2.1	18	29	34
SB-5	09/25/00	3.0	0.043	<5.0	<5.0	170	<5.0	<5.0	27	19	46	3.1	<0.50	33	<5.0	<0.50	13	79	23
SB-5	09/25/00	5.0	0.055	<5.0	<5.0	150	<5.0	<5.0	32	23	45	3.6	<0.50	39	<5.0	1.9	12	88	30
SB-5	09/25/00	10.0	0.15	<5.0	<5.0	130	<5.0	<5.0	34	24	49	3.8	<0.50	57	<5.0	1.3	15	100	30
SB-5	09/25/00	16.0	0.092	<5.0	<5.0	130	<5.0	<5.0	40	13	27	6.7	<0.50	50	<5.0	1.2	<10	45	40
SB-5	09/25/00	20.0	0.15	<5.0	<5.0	120	<5.0	<5.0	30	7	14	4.2	<0.50	35	<5.0	<0.50	13	29	31
SB-5	09/25/00	24.0	0.1	<5.0	<5.0	140	<5.0	<5.0	28	8.1	19	4.7	<0.50	39	<5.0	<0.50	<10	32	35
SB-6	09/25/00	3.0	0.069	<5.0	<5.0	150	<5.0	<5.0	28	18	44	2.7	<0.50	39	<5.0	<0.50	14	87	21
SB-6	09/25/00	5.0	0.23	<5.0	<5.0	150	<5.0	<5.0	36	10	46	3.3	<0.50	39	<5.0	1.8	11	76	27
SB-6	09/25/00	10.0	0.22	<5.0	<5.0	100	<5.0	<5.0	34	20	44	2.7	<0.50	50	<5.0	1.3	<10	92	29
SB-6	09/25/00	23.0	0.043	<5.0	<5.0	110	<5.0	<5.0	30	8.3	18	5.6	<0.50	36	<5.0	2.2	<10	35	33
1996 Touchstone Piping Removal Report																			
P1-2	8/27/1996	2.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P2-2	8/27/1996	2.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P3-2	8/27/1996	2.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--

CUMULATIVE SOIL ANALYTICAL DATA - METALS
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Sample ID	Sample Date	Sample	Hg	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Ag	Tl	V	Zn
		Depth (fbg)																	
P4-2	8/27/1996	2.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P5-3	8/27/1996	3.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P6-4	8/27/1996	4.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P7-3	8/27/1996	3.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P8-3	8/27/1996	3.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P9-4	8/27/1996	4.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P10-4	8/27/1996	4.0	--	--	--	--	--	--	--	--	--	6.1	--	--	--	--	--	--	--
P11-3	8/27/1996	3.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--
P12-3	8/27/1996	3.0	--	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--

Notes:

Hg = mercury, Sb = antimony, Ba = barium, Be = beryllium, Cd = cadmium, Cr = chromium, Co = cobalt, Cu = copper, Pb = lead, Mo = molybdenum, Ni = nickel, Se = selenium, Ag = silver, Tl = thallium, V = vanadium, Zn = zinc by EPA Method 6010

<x = Not detected at reporting limit x

--- = Not analyzed

fbg = feet below grade

ND = not detected above various laboratory method detection limits

CUMULATIVE
GRAB-GROUNDWATER ANALYTICAL DATA
FORMER CHEVON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPH	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Other VOCs*	SVOCs*	Hg	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Ag	Tl	V	Zn	Pesticides	PCBs
ESLs - Groundwater (Drinking)			100	100	100	100	1	40	30	20	5	12	NE	NE	NE	0.5	0.05	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
MW-2	9/28/2000	--	5,400	--	--	--	38	17	470	730	70	<50	<2.0	<2.0	18	--	--	<500	--	11a, 39b	<0.00020	<0.10	<0.10	0.16	<0.010	<0.010	0.050	<0.010	<0.010	<0.020	<0.010	0.037	<0.10	0.043	0.24	0.013	0.54	10.8c	ND
MW-3	9/28/2000	--	24,000	--	--	--	1,500	560	1,500	5,700	1,400	<500	<20	<20	500	--	--	<5,000	--	51a, 200b	<0.00020	<0.10	<0.10	0.34	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	<0.10	0.044	0.24	<0.010	0.041	16.0c	ND
MW-7	9/28/2000	--	4,100	--	--	--	2,000	1,600	180	670	82	<500	<20	<20	<20	--	--	<5,000	--	17a, 120b	<0.00020	<0.10	<0.10	0.098	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	0.017	0.018	<0.10	0.051	<0.10	<0.010	0.067	ND	ND

Notes:
 Total purgable hydrocarbons (TPH) by DHS LUFT Method
 Total petroleum hydrocarbons as motor oil (TPHmo) analyzed by EPA Method 8015B modified unless otherwise noted.
 Total petroleum hydrocarbons as diesel (TPHd) analyzed by EPA Method 8015B with silica gel cleanup unless otherwise noted.
 Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified unless otherwise noted.
 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)
 Volatile Organic Compounds (VOCs) by EPA Method 8260B
 Semivolatile Organic Compounds (SVOCs) by EPA Method 8270C
 Hg = mercury, As = antimony, Ba = barium, Be = beryllium, Cd = Cadmium, Cr = chromium, Co = cobalt, Cu = copper, Pb = lead, Mo = molybdenum, Ni = nickel, Se = selenium, Ag = silver, Tl = thallium, V = vanadium, Zn = zinc by EPA 6000/7000 Series Methods
 Organochlorine Pesticides (Pesticides) analyzed by EPA Method 8081A, concentrations below detection limits unless otherwise noted
 Polychlorinated biphenyls (PCBs) by EPA Method 8082, concentrations below detection limits unless otherwise noted
 fbg = feet below grade.
 <x = Not detected at reporting limit x.
 ND = not detected at various laboratory method detection limits.

* = Refer to related investigation report for complete analytical results: only detected compound concentrations reported
 a = 2-methylnaphthalene
 b = naphthalene
 c = delta-BHC

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/08/1998	40.41	13.88	26.53	0.00	0.00	130,000	9,700	8,200	3,200	15,000	-	<250.0	-	-	-	-	-	-
MW-1	06/16/1998	40.41	14.23	26.18	0.00	0.00	96,000	15,000	12,000	2,600	11,000	-	1,300	-	-	-	-	-	-
MW-1	07/29/1998	40.41	17.82	22.59	0.00	0.00	370,000	19,000	14,000	5,800	15,000	-	<2,500	-	-	-	-	-	-
MW-1	08/13/1998	40.41	18.40	22.01	0.00	0.00	120,000	19,000	16,000	2,900	14,000	-	<1,000	-	-	-	-	-	-
MW-1	11/24/1998	40.41	20.80	19.61	0.00	0.00	100,000	26,000	18,000	4,000	22,000	-	2,000	-	-	-	-	-	-
MW-1	02/03/1999	40.41	17.45	22.96	0.00	0.00	110,000	27,000	16,000	3,800	22,000	-	<2.5	-	-	-	-	-	-
MW-1	06/07/1999	40.41	16.44	24.29	0.40	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/07/1999	40.41	20.71	19.97	0.34	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	10/27/1999	40.41	21.75	18.93	0.34	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/08/2000	40.41	17.97	22.44	0.00	0.00	147,000	19,600	13,700	4,020	21,300	-	<2,500	-	-	-	-	-	-
MW-1	05/05/2000	40.41	16.05	24.36	0.00	0.00	150,000 ²	28,000	17,000	4,400	23,000	-	<1,000	-	-	-	-	-	-
MW-1	07/28/2000	40.41	19.20	21.21	0.00	0.00	76,000 ²	20,000	15,000	3,400	23,000	-	1,200	-	-	-	-	-	-
MW-1	11/26/2000	40.41	20.18	20.44	0.26	0.26 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/09/2001	40.41	18.03	22.40	0.03	0.26 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/11/2001	40.41	15.10	25.31	0.00	0.00	89,000 ²	21,000	12,000	3,200	14,000	-	<500	-	-	-	-	-	-
MW-1	08/30/2001	40.41	20.42	20.05	0.07	0.26 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/21/2001	40.41	20.52	20.11	0.27	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/05/2002	40.41	14.63	25.79	0.01	0.00	130,000	16,000	13,000	4,200	23,000	-	<30.0	-	-	-	-	-	-
MW-1	04/01/2002	37.40	12.37	25.03	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/05/2002	37.40	12.94	24.46	0.00	0.00	230,000	12,000	9,000	5,500	28,000	-	280	-	-	-	-	-	-
MW-1	11/04/2002	37.40	20.03	17.37	0.00	0.00	130,000	24,000	15,000	3,900	20,000	-	<60	-	-	-	-	-	-
MW-1	02/03/2003	37.40	14.18	23.22	0.00	0.00	100,000	13,000	8,900	3,000	15,000	-	<130.0	-	-	-	-	-	-
MW-1	05/02/2003	37.40	13.28	24.12	0.00	0.00	140,000	9,900	5,900	4,200	21,000	-	<130	-	-	-	-	-	-
MW-1	08/01/2003 ⁷	37.40	16.82	20.58	0.00	0.00	250,000	16,000	7,300	3,700	19,000	45	-	-	-	-	-	-	-
MW-1	11/21/2003 ⁷	37.40	18.34	19.06	0.00	0.00	110,000	18,000	9,500	3,000	17,000	<10	-	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/10/2004 ⁷	37.40	13.51	23.89	0.00	0.00	51,000	4,800	1,700	760	6,400	20	-	-	-	-	-	-	-
MW-1	05/11/2004 ⁷	37.40	14.35	23.05	0.00	0.00	80,000	13,000	6,500	2,800	14,000	61	-	-	-	-	-	-	-
MW-1	08/10/2004 ⁷	37.40	16.80	20.61	0.01	0.00	100,000	14,000	8,700	3,200	17,000	<25	-	-	-	-	-	-	-
MW-1	11/08/2004	37.40	15.63	21.89	0.15	1.30 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/21/2005	37.40	11.84	25.98	0.52	0.60 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/10/2005	37.40	11.49	26.11	0.25	1.11 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/12/2005	37.40	14.44	22.98	0.03	1.01 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/11/2005	37.40	18.58	19.13	0.39	0.75 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/20/2006	37.40	12.66	25.33	0.74	0.25 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/12/2006	37.40	10.71	26.92	0.29	0.05 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/14/2006	37.40	15.82	21.78	0.25	0.02 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2006	37.40	18.49	19.21	0.38	0.55 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/07/2007	37.40	15.48	21.98	0.08	0.06 ¹⁰	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/07/2007	37.40	4.83	32.77	0.25	0.39 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/03/2007	37.40	18.06	19.76	0.52	0.52 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	10/12/2007	37.40	19.29	18.13	0.03	0.16 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/02/2007 ⁷	37.40	19.18	18.22	0.00	0.00	140,000	9,800	9,500	4,100	20,000	<10	-	-	-	-	-	-	-
MW-1	12/07/2007 ⁷	37.40	19.06	18.34	0.00	0.00	130,000	11,000	11,000	3,800	20,000	10	-	-	-	-	-	-	-
MW-1	02/01/2008 ⁷	37.40	13.45	23.95	0.00	0.00	61,000	2,200	2,000	2,000	10,000	11	-	-	-	-	-	-	-
MW-1	05/09/2008 ⁷	37.40	15.10	22.30	0.00	0.00	81,000	13,000	10,000	3,500	18,000	30	-	-	-	-	-	-	-
MW-1	08/22/2008 ⁷	37.40	18.63	18.77	0.00	0.00	210,000	13,000	8,800	7,300	37,000	<50	-	-	-	-	-	-	-
MW-1	11/26/2008 ⁷	37.40	20.09	17.31	0.00	0.00	68,000	15,000	9,100	3,600	17,000	<25	-	-	-	-	-	-	-
MW-1	05/20/2009	37.40	19.48	17.92	0.00	0.00	58,000	11,000	12,000	15,000	59,000	<50	-	<5,000	-	-	-	-	-
MW-1	08/26/2009	37.40	19.06	18.34	0.00	0.00	340,000	17,000	13,000	8,000	43,000	<25	-	<2,500	-	-	-	-	-
MW-1	11/12/2009	37.40	17.72	19.68	0.00	0.00	140,000	16,000	10,000	4,400	23,000	<10	-	<1,000	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	M/TBE by SW8260	M/TBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/01/2010	37.40	12.80	24.60	0.00	0.00	110,000	7,100	6,100	4,000	20,000	7 J	-	<500	-	-	-	-	-
MW-1	05/17/2010	37.40	11.14	26.26	0.00	0.00	75,000	7,200	3,600	2,700	12,000	31	-	<500	-	-	-	-	-
MW-1	08/26/2010	37.40	15.40	22.00	0.00	0.00	96,000	12,000	5,400	3,600	16,000	59	-	<500	-	-	-	-	-
MW-1	11/11/2010	37.40	17.70	19.70	0.00	0.00	120,000	13,000	6,600	2,700	13,000	26	-	<1,000	-	-	-	-	-
MW-1	02/10/2011	37.40	13.03	24.37	0.00	0.00	52,000	7,100	3,800	2,800	12,000	25	-	<1,000	-	-	-	-	-
MW-1	06/17/2011	37.40	12.35	25.05	0.00	0.00	30,000	3,600	940	1,000	3,200	52	-	<500	-	-	-	-	-
MW-1	09/08/2011	37.40	15.68	21.72	0.00	0.00	98,000	13,000	6,600	3,700	14,000	59	-	<1,000	-	-	-	-	-
MW-1	12/16/2011	37.40	16.47	20.93	0.00	0.00	140,000	14,000	6,500	2,900	12,000	47 J	-	<2,500	-	-	-	-	-
MW-1	03/02/2012	37.40	16.55	20.85	0.00	0.00	130,000	14,000	7,400	3,100	14,000	31	-	<1,000	-	-	-	-	-
MW-1	06/08/2012	37.40	14.11	23.29	0.00	0.00	120,000	8,900	2,900	2,600	11,000	86	-	<500	-	-	-	-	-
MW-1	09/14/2012	37.40	18.10	19.30	0.00	0.00	280,000	18,000	8,200	4,600	22,000	74	-	<2,500	110 J	<25	<25	<25	<25
MW-1	12/21/2012	37.40	13.61	23.79	0.00	0.00	120,000	12,000	6,800	3,000	15,000	<100	-	<10,000	-	-	-	-	-
MW-1	04/01/2013	37.40	15.63	21.77	0.00	0.00	120,000	15,000	8,200	4,400	18,000	77	-	<250	-	-	-	-	-
MW-1	6/28/2013	37.40	17.34	20.06	0.00	0.00	130,000	16,000	10,000	3,500	17,000	34	-	<500	-	-	-	-	-
MW-1	9/20/2013	37.40	19.21	18.19	0.00	0.00	130,000	19,000	12,000	4,000	19,000	27	-	<1,000	-	-	-	-	-
MW-1	12/30/2013	37.40	20.72	16.68	0.00	0.00	140,000	18,000	13,000	6,600	34,000	21	-	<1,000	-	-	-	-	-
MW-1	03/31/2014	37.40	15.78	21.62	0.00	0.00	130,000	17,000	8,600	3,500	17,000	<25	-	<2,500	-	-	-	-	-
MW-1	06/30/2014	37.40	17.34	20.06	0.00	0.00	90,000	12,000	7,400	2,800	14,000	21	-	<1,000	-	-	-	-	-
MW-2	02/08/1998	38.73	7.60	31.13	0.00	0.00	24,000	130	170	450	1,900	-	2,300	-	-	-	-	-	-
MW-2	06/16/1998	38.73	9.12	29.61	0.00	0.00	8,900	31	46	310	1,100	-	260	-	-	-	-	-	-
MW-2	07/29/1998	38.73	11.67	27.06	0.00	0.00	7,600	15	21	150	480	-	82	-	-	-	-	-	-
MW-2	08/13/1998	38.73	12.41	26.32	0.00	0.00	14,000	26	80	500	2,100	-	32	-	-	-	-	-	-
MW-2	11/24/1998	38.73	15.63	23.10	0.00	0.00	37,000	63	220	1,300	7,100	-	770	-	-	-	-	-	-
MW-2	02/03/1999	38.73	11.57	27.16	0.00	0.00	16,000	140	110	850	3,100	-	900	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	06/07/1999	38.73	10.95	27.78	0.00	0.00	4,300	<10	<10	120	260	-	160	-	-	-	-	-	-
MW-2	09/07/1999	38.73	12.73	26.00	0.00	0.00	10,700	50.5	<25	297	1,020	-	<250	-	-	-	-	-	-
MW-2	10/27/1999	38.73	12.71	26.02	0.00	0.00	7,240	53.8	31.9	234	654	-	448	-	-	-	-	-	-
MW-2	02/08/2000	38.73	10.14	28.59	0.00	0.00	10,100	42.9	18.4	424	1,480	-	206	-	-	-	-	-	-
MW-2	05/05/2000	38.73	10.12	28.61	0.00	0.00	7,800 ²	34	22	320	1,100	-	170	-	-	-	-	-	-
MW-2	07/28/2000	38.73	12.57	26.16	0.00	0.00	6,700 ²	40	13	490	540	-	190	-	-	-	-	-	-
MW-2	11/26/2000	38.73	11.90	26.83	0.00	0.00	8,200 ²	21	9.5	400	1,100	-	120	-	-	-	-	-	-
MW-2	02/09/2001	38.73	12.20	26.53	0.00	0.00	11,200 ³	<50.0	<50.0	629	1,380	-	282	-	-	-	-	-	-
MW-2	05/11/2001	38.73	8.98	29.75	0.00	0.00	6,800 ²	39	19	370	1,100	-	67	-	-	-	-	-	-
MW-2	08/30/2001	38.73	12.90	25.83	0.00	0.00	17,000	67	<25	750	2,100	-	360	-	-	-	-	-	-
MW-2	11/21/2001	38.73	13.12	25.61	0.00	0.00	3,500	14	<5.0	100	51	-	610	-	-	-	-	-	-
MW-2	02/05/2002	38.73	8.35	30.38	0.00	0.00	10,000	5.5	<10	330	960	-	63	-	-	-	-	-	-
MW-2	04/01/2002	35.72	7.81	27.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	08/05/2002	35.72	15.91	19.81	0.00	0.00	8,800	18	8.2	220	630	-	220	-	-	-	-	-	-
MW-2	11/04/2002	35.72	14.14	21.58	0.00	0.00	14,000	28	10	670	1,600	-	440	-	-	-	-	-	-
MW-2	02/03/2003	35.72	10.00	25.72	0.00	0.00	7,200	6.2	2.7	140	430	-	50	-	-	-	-	-	-
MW-2	05/02/2003	35.72	8.31	27.41	0.00	0.00	12,000	<20	3.9	350	1,500	-	150	-	-	-	-	-	-
MW-2	08/01/2003 ⁷	35.72	12.66	23.06	0.00	0.00	12,000	14	4	330	730	140	-	-	-	-	-	-	-
MW-2	11/21/2003 ⁷	35.72	12.67	23.05	0.00	0.00	15,000	13	4	400	1,500	100	-	-	-	-	-	-	-
MW-2	02/10/2004 ⁷	35.72	5.20	30.52	0.00	0.00	17,000	9	3	420	1,600	72	-	-	-	-	-	-	-
MW-2	05/11/2004 ⁷	35.72	9.83	25.89	0.00	0.00	4,800	1	0.6	140	440	81	-	-	-	-	-	-	-
MW-2	08/10/2004 ⁷	35.72	11.81	23.91	0.00	0.00	11,000	8	1	340	1,100	35	-	-	-	-	-	-	-
MW-2	11/08/2004 ⁷	35.72	11.59	24.13	0.00	0.00	11,000	6	2	260	810	25	-	-	-	-	-	-	-
MW-2	01/11/2005	-	-	-	-	-	4,500	4	1	120	310	7	-	-	-	-	-	-	-
MW-2	02/21/2005 ⁷	35.72	7.74	27.98	0.00	0.00	16,000	5	2	500	1,700	10	-	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	05/10/2005 ⁷	35.72	8.11	27.61	0.00	0.00	8,400	3	<1	290	750	6	-	-	-	-	-	-	-
MW-2	08/12/2005 ⁷	35.72	11.32	24.40	0.00	0.00	5,800	4	0.7	150	370	30	-	-	-	-	-	-	-
MW-2	11/11/2005 ⁷	35.72	12.58	23.14	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	02/20/2006 ⁷	35.72	7.41	28.31	0.00	0.00	5,700	1	<0.5	190	380	0.7	-	-	-	-	-	-	-
MW-2	05/12/2006 ⁷	35.72	7.02	28.70	0.00	0.00	9,100	2	<0.5	210	440	1	-	-	-	-	-	-	-
MW-2	08/14/2006 ⁷	35.72	11.38	24.34	0.00	0.00	2,400	2	<0.5	42	98	20	-	-	-	-	-	-	-
MW-2	11/08/2006 ⁷	35.72	13.42	22.30	0.00	0.00	5,700	4	0.9	87	190	7	-	-	-	-	-	-	-
MW-2	02/07/2007 ⁷	35.72	11.98	23.74	0.00	0.00	5,500	9	2	85	120	7	-	-	-	-	-	-	-
MW-2	05/07/2007 ⁷	35.72	11.22	24.50	0.00	0.00	8,700	1	<0.5	150	330	5	-	-	-	-	-	-	-
MW-2	08/03/2007 ⁷	35.72	17.19	18.53	0.00	0.00	2,600	<0.5	<0.5	10	28	2	-	-	-	-	-	-	-
MW-2	10/12/2007 ⁷	35.72	14.89	20.83	0.00	0.00	9,300	7	0.6	100	120	4	-	-	-	-	-	-	-
MW-2	11/02/2007 ⁷	35.72	15.58	20.14	0.00	0.00	11,000	3	0.7	220	590	2	-	-	-	-	-	-	-
MW-2	12/07/2007 ⁷	35.72	19.29	16.43	0.00	0.00	9,500	3	<1	210	480	2	-	-	-	-	-	-	-
MW-2	02/01/2008 ⁷	35.72	8.76	26.96	0.00	0.00	8,100	2	0.7	190	440	4	-	-	-	-	-	-	-
MW-2	05/09/2008 ⁷	35.72	11.22	24.50	0.00	0.00	4,000	1	<0.5	98	110	3	-	-	-	-	-	-	-
MW-2	08/22/2008 ⁷	35.72	13.87	21.85	0.00	0.00	9,600 ¹²	1	<0.5	230	360	0.9	-	-	-	-	-	-	-
MW-2	11/26/2008 ⁷	35.72	17.48	18.24	0.00	0.00	13,000	9	1	340	570	3	-	-	-	-	-	-	-
MW-2	05/20/2009	35.72	10.70	25.02	0.00	0.00	12,000	3	<1	250	290	2J	-	<130	-	-	-	-	-
MW-2	08/26/2009	35.72	12.98	22.74	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/12/2009	35.72	12.13	23.59	0.00	0.00	14,000	3	0.8J	180	250	13	-	<50	-	-	-	-	-
MW-2	05/17/2010	35.72	11.96	23.76	0.00	0.00	3,300	<0.5	<0.5	36	34	3	-	<50	-	-	-	-	-
MW-2	08/26/2010 ¹¹	35.72	12.10	23.62	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/11/2010	35.72	13.72	22.00	0.00	0.00	9,000	6	1J	61	30	5	-	<50	-	-	-	-	-
MW-2	02/10/2011 ¹³	35.72	9.46	26.26	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	06/17/2011	35.72	8.68	27.04	0.00	0.00	9,300	3	<1	92	55	4	-	<100	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS						PRIMARY VOCS				ADDITIONAL VOCS				
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME			
	Units	ft	ft	ft-amsl	ft	gal	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	09/08/2011	35.72	9.69	26.03	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	12/16/2011	35.72	12.18	23.54	0.00	0.00	5,700	1	<0.5	36	19	<0.5	-	<50	-	-	-	-	-		
MW-2	03/02/2012 ¹³	35.72	12.09	23.63	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	06/08/2012	35.72	11.08	24.64	0.00	0.00	5,600	<5	<5	48	24	<5	-	<500	-	-	-	-	-		
MW-2	09/14/2012 ¹³	35.72	13.57	22.15	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	12/21/2012	35.72	8.52	27.20	0.00	0.00	3,100	<5	<5	23	12	<5	-	<500	-	-	-	-	-		
MW-2	04/01/2013 ¹³	35.72	11.90	23.82	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	06/28/2013	35.72	13.61	22.11	0.00	0.00	6,700	2	<0.5	36	9	<0.5	-	<50	-	-	-	-	-		
MW-2	09/20/2013 ¹³	35.72	14.02	21.70	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	12/30/2013	35.72	14.68	21.04	0.00	0.00	7,700	4	0.8 J	31	6	0.7 J	-	<50	-	-	-	-	-		
MW-2	03/31/2014 ¹³	35.72	11.59	24.13	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-2	06/30/2014	35.72	13.12	22.60	0.00	0.00	8,200	2	0.6 J	59	9	1	-	<50	-	-	-	-	-		
MW-3	02/08/1998	39.51	14.60	24.91	0.00	0.00	94,000	12,000	4,400	2,000	10,000	-	8,000	-	-	-	-	-	-		
MW-3	06/16/1998	39.51	13.98	25.53	0.00	0.00	38,000	5,600	1,400	1,200	4,700	-	4,600 ¹ /6,300	-	-	-	-	-	-		
MW-3	07/29/1998	39.51	17.37	22.14	0.00	0.00	58,000	4,100	700	1,300	4,200	-	4,100	-	-	-	-	-	-		
MW-3	08/13/1998	39.51	18.22	21.29	0.00	0.00	43,000	6,800	1,900	1,600	6,800	-	2,300	-	-	-	-	-	-		
MW-3	11/24/1998	39.51	20.45	19.06	0.00	0.00	40,000	5,000	800	1,600	6,800	-	6,000/4,400 ¹	-	-	-	-	-	-		
MW-3	02/03/1999	39.51	17.48	22.03	0.00	0.00	47,000	7,100	1,600	1,900	9,000	-	5,000	-	-	-	-	-	-		
MW-3	06/07/1999	39.51	15.75	23.76	0.00	0.00	27,000	2,500	540	1,200	3,900	-	2,800	-	-	-	-	-	-		
MW-3	09/07/1999	39.51	19.71	19.80	0.00	0.00	44,000	3,930	1,170	1,760	7,130	-	3,440	-	-	-	-	-	-		
MW-3	10/27/1999	39.51	20.42	19.09	0.00	0.00	28,200	2,030	620	1,260	5,080	-	1,710	-	-	-	-	-	-		
MW-3	02/08/2000	39.51	17.75	21.76	0.00	0.00	25,300	2,000	668	1,210	5,330	-	1,760	-	-	-	-	-	-		
MW-3	05/05/2000	39.51	15.64	23.87	0.00	0.00	27,000 ²	2,600	960	1,500	5,200	-	2,500	-	-	-	-	-	-		
MW-3	07/28/2000	39.51	18.23	21.28	0.00	0.00	7,400 ²	950	360	840	3,200	-	1,700	-	-	-	-	-	-		

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	11/26/2000	39.51	19.38	20.13	0.00	0.00	20,000 ²	1,800	690	1,400	5,500	-	1,600	-	-	-	-	-	-
MW-3	02/09/2001	39.51	17.72	21.79	0.00	0.00	31,200 ³	1,980	<50.0	1,770	7,220	-	2,170	-	-	-	-	-	-
MW-3	05/11/2001	39.51	14.65	24.86	0.00	0.00	18,000 ²	3,000	780	1,600	5,500	-	1,800	-	-	-	-	-	-
MW-3	08/30/2001	39.51	19.35	20.16	0.00	0.00	9,400	570	180	610	1,900	-	880	-	-	-	-	-	-
MW-3	11/21/2001	39.51	20.04	19.47	0.00	0.00	29,000	1,100	450	1,500	6,100	-	1,200	-	-	-	-	-	-
MW-3	02/05/2002	39.51	14.09	25.42	0.00	0.00	16,000	820	210	830	2,400	-	1,100	-	-	-	-	-	-
MW-3	04/01/2002	36.53	12.21	24.32	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/05/2002	36.53	14.31	22.22	0.00	0.00	11,000	310	92	380	820	-	830	-	-	-	-	-	-
MW-3	11/04/2002	36.53	19.03	17.50	0.00	0.00	32,000	1,900	540	1,800	5,900	-	1,500	-	-	-	-	-	-
MW-3	02/03/2003	36.53	13.95	22.58	0.00	0.00	19,000	1,100	240	920	2,900	-	1,100	-	-	-	-	-	-
MW-3	05/02/2003	36.53	13.07	23.46	0.00	0.00	18,000	1,200	270	1,100	2,500	-	1,400	-	-	-	-	-	-
MW-3	08/01/2003 ⁷	36.53	16.31	20.22	0.00	0.00	7,700	300	79	410	820	780	-	-	-	-	-	-	-
MW-3	11/21/2003 ⁷	36.53	17.89	18.64	0.00	0.00	7,600	270	100	470	1,300	700	-	-	-	-	-	-	-
MW-3	02/10/2004 ⁷	36.53	13.06	23.47	0.00	0.00	3,800	250	28	170	300	650	-	-	-	-	-	-	-
MW-3	05/11/2004 ⁷	36.53	13.73	22.80	0.00	0.00	1,200	60	9	76	62	530	-	-	-	-	-	-	-
MW-3	08/10/2004 ⁷	36.53	16.09	20.44	0.00	0.00	1,600	70	9	86	62	500	-	-	-	-	-	-	-
MW-3	11/08/2004 ⁷	36.53	15.11	21.42	0.00	0.00	4,800	280	37	260	400	760	-	-	-	-	-	-	-
MW-3	02/21/2005 ⁷	36.53	11.45	25.08	0.00	0.00	450	0.8	<0.5	0.7	<0.5	200	-	-	-	-	-	-	-
MW-3	05/10/2005 ⁷	36.53	10.26	26.27	0.00	0.00	220	<0.5	<0.5	<0.5	<0.5	250	-	-	-	-	-	-	-
MW-3	08/12/2005 ⁷	36.53	16.42	20.11	0.00	0.00	2,800	94	32	150	390	370	-	-	-	-	-	-	-
MW-3	11/11/2005 ⁷	36.53	17.59	18.94	0.00	0.00	3,800	140	46	230	430	440	-	-	-	-	-	-	-
MW-3	02/20/2006 ⁷	36.53	11.92	24.61	0.00	0.00	390	4	0.9	5	4	290	-	-	-	-	-	-	-
MW-3	05/12/2006 ⁷	36.53	9.38	27.15	0.00	0.00	1,100	2	<0.5	3	2	91	-	-	-	-	-	-	-
MW-3	08/14/2006 ⁷	36.53	14.68	21.85	0.00	0.00	170	<0.5	<0.5	<0.5	0.8	21	-	-	-	-	-	-	-
MW-3	11/08/2006 ⁷	36.53	17.43	19.10	0.00	0.00	1,900	83	17	120	130	100	-	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	M/TBE by SW8260	M/TBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/07/2007 ⁷	36.53	15.07	21.46	0.00	0.00	7,400	340	42	310	530	170	-	-	-	-	-	-	-
MW-3	05/07/2007 ⁷	36.53	13.32	23.21	0.00	0.00	1,200	7	<0.5	5	6	17	-	-	-	-	-	-	-
MW-3	08/03/2007 ⁷	36.53	17.05	19.48	0.00	0.00	740	44	2	12	9	77	-	-	-	-	-	-	-
MW-3	10/12/2007 ⁷	36.53	18.70	17.83	0.00	0.00	5,800	250	28	240	290	170	-	-	-	-	-	-	-
MW-3	11/02/2007 ⁷	36.53	18.81	17.72	0.00	0.00	2,400	160	8	33	19	140	-	-	-	-	-	-	-
MW-3	12/07/2007 ⁷	36.53	18.65	17.88	0.00	0.00	2,100	180	11	41	33	160	-	-	-	-	-	-	-
MW-3	02/01/2008 ⁷	36.53	14.59	21.94	0.00	0.00	3,600	570	45	81	140	180	-	-	-	-	-	-	-
MW-3	05/09/2008 ⁷	36.53	14.75	21.78	0.00	0.00	460	49	3	5	2	35	-	-	-	-	-	-	-
MW-3	08/22/2008 ⁷	36.53	17.98	18.55	0.00	0.00	5,400	200	16	160	150	84	-	-	-	-	-	-	-
MW-3	11/26/2008 ⁷	36.53	19.41	17.12	0.00	0.00	2,600	80	4	20	7	55	-	-	-	-	-	-	-
MW-3	05/20/2009	36.53	14.50	22.03	0.00	0.00	6,600	510	33	200	170	130	-	<50	-	-	-	-	-
MW-3	08/26/2009	36.53	18.84	17.69	0.00	0.00	7,900	290	18	180	110	120	-	<50	-	-	-	-	-
MW-3	02/01/2010	36.53	13.10	23.43	0.00	0.00	9,700	1,600	65	230	220	260	-	<250	-	-	-	-	-
MW-3	08/26/2010	36.53	14.90	21.63	0.00	0.00	15,000	1,400	84	670	710	210	-	<100	-	-	-	-	-
MW-3	11/11/2010 ¹¹	36.53	17.08	19.45	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/10/2011	36.53	12.88	23.65	0.00	0.00	6,700	710	35	270	230	130	-	<100	-	-	-	-	-
MW-3	06/17/2011 ¹¹	36.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/08/2011 ¹¹	36.53	14.93	21.60	0.00	0.00	7,700	490	29	260	190	96	-	<500	-	-	-	-	-
MW-3	12/16/2011 ¹¹	36.53	16.06	20.47	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/02/2012	36.53	15.98	20.55	0.00	0.00	7,500	490	28	240	150	89	-	<500	-	-	-	-	-
MW-3	06/08/2012 ¹¹	36.53	13.52	23.01	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/14/2012	36.53	17.24	19.29	0.00	0.00	7,600	330	15	140	54	63	-	<500	110	<5	<5	16	-
MW-3	12/21/2012 ¹¹	36.53	13.32	23.21	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	04/01/2013	36.53	15.01	21.52	0.00	0.00	8,000	490	27	230	140	73	-	<50	-	-	-	-	-
MW-3	06/28/2013 ¹¹	36.53	16.72	19.81	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	09/20/2013	36.53	18.55	17.98	0.00	0.00	11,000	610	31	270	140	81	-	<50	-	-	-	-	-
MW-3	12/30/2013 ¹³	36.53	19.41	17.12	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/31/2014	36.53	15.81	20.72	0.00	0.00	13,000	1,100	50	350	240	170	-	<100	-	-	-	-	-
MW-3	06/30/2014¹³	36.53	16.82	19.71	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	02/02/1999	40.24	13.17	27.07	0.00	0.00	<50	0.52	<0.5	<0.5	<0.5	-	6.0	-	-	-	-	-	-
MW-4	06/07/1999	40.24	16.41	23.83	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
MW-4	09/07/1999	40.24	20.90	19.34	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	<5.0	-	-	-	-	-	-
MW-4	10/27/1999	40.24	21.59	18.65	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
MW-4	02/08/2000	40.24	17.16	23.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	<5.0	-	-	-	-	-	-
MW-4	05/05/2000	40.24	16.02	24.22	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-4	07/28/2000	40.24	19.12	21.12	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-4	11/26/2000	40.24	19.92	20.32	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-4	02/09/2001	40.24	17.45	22.79	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	-	<2.50	-	-	-	-	-	-
MW-4	05/11/2001	40.24	15.02	25.22	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-4	08/30/2001	40.24	20.33	19.91	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-4	11/21/2001	40.24	19.75	20.49	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	02/05/2002	40.24	14.06	26.18	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	04/01/2002	37.29	12.06	25.23	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/05/2002	37.29	17.05	20.24	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	11/04/2002	37.29	19.73	17.56	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	02/03/2003	37.29	14.05	23.24	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	05/02/2003	37.29	12.85	24.44	0.00	0.00	<50	<0.5	<0.5	<0.5	<1.5	-	<2.5	-	-	-	-	-	-
MW-4	08/01/2003 ⁷	37.29	16.94	20.35	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/21/2003 ⁷	37.29	18.15	19.14	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/10/2004 ⁷	37.29	13.02	24.27	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	-	-	-	-	-	-
MW-4	05/11/2004 ⁷	37.29	14.15	23.14	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	08/10/2004 ⁷	37.29	16.47	20.82	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/08/2004 ⁷	37.29	14.86	22.43	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	02/21/2005 ⁷	37.29	10.76	26.53	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	05/10/2005 ⁷	37.29	10.25	27.04	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	-	-	-	-	-	-
MW-4	08/12/2005 ⁷	37.29	15.25	22.04	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/11/2005 ⁷	37.29	18.36	18.93	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	02/20/2006 ⁷	37.29	11.59	25.70	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	-	-	-	-	-	-
MW-4	05/12/2006 ⁷	37.29	9.87	27.42	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	-
MW-4	08/14/2006 ⁷	37.29	15.35	21.94	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/08/2006 ⁷	37.29	18.28	19.01	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	02/07/2007 ⁷	37.29	15.40	21.89	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	05/07/2007 ⁷	37.29	13.56	23.73	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	08/03/2007 ⁷	37.29	17.70	19.59	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	10/12/2007 ⁷	37.29	19.48	17.81	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/02/2007 ⁷	37.29	19.41	17.88	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	12/07/2007 ⁷	37.29	19.45	17.84	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	02/01/2008 ⁷	37.29	13.15	24.14	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	05/09/2008 ⁷	37.29	14.98	22.31	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	08/22/2008 ⁷	37.29	18.67	18.62	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	11/26/2008 ⁷	37.29	20.03	17.26	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-4	05/20/2009	37.29	14.89	22.40	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	08/26/2009	37.29	19.29	18.00	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	11/12/2009	37.29	17.70	19.59	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS						ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	02/01/2010	37.29	12.57	24.72	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	05/17/2010	37.29	11.15	26.14	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	08/26/2010	37.29	15.50	21.79	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	11/11/2010	37.29	17.34	19.95	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	02/10/2011	37.29	13.01	24.28	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	06/17/2011	37.29	12.07	25.22	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	09/08/2011	37.29	15.75	21.54	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	12/16/2011	37.29	16.80	20.49	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	06/08/2012	37.29	14.30	22.99	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	06/08/2012	37.29	14.30	22.99	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	09/14/2012	37.29	18.10	19.19	0.00	0.00	<50	<0.5	<0.5	<0.5	2	<0.5	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-4	12/21/2012	37.29	13.33	23.96	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	04/01/2013	37.29	15.67	21.62	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	06/28/2013	37.29	17.47	19.82	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	09/20/2013	37.29	19.26	18.03	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	12/30/2013	37.29	20.51	16.78	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	03/31/2014	37.29	15.50	21.79	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-4	06/30/2014	37.29	17.51	19.78	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	02/02/1999	40.37	18.80	21.57	0.00	0.00	72	2.7	<0.5	<0.5	<0.5	-	11	-	-	-	-	-	-
MW-5	06/07/1999	40.37	16.98	23.39	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
MW-5	09/07/1999	40.37	21.13	19.24	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	-	6.92	-	-	-	-	-	-
MW-5	10/27/1999	40.37	21.92	18.45	0.00	0.00	<50	2.39	<0.5	<0.5	<0.5	-	21.3	-	-	-	-	-	-
MW-5	02/08/2000	40.37	18.98	21.39	0.00	0.00	<50	10.6	<0.5	<0.5	<0.5	-	21.7	-	-	-	-	-	-
MW-5	05/05/2000	40.37	16.89	23.48	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	3.8	-	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	07/28/2000	40.37	19.49	20.88	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-5	11/26/2000	40.37	20.69	19.68	0.00	0.00	<50	0.57	<0.50	<0.50	<0.50	-	15	-	-	-	-	-	-
MW-5	02/09/2001	40.37	18.87	21.50	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	-	9.11	-	-	-	-	-	-
MW-5	05/11/2001	40.37	15.90	24.47	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
MW-5	08/30/2001	40.37	20.61	19.76	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	-	9.5	-	-	-	-	-	-
MW-5	11/21/2001	40.37	21.04	19.33	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	7.3	-	-	-	-	-	-
MW-5	02/05/2002	40.37	15.21	25.16	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-5	04/01/2002	37.40	13.45	23.95	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/05/2002	37.40	17.54	19.86	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	2.7	-	-	-	-	-	-
MW-5	11/04/2002	37.40	20.07	17.33	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	6.3	-	-	-	-	-	-
MW-5	02/03/2003	37.40	15.03	22.37	0.00	0.00	<50	<0.50	0.60	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
MW-5	05/02/2003	37.40	13.96	23.44	0.00	0.00	<50	<0.5	<0.5	<0.5	<1.5	-	<2.5	-	-	-	-	-	-
MW-5	08/01/2003 ⁷	37.40	17.40	20.00	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	11/21/2003 ⁷	37.40	18.57	18.83	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	02/10/2004 ⁷	37.40	14.14	23.26	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	05/11/2004 ⁷	37.40	14.70	22.70	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	08/10/2004 ⁷	37.40	17.08	20.32	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	11/08/2004 ⁷	37.40	15.98	21.42	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	02/21/2005	37.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	05/10/2005 ⁷	37.40	11.88	25.52	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	-	-	-	-	-	-
MW-5	08/12/2005 ⁷	37.40	15.63	21.77	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	11/11/2005 ⁷	37.40	18.68	18.72	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	-
MW-5	02/20/2006 ⁷	37.40	12.57	24.83	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	05/12/2006 ⁷	37.40	11.06	26.34	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.9	-	-	-	-	-	-	-
MW-5	08/14/2006 ⁷	37.40	15.73	21.67	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.9	-	-	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	11/08/2006 ⁷	37.40	18.51	18.89	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	-	-	-	-	-	-
MW-5	02/07/2007 ⁷	37.40	16.02	21.38	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.6	-	-	-	-	-	-	-
MW-5	05/07/2007 ⁷	37.40	14.32	23.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	08/03/2007 ⁷	37.40	18.08	19.32	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.6	-	-	-	-	-	-	-
MW-5	10/12/2007 ⁷	37.40	19.74	17.66	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	-
MW-5	11/02/2007 ⁷	37.40	19.78	17.62	0.00	0.00	61	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	12/07/2007 ⁷	37.40	19.71	17.69	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	02/01/2008 ⁷	37.40	14.34	23.06	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	05/09/2008 ⁷	37.40	15.62	21.78	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	08/22/2008 ⁷	37.40	18.96	18.44	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
MW-5	11/26/2008 ⁷	37.40	20.35	17.05	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.9	-	-	-	-	-	-	-
MW-5	05/20/2009	37.40	15.56	21.84	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	08/26/2009	37.40	19.56	17.84	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.5 J	-	<50	-	-	-	-	-
MW-5	11/12/2009	37.40	18.50	18.90	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	02/01/2010	37.40	14.41	22.99	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	05/17/2010	37.40	13.00	24.40	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	08/26/2010	37.40	15.90	21.50	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	11/11/2010	37.40	18.05	19.35	0.00	0.00	68 J	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	02/10/2011	37.40	13.70	23.70	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	06/17/2011	37.40	13.37	24.03	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	09/08/2011	37.40	16.15	21.25	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	12/16/2011	37.40	17.20	20.20	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	03/02/2012	37.40	17.41	19.99	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	06/08/2012	37.40	15.20	22.20	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	09/14/2012	37.40	18.40	19.00	0.00	0.00	130	<0.5	<0.5	4	22	<0.5	-	<50	<2	<0.5	<0.5	<0.5	<0.5

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	12/21/2012	37.40	14.62	22.78	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	04/01/2013	37.40	16.10	21.30	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	06/28/2013	37.40	17.77	19.63	0.00	0.00	150	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	09/20/2013	37.40	19.59	17.81	0.00	0.00	170	<0.5	<0.5	<0.5	<0.5	0.5 J	-	<50	-	-	-	-	-
MW-5	12/30/2013	37.40	20.80	16.60	0.00	0.00	170	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	03/31/2014	37.40	16.60	20.80	0.00	0.00	54 J	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-5	06/30/2014	37.40	18.12	19.28	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
MW-6	02/02/1999	39.84	18.48	21.36	0.00	0.00	14,000	5,600	<50	150	160	-	<250	-	-	-	-	-	-
MW-6	06/07/1999	39.84	16.45	23.39	0.00	0.00	1,500	1,100	33	25	34	-	200	-	-	-	-	-	-
MW-6	09/07/1999	39.84	20.49	19.35	0.00	0.00	6,550	2,940	81.5	177	84	-	865	-	-	-	-	-	-
MW-6	10/27/1999	39.84	21.23	18.61	0.00	0.00	3,680	1,240	29.6	115	14.9	-	735	-	-	-	-	-	-
MW-6	02/08/2000	39.84	18.40	21.44	0.00	0.00	17,300	8,920	<100	378	211	-	2,610	-	-	-	-	-	-
MW-6	05/05/2000	39.84	16.36	23.48	0.00	0.00	4,200 ²	1,900	98	170	290	-	1,300	-	-	-	-	-	-
MW-6	07/28/2000	39.84	18.94	20.90	0.00	0.00	1,200 ²	660	30	83	36	-	650	-	-	-	-	-	-
MW-6	11/26/2000	39.84	20.13	19.71	0.00	0.00	7,600 ²	4,300	63	360	110	-	2,000	-	-	-	-	-	-
MW-6	02/09/2001	39.84	18.40	21.44	0.00	0.00	18,200 ³	7,090	<100	457	169	-	2,930	-	-	-	-	-	-
MW-6	05/11/2001	39.84	15.45	24.39	0.00	0.00	2,600 ²	2,300	31	88	40	-	990	-	-	-	-	-	-
MW-6	08/30/2001	39.84	20.02	19.82	0.00	0.00	2,500	1,600	50	160	100	-	1,900	-	-	-	-	-	-
MW-6	11/21/2001	39.84	20.62	19.22	0.00	0.00	25,000	8,800	150	620	330	-	2,900	-	-	-	-	-	-
MW-6	02/05/2002	39.84	15.80	24.04	0.00	0.00	1,400	400	6.8	27	20	-	480	-	-	-	-	-	-
MW-6	04/01/2002	36.90	13.82	23.08	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	08/05/2002	36.90	17.05	19.85	0.00	0.00	1,200	300	5.1	11	3.7	-	250	-	-	-	-	-	-
MW-6	11/04/2002	36.90	19.56	17.34	0.00	0.00	7,500	2,000	29	140	39	-	1,300	-	-	-	-	-	-
MW-6	02/03/2003	36.90	14.62	22.28	0.00	0.00	630	160	<5.0	9.2	2.7	-	260	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS						
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME		
	Units	ft	ft	ft-amsl	ft	gal	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	05/02/2003	36.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	08/01/2003 ⁷	36.90	16.88	20.02	0.00	0.00	1,500	400	3	14	3	540	-	-	-	-	-	-	-	-
MW-6	11/21/2003 ⁷	36.90	18.41	18.49	0.00	0.00	4,400	1,300	12	98	18	540	-	-	-	-	-	-	-	-
MW-6	02/10/2004 ⁷	36.90	13.70	23.20	0.00	0.00	430	110	1	4	0.7	150	-	-	-	-	-	-	-	-
MW-6	05/11/2004 ⁷	36.90	14.27	22.63	0.00	0.00	95	11	<0.5	1	0.6	120	-	-	-	-	-	-	-	-
MW-6	08/10/2004 ⁷	36.90	16.64	20.26	0.00	0.00	430	46	<0.5	3	<0.5	140	-	-	-	-	-	-	-	-
MW-6	11/08/2004 ⁷	36.90	15.63	21.27	0.00	0.00	750	50	<0.5	2	<0.5	81	-	-	-	-	-	-	-	-
MW-6	02/21/2005 ⁷	36.90	11.43	25.47	0.00	0.00	130	8	<0.5	<0.5	<0.5	60	-	-	-	-	-	-	-	-
MW-6	05/10/2005 ⁷	36.90	11.41	25.49	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	08/12/2005 ⁷	36.90	15.08	21.82	0.00	0.00	75	<0.5	<0.5	<0.5	<0.5	82	-	-	-	-	-	-	-	-
MW-6	11/11/2005 ⁷	36.90	18.16	18.74	0.00	0.00	1,100	270	12	19	46	350	-	-	-	-	-	-	-	-
MW-6	02/20/2006 ⁷	36.90	12.15	24.75	0.00	0.00	1,100	250	3	22	9	130	-	-	-	-	-	-	-	-
MW-6	05/12/2006 ⁷	36.90	10.32	26.58	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	84	-	-	-	-	-	-	-	-
MW-6	08/14/2006 ⁷	36.90	15.21	21.69	0.00	0.00	51	<0.5	<0.5	<0.5	<0.5	75	-	-	-	-	-	-	-	-
MW-6	11/08/2006 ⁷	36.90	17.97	18.93	0.00	0.00	200	3	<0.5	<0.5	<0.5	27	-	-	-	-	-	-	-	-
MW-6	02/07/2007 ⁷	36.90	15.60	21.30	0.00	0.00	1,500	120	0.8	5	1	54	-	-	-	-	-	-	-	-
MW-6	05/07/2007 ⁷	36.90	14.78	22.12	0.00	0.00	740	98	0.5	2	2	31	-	-	-	-	-	-	-	-
MW-6	08/03/2007 ⁷	36.90	17.57	19.33	0.00	0.00	1,600	410	4	2	3	80	-	-	-	-	-	-	-	-
MW-6	10/12/2007 ⁷	36.90	19.20	17.70	0.00	0.00	1,100	130	0.9	0.9	<0.5	79	-	-	-	-	-	-	-	-
MW-6	11/02/2007 ⁷	36.90	19.43	17.47	0.00	0.00	1,500	240	1	0.7	0.5	70	-	-	-	-	-	-	-	-
MW-6	12/07/2007 ⁷	36.90	19.11	17.79	0.00	0.00	770	84	<0.5	<0.5	<0.5	60	-	-	-	-	-	-	-	-
MW-6	02/01/2008 ⁷	36.90	14.03	22.87	0.00	0.00	650	89	<0.5	1	0.7	24	-	-	-	-	-	-	-	-
MW-6	05/09/2008 ⁷	36.90	15.22	21.68	0.00	0.00	680	87	<0.5	<0.5	<0.5	19	-	-	-	-	-	-	-	-
MW-6	08/22/2008 ⁷	36.90	18.46	18.44	0.00	0.00	950	43	<0.5	<0.5	<0.5	38	-	-	-	-	-	-	-	-
MW-6	11/26/2008 ⁷	36.90	19.87	17.03	0.00	0.00	1,500	190	1	0.6	0.5	71	-	-	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	05/20/2009	36.90	15.03	21.87	0.00	0.00	580	23	<0.5	0.7 J	<0.5	11	-	<50	-	-	-	-	-
MW-6	08/26/2009	36.90	19.00	17.90	0.00	0.00	1,100	88	0.8 J	0.6 J	<0.5	25	-	<50	-	-	-	-	-
MW-6	11/12/2009	36.90	18.19	18.71	0.00	0.00	980	95	0.8 J	1	1	20	-	<50	-	-	-	-	-
MW-6	02/01/2010	36.90	13.30	23.60	0.00	0.00	530	28	<0.5	0.9 J	<0.5	6	-	<50	-	-	-	-	-
MW-6	05/17/2010	36.90	11.67	25.23	0.00	0.00	450	14	<0.5	1	<0.5	4	-	<50	-	-	-	-	-
MW-6	08/26/2010	36.90	15.42	21.48	0.00	0.00	860	29	<0.5	2	<0.5	4	-	<50	-	-	-	-	-
MW-6	11/11/2010 ¹²	36.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	02/10/2011	36.90	13.00	23.90	0.00	0.00	370	10	<0.5	<0.5	<0.5	3	-	<50	-	-	-	-	-
MW-6	06/17/2011	36.90	12.35	24.55	0.00	0.00	690	22	<0.5	2	<0.5	4	-	<50	-	-	-	-	-
MW-6	09/08/2011	36.90	15.68	21.22	0.00	0.00	880	92	<0.5	2	<0.5	6	-	<50	-	-	-	-	-
MW-6	12/16/2011	36.90	16.63	20.27	0.00	0.00	3,200	620	4	10	8	11	-	<50	-	-	-	-	-
MW-6	03/02/2012	36.90	16.55	20.35	0.00	0.00	2,900	510	<5	<5	5 J	13	-	<500	-	-	-	-	-
MW-6	06/08/2012	36.90	14.03	22.87	0.00	0.00	3,000	750	<5	<5	<5	12	-	<500	-	-	-	-	-
MW-6	09/14/2012	36.90	17.84	19.06	0.00	0.00	4,300	930	<5	<5	<5	10	-	<500	81	<5	<5	<5	<5
MW-6	12/21/2012	36.90	13.88	23.02	0.00	0.00	2,200	360	<5	<5	<5	28	-	<500	-	-	-	-	-
MW-6	04/01/2013	36.90	15.58	21.32	0.00	0.00	2,100	520	2	3	2	21	-	<50	-	-	-	-	-
MW-6	06/28/2013	36.90	17.30	19.60	0.00	0.00	1,600	130	<0.5	<0.5	<0.5	5	-	<50	-	-	-	-	-
MW-6	09/20/2013	36.90	19.07	17.83	0.00	0.00	3,100	680	3	4	3	15	-	<50	-	-	-	-	-
MW-6	12/30/2013 ¹⁴	36.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/31/2014	36.90	16.10	20.80	0.00	0.00	2,000	220	2	4	2	20	-	<50	-	-	-	-	-
MW-6	06/30/2014	36.90	17.41	19.49	0.00	0.00	1,400	100	0.6 J	2	<0.5	14	-	<50	-	-	-	-	-
MW-7	02/21/2005 ⁷	36.84	10.41	26.43	0.00	0.00	7,600	2,200	6	210	920	53	-	<100	130	<1	<1	<1	<1
MW-7	05/10/2005 ⁷	36.84	9.59	27.25	0.00	0.00	3,900	700	<0.5	<0.5	650	77	-	<50	140	<0.5	<0.5	<0.5	<0.5
MW-7	08/12/2005 ⁷	36.84	12.83	24.01	0.00	0.00	18,000	7,300	12	1,100	2,500	80	-	<500	280	<5	<5	<5	<5

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	11/11/2005 ⁷	36.84	16.64	20.20	0.00	0.00	39,000	11,000	38	1,700	2,900	100	-	<1,000	340	<10	<10	<10	<10
MW-7	02/20/2006 ⁷	36.84	10.39	26.45	0.00	0.00	17,000	4,400	18	470	1,500	62	-	<500	200	<5	<5	<5	<5
MW-7	05/12/2006 ⁷	36.84	8.79	28.05	0.00	0.00	15,000	5,100	12	370	880	73	-	<500	200	<5	<5	<5	<5
MW-7	08/14/2006 ⁷	36.84	13.88	22.96	0.00	0.00	30,000	8,100	18	1,500	3,600	74	-	<1,000	280	<10	<10	<10	<10
MW-7	11/08/2006 ⁷	36.84	16.87	19.97	0.00	0.00	39,000	10,000	28	1,400	2,300	89	-	<1,000	330	<10	<10	<10	<10
MW-7	02/07/2007 ⁷	36.84	14.43	22.41	0.00	0.00	43,000	9,400	51	1,800	4,400	80	-	<500	280	<5	<5	<5	<5
MW-7	05/07/2007 ⁷	36.84	12.57	24.27	0.00	0.00	50,000	8,800	35	1,700	3,700	72	-	<1,000	240	<10	<10	<10	<10
MW-7	08/03/2007 ⁷	36.84	16.10	20.74	0.00	0.00	57,000	12,000	41	2,400	4,400	84	-	<2,500	300	<25	<25	<25	<25
MW-7	10/12/2007 ⁷	36.84	18.16	18.68	0.00	0.00	15,000	2,300	63	270	730	58	-	<1,000	290	<10	<10	<10	<10
MW-7	11/02/2007 ⁷	36.84	18.01	18.83	0.00	0.00	21,000	5,000	120	820	2,300	59	-	<500	280	<5	<5	<5	<5
MW-7	12/07/2007	36.84	18.92	17.92	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	02/01/2008	36.84	12.78	24.06	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/09/2008 ⁷	36.84	13.98	22.86	0.00	0.00	24,000	4,600	99	1,000	3,400	57	-	<250	240	<3	<3	<3	<3
MW-7	08/22/2008 ⁷	36.84	17.19	19.65	0.00	0.00	32,000	9,500	240	1,900	4,800	76	-	<1,000	270	<10	<10	<10	<10
MW-7	11/26/2008 ⁷	36.84	19.01	17.83	0.00	0.00	39,000	9,700	840	1,600	5,700	62	-	<1,300	280	<13	<13	<13	<13
MW-7	05/20/2009	36.84	13.71	23.13	0.00	0.00	24,000	5,400	190	810	2,800	66	-	<250	260	<3	<3	<3	<3
MW-7	08/26/2009	36.84	19.00	17.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	11/12/2009	36.84	16.43	20.41	0.00	0.00	19,000	5,900	190	540	1,800	57	-	<500	240	<5	<5	<5	<5
MW-7	05/17/2010	36.84	10.30	26.54	0.00	0.00	13,000	3,600	63	310	1,300	58	-	<250	220	<3	<3	<3	<3
MW-7	08/26/2010 ¹¹	36.84	14.40	22.44	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	11/11/2010	36.84	16.50	20.34	0.00	0.00	16,000	7,300	140	720	2,400	64	-	<500	280	<5	<5	<5	<5
MW-7	02/10/2011 ¹³	36.84	12.16	24.68	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/17/2011	36.84	11.25	25.59	0.00	0.00	12,000	3,800	22	460	1,600	56	-	<250	120	<3	<3	<3	<3
MW-7	09/08/2011	36.84	14.65	22.19	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/16/2011	36.84	17.36	19.48	0.00	0.00	35,000	8,100	370	1,000	3,900	78	-	<500	300	<5	<5	<5	<5

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	03/02/2012 ¹³	36.84	15.42	21.42	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/08/2012	36.84	13.10	23.74	0.00	0.00	19,000	6,000	180	310	1,200	56	-	<500	-	-	-	-	-
MW-7	09/14/2012 ¹³	36.84	16.91	19.93	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/21/2012	36.84	12.19	24.65	0.00	0.00	21,000	5,300	160	530	2,200	55	-	<2,500	240 J	<25	<25	<25	<25
MW-7	04/01/2013 ¹³	36.84	14.64	22.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/28/2013	36.84	16.10	20.74	0.00	0.00	20,000	6,900	200	420	1,700	81	-	<250	240	<3	<3	<3	<3
MW-7	09/20/2013 ¹³	36.84	17.72	19.12	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/30/2013	36.84	19.10	17.74	0.00	0.00	14,000	4,800	220	210	1,300	55	-	<500	-	-	-	-	-
MW-7	03/31/2014 ¹³	36.84	14.64	22.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/30/2014	36.84	15.92	20.92	0.00	0.00	28,000	6,300	290	790	3,000	53	-	<500	-	-	-	-	-
MW-8	04/01/2002 ⁵	37.21	11.10	26.11	0.00	0.00	1,200	8.6	<0.50	2.5	2.5	-	<2.5/<2 ⁵	-	<100	<2	<2	<2	<2
MW-8	08/05/2002	37.21	16.14	21.07	0.00	0.00	560	11	<0.50	<0.50	<1.5	-	<2.5/<2 ⁵	-	<100	<2	<2	<2	<2
MW-8	11/04/2002	37.21	18.97	18.24	0.00	0.00	780	5.1	<0.50	1.1	1.9	-	<2 ⁵ / <lt;2.5< td=""> <td>-</td> <td><100</td> <td><2</td> <td><2</td> <td><2</td> <td><2</td> </lt;2.5<>	-	<100	<2	<2	<2	<2
MW-8	02/03/2003	37.21	13.21	24.00	0.00	0.00	230	3.7	<0.50	0.54	<1.5	-	<0.6 ⁵ / <lt;10< td=""> <td>-</td> <td><5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> </lt;10<>	-	<5	<0.5	<0.5	<0.5	<0.5
MW-8	05/02/2003	37.21	12.12	25.09	0.00	0.00	180	2.5	<0.5	<0.5	<1.5	-	<0.5 ⁵ / <lt;2.5< td=""> <td>-</td> <td><5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> </lt;2.5<>	-	<5	<0.5	<0.5	<0.5	<0.5
MW-8	08/01/2003 ⁷	37.21	16.11	21.10	0.00	0.00	220	2	<0.5	<0.5	<0.5	0.8	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	11/21/2003 ⁷	37.21	17.17	20.04	0.00	0.00	140	<0.5	<0.5	<0.5	<0.5	0.7	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	02/10/2004 ⁷	37.21	12.13	25.08	0.00	0.00	150	2	<0.5	<0.5	<0.5	0.8	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	05/11/2004 ⁷	37.21	13.47	23.74	0.00	0.00	86	4	<0.5	<0.5	<0.5	1	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	08/10/2004 ⁷	37.21	15.65	21.56	0.00	0.00	80	<0.5	<0.5	<0.5	<0.5	0.8	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	11/08/2004 ⁷	37.21	13.98	23.23	0.00	0.00	110	<0.5	<0.5	<0.5	<0.5	1	-	<50	7	<0.5	<0.5	<0.5	<0.5
MW-8	02/21/2005 ⁷	37.21	10.09	27.12	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	05/10/2005 ⁷	37.21	10.60	26.61	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	08/12/2005 ⁷	37.21	12.58	24.63	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	<5	<0.5	<0.5	<0.5	<0.5

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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-8	11/11/2005 ⁷	37.21	17.41	19.80	0.00	0.00	96	<0.5	<0.5	<0.5	<0.5	2	-	<50	6	<0.5	<0.5	<0.5	<0.5
MW-8	02/20/2006 ⁷	37.21	10.79	26.42	0.00	0.00	81	<0.5	<0.5	<0.5	<0.5	0.6	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-8	05/12/2006 ⁷	37.21	9.24	27.97	0.00	0.00	72	1	<0.5	<0.5	<0.5	2	-	<50	6	<0.5	<0.5	<0.5	<0.5
MW-8	08/14/2006 ⁷	37.21	14.67	22.54	0.00	0.00	110	3	<0.5	<0.5	<0.5	2	-	<50	7	<0.5	<0.5	<0.5	<0.5
MW-8	11/08/2006 ⁷	37.21	17.41	19.80	0.00	0.00	310	2	1	<0.5	2	3	-	<50	13	<0.5	<0.5	<0.5	<0.5
MW-8	02/07/2007 ⁷	37.21	14.58	22.63	0.00	0.00	310	0.6	<0.5	<0.5	<0.5	2	-	<50	7	<0.5	<0.5	<0.5	<0.5
MW-8	05/07/2007 ⁷	37.21	12.78	24.43	0.00	0.00	95	0.5	<0.5	<0.5	<0.5	2	-	<50	6	<0.5	<0.5	<0.5	<0.5
MW-8	08/03/2007 ⁷	37.21	16.70	20.51	0.00	0.00	130	<0.5	<0.5	<0.5	<0.5	2	-	<50	8	<0.5	<0.5	<0.5	<0.5
MW-8	10/12/2007 ⁷	37.21	18.51	18.70	0.00	0.00	340	<0.5	<0.5	<0.5	<0.5	5	-	<50	20	<0.5	<0.5	<0.5	<0.5
MW-8	11/02/2007 ⁷	37.21	18.81	18.40	0.00	0.00	210	<0.5	<0.5	<0.5	<0.5	2	-	<50	5	<0.5	<0.5	<0.5	<0.5
MW-8	12/07/2007 ⁷	37.21	18.62	18.59	0.00	0.00	230	<0.5	<0.5	<0.5	<0.5	2	-	<50	5	<0.5	<0.5	<0.5	<0.5
MW-8	02/01/2008 ⁷	37.21	14.18	23.03	0.00	0.00	96	<0.5	<0.5	<0.5	<0.5	0.8	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-8	05/09/2008 ⁷	37.21	14.33	22.88	0.00	0.00	120	2	<0.5	<0.5	<0.5	2	-	<50	6	<0.5	<0.5	<0.5	<0.5
MW-8	08/22/2008 ⁷	37.21	17.88	19.33	0.00	0.00	180	0.9	<0.5	<0.5	<0.5	4	-	<50	14	<0.5	<0.5	<0.5	<0.5
MW-8	11/26/2008 ⁷	37.21	19.52	17.69	0.00	0.00	350	<0.5	<0.5	<0.5	<0.5	1	-	<50	2	<0.5	<0.5	<0.5	<0.5
MW-8	05/20/2009	37.21	14.11	23.10	0.00	0.00	310	3	<0.5	<0.5	<0.5	0.7 J	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-8	08/26/2009	37.21	18.19	19.02	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	11/12/2009	37.21	16.60	20.61	0.00	0.00	350	2	<0.5	<0.5	<0.5	1	-	<50	2 J	<0.5	<0.5	<0.5	<0.5
MW-8	05/17/2010	37.21	10.50	26.71	0.00	0.00	230	2	<0.5	<0.5	<0.5	0.5 J	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-8	08/26/2010 ¹¹	37.21	14.72	22.49	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	11/11/2010	37.21	16.58	20.63	0.00	0.00	330	<0.5	<0.5	<0.5	<0.5	1	-	<50	3 J	<0.5	<0.5	<0.5	<0.5
MW-8	02/10/2011 ¹³	37.21	12.30	24.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/17/2011	37.21	11.43	25.78	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-8	09/08/2011	37.21	15.15	22.06	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/16/2011	37.21	15.00	22.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	4 J	<0.5	<0.5	<0.5	<0.5

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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-8	03/02/2012 ¹³	37.21	15.70	21.51	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/08/2012	37.21	13.42	23.79	0.00	0.00	100	2	<0.5	<0.5	<0.5	3	-	<50	-	-	-	-	-
MW-8	09/14/2012 ¹³	37.21	17.20	20.01	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/21/2012	37.21	12.11	25.10	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50	6	<0.5	<0.5	<0.5	<0.5
MW-8	04/01/2013 ¹³	37.21	14.87	22.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/28/2013	37.21	16.46	20.75	0.00	0.00	350	<0.5	<0.5	0.5 J	0.6 J	9	-	<50	22	<0.5	<0.5	<0.5	<0.5
MW-8	09/20/2013 ¹³	37.21	18.01	19.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/30/2013	37.21	19.43	17.78	0.00	0.00	820	<0.5	<0.5	<0.5	<0.5	3	-	<50	-	-	-	-	-
MW-8	03/31/2014 ¹³	37.21	14.40	22.81	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/30/2014	37.21	16.46	20.75	0.00	0.00	370	2	<0.5	<0.5	<0.5	3	-	<50	-	-	-	-	-
MW-9	04/01/2002 ⁵	35.03	10.62	24.41	0.00	0.00	94	1.5	<0.50	<0.50	<1.5	-	25/19 ⁵	-	<100	<2	<2	<2	<2
MW-9	08/05/2002	35.03	14.85	20.18	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	15 ⁵ /18	-	<100	<2	<2	<2	<2
MW-9	11/04/2002	35.03	17.48	17.55	0.00	0.00	<50	<0.50	1.7	<0.50	2.1	-	24/21 ⁵	-	<100	<2	<2	<2	<2
MW-9	02/03/2003	35.03	12.51	22.52	0.00	0.00	<50	1.9	<0.50	<0.50	<1.5	-	17/16 ⁵	-	<5	<0.5	<0.5	<0.5	0.8
MW-9	05/02/2003	35.03	11.68	23.35	0.00	0.00	<50	0.6	<0.5	<0.5	<1.5	-	21/18 ⁵	-	<5	<0.5	<0.5	<0.5	0.8
MW-9	08/01/2003 ⁷	35.03	14.69	20.34	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	22	-	<50	7	0.9	<0.5	<0.5	1
MW-9	11/21/2003 ⁷	35.03	16.35	18.68	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	18	-	<50	<5	0.8	<0.5	<0.5	1
MW-9	02/10/2004 ⁷	35.03	11.69	23.34	0.00	0.00	210	7	0.5	1	1	31	-	<50	9	0.6	<0.5	<0.5	2
MW-9	05/11/2004 ⁷	35.03	12.12	22.91	0.00	0.00	230	17	<0.5	<0.5	<0.5	72	-	<50	16	<0.5	<0.5	<0.5	4
MW-9	08/10/2004 ⁷	35.03	14.58	20.45	0.00	0.00	250	5	<0.5	<0.5	<0.5	66	-	<50	<5	0.9	<0.5	<0.5	3
MW-9	11/08/2004	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	02/21/2005 ⁷	35.03	9.52	25.51	0.00	0.00	510	6	<0.5	1	3	79	-	<50	17	0.5	<0.5	<0.5	4
MW-9	05/10/2005 ⁷	35.03	8.85	26.18	0.00	0.00	670	11	0.7	0.5	2	100	-	<50	20	<0.5	<0.5	<0.5	4
MW-9	08/12/2005 ⁷	35.03	11.06	23.97	0.00	0.00	390	4	<0.5	<0.5	0.7	89	-	<50	18	<0.5	<0.5	<0.5	4

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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-9	11/11/2005 ⁷	35.03	15.98	19.05	0.00	0.00	2,500	48	5	21	33	140	-	<50	25	<0.5	<0.5	6	
MW-9	02/20/2006 ⁷	35.03	10.08	24.95	0.00	0.00	3,200	47	5	30	32	130	-	<50	22	<0.5	<0.5	5	
MW-9	05/12/2006 ⁷	35.03	8.08	26.95	0.00	0.00	1,800	19	1	1	4	89	-	<50	14	<0.5	<0.5	4	
MW-9	08/14/2006	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	11/08/2006	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	02/07/2007 ⁷	35.03	13.57	21.46	0.00	0.00	2,000	22	2	1	8	78	-	<50	14	<0.5	<0.5	3	
MW-9	05/07/2007 ⁷	35.03	11.85	23.18	0.00	0.00	1,800	17	2	1	5	67	-	<50	13	<0.5	<0.5	3	
MW-9	08/03/2007	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	10/12/2007 ⁷	35.03	17.20	17.83	0.00	0.00	55	<0.5	<0.5	<0.5	<0.5	30	-	<50	4	<0.5	<0.5	1	
MW-9	11/02/2007 ⁷	35.03	17.28	17.75	0.00	0.00	72	<0.5	<0.5	<0.5	0.9	57	-	<50	8	<0.5	<0.5	2	
MW-9	12/07/2007 ⁷	35.03	17.12	17.91	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	59	-	<50	9	<0.5	<0.5	2	
MW-9	02/01/2008 ⁷	35.03	12.23	22.80	0.00	0.00	61	<0.5	<0.5	<0.5	<0.5	50	-	<50	11	<0.5	<0.5	2	
MW-9	05/09/2008	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	05/16/2008 ⁷	35.03	13.34	21.69	0.00	0.00	51	0.5	6	0.5	3	35	-	<50	11	<0.5	<0.5	1	
MW-9	08/22/2008 ⁷	35.03	16.32	18.71	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	35	-	<50	6	<0.5	<0.5	0.9	
MW-9	11/26/2008 ⁷	35.03	17.84	17.19	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	33	-	<50	4	<0.5	<0.5	0.7	
MW-9	05/20/2009	35.03	13.18	21.85	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	18	-	<50	7	<0.5	<0.5	<0.5	
MW-9	08/26/2009	35.03	17.03	18.00	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	26	-	<50	<2	<0.5	<0.5	<0.5	
MW-9	02/01/2010	35.03	11.69	23.34	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	19	-	<50	9	<0.5	<0.5	<0.5	
MW-9	08/26/2010	35.03	12.60	22.43	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	17	-	<50	9	<0.5	<0.5	0.6 J	
MW-9	11/11/2010 ¹¹	35.03	15.74	19.29	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	02/10/2011 ¹¹	35.03	10.29	24.74	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	12	-	<50	12	<0.5	<0.5	<0.5	
MW-9	06/17/2011 ¹¹	35.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	09/08/2011 ¹¹	35.03	12.74	22.29	0.00	0.00	60 J	<0.5	<0.5	<0.5	<0.5	15	-	<50	-	-	-	-	
MW-9	12/16/2011 ¹¹	35.03	14.60	20.43	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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-9	03/02/2012	35.03	14.43	20.60	0.00	0.00	83 J	<0.5	<0.5	<0.5	<0.5	10	-	<50	15	<0.5	<0.5	<0.5	<0.5
MW-9	06/08/2012 ¹¹	35.03	11.42	23.61	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	09/14/2012	35.03	15.90	19.13	0.00	0.00	220	1	<0.5	<0.5	<0.5	17	-	<50	14	<0.5	<0.5	<0.5	<0.5
MW-9	12/21/2012 ¹¹	35.03	12.06	22.97	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	04/01/2013	35.03	12.68	22.35	0.00	0.00	630	4	0.5 J	<0.5	1	11	-	<50	11	<0.5	<0.5	<0.5	<0.5
MW-9	06/28/2013 ¹¹	35.03	15.29	19.74	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	09/20/2013	35.03	16.92	18.11	0.00	0.00	120	<0.5	<0.5	<0.5	<0.5	12	-	<50	-	-	-	-	-
MW-9	12/30/2013	35.03	18.24	16.79	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/31/2014	35.03	14.20	20.83	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	4	-	<50	4 J	<0.5	<0.5	<0.5	<0.5
MW-9	06/30/2014¹³	35.03	15.51	19.52	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	04/01/2002 ⁵	35.53	11.72	23.81	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	5 ⁵ /6.1	-	<100	<2	<2.0	<2	<2
MW-10	08/05/2002	35.53	15.80	19.73	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	5.1/5 ⁵	-	<100	<2	<2.0	<2	<2
MW-10	11/04/2002	35.53	18.31	17.22	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	5.5/5 ⁵	-	<100	<2	<2.0	<2	<2
MW-10	02/03/2003	35.53	13.42	22.11	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	-	2.8/3 ⁵	-	<5	<0.5	<0.5	<0.5	<0.5
MW-10	05/02/2003	35.53	12.45	23.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<1.5	-	<2.5/<0.5 ⁵	-	<5	<0.5	<0.5	<0.5	<0.5
MW-10	08/01/2003 ⁷	35.53	15.62	19.91	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50.0	<5	<0.5	<0.5	<0.5	<0.5
MW-10	11/21/2003 ⁷	35.53	17.26	18.27	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50.0	<5	<0.50	<0.50	<0.5	<0.5
MW-10	02/10/2004 ⁷	35.53	12.52	23.01	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50.0	<5	<0.50	<0.5	<0.5	<0.5
MW-10	05/11/2004 ⁷	35.53	13.06	22.47	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<5	<0.5	<0.5	<0.5	<0.5
MW-10	08/10/2004 ⁷	35.53	15.45	20.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	3	-	<50.0	<5	<0.5	<0.5	<0.5	<0.5
MW-10	11/08/2004 ⁷	35.53	14.68	20.85	0.00	0.00	<50	<0.5	<0.5	0.9	5	<0.5	-	<50.0	<5	<0.5	<0.50	<0.5	<0.5
MW-10	02/21/2005 ⁷	35.53	10.32	25.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50.0	<5	<0.5	<0.50	<0.5	<0.5
MW-10	05/10/2005 ⁷	35.53	11.04	24.49	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50.0	<5	<0.5	<0.50	<0.5	<0.5
MW-10	08/12/2005 ⁷	35.53	12.58	22.95	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50.0	<5	<0.5	<0.50	<0.5	<0.5

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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-10	11/11/2005 ⁷	35.53	16.89	18.64	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	5	-	<50.0	<5	<0.5	<0.50	<0.5	
MW-10	02/20/2006 ⁷	35.53	10.91	24.62	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50.0	<5	<0.5	<0.50	<0.5	
MW-10	05/12/2006 ⁷	35.53	9.26	26.27	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.6	-	<50	<5	<0.5	<0.5	<0.5	
MW-10	08/14/2006 ⁷	35.53	13.96	21.57	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50.0	<5	<0.5	<0.5	<0.5	
MW-10	11/08/2006	35.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-10	02/07/2007 ⁷	35.53	14.45	21.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50.0	<2	<0.5	<0.5	<0.5	
MW-10	05/07/2007 ⁷	35.53	12.81	22.72	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.9	-	<50.0	<2	<0.5	<0.5	<0.5	
MW-10	08/03/2007 ⁷	35.53	16.35	19.18	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	3	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	10/12/2007 ⁷	35.53	17.93	17.60	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	5	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	11/02/2007 ⁷	35.53	18.04	17.49	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	4	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	12/07/2007 ⁷	35.53	17.81	17.72	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	3	-	<50	<2	<0.5	<0.50	<0.5	
MW-10	02/01/2008 ⁷	35.53	13.35	22.18	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	<2	<0.5	<0.50	<0.5	
MW-10	05/09/2008 ⁷	35.53	14.11	21.42	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50	<2	<0.50	<0.50	<0.5	
MW-10	08/22/2008 ⁷	35.53	17.70	17.83	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	5	-	<50	<2	<0.5	<0.50	<0.5	
MW-10	11/26/2008 ⁷	35.53	18.61	16.92	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	4	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	05/20/2009	35.53	14.03	21.50	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	3	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	08/26/2009	35.53	17.81	17.72	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	4	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	02/01/2010	35.53	12.36	23.17	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	08/26/2010	35.53	14.15	21.38	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	11/11/2010 ¹¹	35.53	16.09	19.44	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-10	02/10/2011 ¹¹	35.53	12.02	23.51	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.7 J	-	<50	<2	<0.5	<0.5	<0.5	
MW-10	06/17/2011 ¹¹	35.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-10	09/08/2011 ¹¹	35.53	14.31	21.22	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.5 J	-	<50	-	-	-	-	
MW-10	12/16/2011 ¹¹	35.53	15.41	20.12	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-10	03/02/2012	35.53	15.28	20.25	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<2	<0.5	<0.5	<0.5	

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS					ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
Units	ft	ft	ft-amsl	ft	gal	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-10	06/08/2012 ¹¹	35.53	12.84	22.69	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/14/2012	35.53	16.63	18.90	0.00	0.00	<50	<0.5	<0.5	1	6	2	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-10	12/21/2012 ¹¹	35.53	12.76	22.77	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	04/01/2013	35.53	14.37	21.16	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-10	06/28/2013 ¹¹	35.53	16.03	19.50	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/20/2013	35.53	17.88	17.65	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	2	-	<50	-	-	-	-	-
MW-10	12/30/2013	35.53	19.05	16.48	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/31/2014	35.53	15.40	20.13	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.8 J	-	<50	<2	<0.5	<0.5	<0.5	<0.5
MW-10	06/30/2014¹³	35.53	16.22	19.31	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	11/21/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	02/05/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	04/01/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	08/05/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	10/04/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	02/03/2003	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	-	<2.5	-	-	-	-	-	-
QA	05/02/2003	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	-	<2.5	-	-	-	-	-	-
QA	08/01/2003 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/21/2003 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/10/2004 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/11/2004 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/10/2004 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/08/2004 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/21/2005 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/10/2005 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS					ADDITIONAL VOCS						
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	08/12/2005 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/11/2005 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/20/2006 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/12/2006 ⁷	-	-	-	-	-	<50	<0.5	0.5 ⁹	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/14/2006 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/08/2006 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/07/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/07/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/03/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	10/12/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/02/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	12/07/2007 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/01/2008 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/09/2008 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/16/2008 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/22/2008 ⁷	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/26/2008 ⁷	-	-	-	-	-	<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	08/26/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/12/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/01/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
QA	05/17/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/26/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/11/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/10/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-

TABLE 4

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCs					ADDITIONAL VOCs					
							TPH-GRO	B	T	E	X	M/TBE by SW8260	M/TBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	06/17/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/08/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<50	-	-	-	-	-
QA	12/16/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	03/02/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	06/08/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/14/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	12/21/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	04/01/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	06/28/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/20/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	12/30/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	03/31/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	06/30/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
TRIP BLANK	02/08/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	06/16/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	07/29/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	08/13/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	11/24/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	02/02/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	02/03/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	06/07/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	09/07/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<5.0	-	-	-	-	-	-
TRIP BLANK	10/27/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
TRIP BLANK	02/08/2000	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<5.0	-	-	-	-	-	-

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS					ADDITIONAL VOCS						
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	05/05/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
TRIP BLANK	07/28/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
TRIP BLANK	11/26/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
TRIP BLANK	02/09/2001	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	-	<2.50	-	-	-	-	-	-
TRIP BLANK	05/11/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	-	<2.5	-	-	-	-	-	-
TRIP BLANK	08/30/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	-	<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-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

MTBE = Methyl tert butyl ether

TBA = Tert-butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-butyl ethyl ether

TAME = Tert-amyl methyl ether

TABLE 4

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS		PRIMARY VOCS				ADDITIONAL VOCS					
							TPH-GRO	B	T	E	X	MTBE by SW8260	MTBE by VOC	Ethanol	TBA	DIPE	ETBE	TAME
Units		ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

J = Estimated value (the result method result > the detection limit < the limit of quantitation)

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

* TOC elevations were re-surveyed on May 31, 2005, by Morrow Surveying Land Surveyors using the previous benchmark. TOC elevations were surveyed in April 2002, by Morrow Surveying. Elevations are based on City of Oakland Benchmark designated 3787 in field book 1595, page 50; cut square northerly curb on Krause Ave., approx. 37 feet westerly of PL westerly of 73rd Ave., (Elevation = 33.82 feet).

** GWE corrected for the presence of LNAPL; correction factor: $[(TOC - DTW) + (LNAPL \times 0.8)]$.

1 Confirmation run.

2 Laboratory report indicates gasoline C6-C12.

3 Laboratory report indicates weathered gasoline C6-C12.

4 Product and water removed.

5 MTBE by EPA Method 8260.

6 Well development performed.

7 BTEX and MTBE by EPA Method 8260.

8 Laboratory report indicates the trip blank results were investigated and the source of contamination did not occur during analysis.

9 Product removed; no water removed.

10 Laboratory report indicates the value for the TPH-GRO is estimated because the value is over the calibration range of the system. The surrogate recovery is outside the upper statistical QC limit. The sample was not reanalyzed because the hold time had ex

11 Sampled semi-annually.

12 Unable to access well due to large donation bin located on well.

13 Gauged only.

14 Inaccessible

**MONITORING WELL CONSTRUCTION DETAIL
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>Consultant</i>	<i>Well Casing Diameter (inches)</i>	<i>Depth (fbg)</i>	<i>Screen Interval (fbg)</i>	<i>Top of Casing (msl)</i>	<i>Top of Screen</i>	<i>Length of Screen</i>
MW-1	01/22/98	Gettler-Ryan	2	36.5	14.0-34.0	37.40	14	20
MW-2	01/22/98	Gettler-Ryan	2	31.5	10.5-30.5	35.72	10.5	20
MW-3	01/22/98	Gettler-Ryan	2	34.5	13.5-33.5	36.53	13.5	20
MW-4	01/22/99	Gettler-Ryan	2	31.5	11.0-31.0	37.29	11	20
MW-5	01/22/99	Gettler-Ryan	2	31.5	11.5-31.5	37.40	11.5	20
MW-6	01/22/99	Gettler-Ryan	2	32.0	12.0-32.0	36.90	12	20
MW-7	07/03/00	Cambria	3/4	25.0	10.0-25.0	36.84	10	15
MW-8	03/13/02	Gettler-Ryan	2	30.0	10.0-30.0	37.21	10	20
MW-9	03/15/02	Gettler-Ryan	2	30.0	10.0-30.0	35.03	10	20
MW-10	03/15/02	Gettler-Ryan	2	30.0	10.0-30.0	35.53	10	20

Notes:

fbg = Feet below grade
msl = mean sea level

TABLE 6

**CUMULATIVE VAPOR ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	TPHg	Concentrations reported in micrograms per cubic meter - ($\mu\text{g}/\text{m}^3$)							Concentrations reported in % volume		
				Benzene	Toluene	Ethylbenzene	Xylene ^A	MTBE	2-propanol ^B	Isobutane ^B	Helium	Oxygen	Carbon Dioxide
LTP- Soil Gas-Scenario 4, Oxygen < 4%													
Residential			NE	<85	NE	<1,100	NE	NE	NE	NE	NE	<4	NE
Commerical			NE	<280	NE	<3,600	NE	NE	NE	NE	NE	<4	NE
LTP- Soil Gas-Scenario 4, Oxygen > 4%													
Residential			NE	<85,000	NE	<1,100,000	NE	NE	NE	NE	NE	NE	NE
Commerical			NE	<280,000	NE	<3,600,000	NE	NE	NE	NE	NE	NE	NE
VP-1	04/21/05	5.0-6.5	79,000	<33	49	<45	<45	660	170	--	--	9.2	0.9
VP-1	07/18/05	5.0-6.5	33,000	<39	52	<52	<52	260	350	--	--	15	1.0
VP-1*	08/11/05	5.0-6.5	--	--	--	--	--	--	--	--	--	--	--
VP-1	09/29/06	5.0-6.5	1,100	<3.6	6.6	<5.5	5.1	660	--	67	--	12	7.5
VP-1	LAB DUPLICATE		--	<3.6	6.7	<5.0	5.4	660	--	52	--	--	--
VP-1	05/23/08	5.0-6.5	2,700	4.5	<4.6	<5.4	<5.4	410	--	--	<0.12	1.4	11
VP-1	04/21/05	7.5-9.0	11,000	<39	<46	<54	<54	570	450	--	--	7.6	8.2
VP-1	07/18/05	7.5-9.0	40,000	<38	110	<52	72	370	190	--	--	8.2	11
VP-1*	08/11/05	7.5-9.0	--	--	--	--	--	--	--	--	--	--	--
VP-1	09/29/06	7.5-9.0	12,000	17	5.1	<4.8	<4.8	910	--	76	--	2.9	14
VP-1 DUP	09/29/06	7.5-9.0	12,000	17	5.3	<4.9	<4.9	880	--	81	--	2.6	14
VP-1 DUP	LAB DUPLICATE		11,000	--	--	--	--	--	--	--	--	--	--
VP-1	05/23/08	7.5-9.0	13,000	<7.9	<9.3	<11	<11	660	--	--	--	1.5	12
VP-1 DUP	05/23/08	7.5-9.0	13,000	<7.9	<9.3	<11	<11	660	--	--	<0.12	1.4	12
VP-1	04/21/05	10.0-11.5	6,300	<39	<46	<54	<54	280	850	--	--	8.1	9.3
VP-1	07/18/05	10.0-11.5	94,000	<35	61	<48	<48	70	96	--	--	9.6	7.5
VP-1*	08/11/05	10.0-11.5	--	--	--	--	--	--	--	--	--	--	--
VP-1	09/29/06	10.0-11.5	13,000	23	11	<5.0	<5.0	490	--	69	--	1.8	15.0
VP-1	05/23/08	10.0-11.5	34,000	<15	<18	<21	<21	390	--	--	<0.12	1.3	12
VP-2	04/22/05	5.0-6.5	--	--	--	--	--	--	--	--	--	--	--
VP-2	07/18/05	5.0-6.5	--	--	--	--	--	--	--	--	--	--	--
VP-2*	08/11/05	5.0-6.5	--	--	--	--	--	--	--	--	--	--	--
VP-2	09/28/06	5.0-6.5	520	<3.7	<4.4	<5.0	<5.0	14	--	150	--	18	2.1
VP-2	05/23/08	5.0-6.5	570	4.5	18	<5.5	5.6	<4.6	--	--	4.2	20	0.34

TABLE 6

**CUMULATIVE VAPOR ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	TPHg	Concentrations reported in micrograms per cubic meter - ($\mu\text{g}/\text{m}^3$)							Concentrations reported in % volume		
				Benzene	Toluene	Ethylbenzene	Xylene ^A	MTBE	2-propanol ^B	Isobutane ^B	Helium	Oxygen	Carbon Dioxide
LTP- Soil Gas-Scenario 4, Oxygen < 4%													
Residential			NE	<85	NE	<1,100	NE	NE	NE	NE	NE	<4	NE
Commerical			NE	<280	NE	<3,600	NE	NE	NE	NE	NE	<4	NE
LTP- Soil Gas-Scenario 4, Oxygen > 4%													
Residential			NE	<85,000	NE	<1,100,000	NE	NE	NE	NE	NE	NE	NE
Commerical			NE	<280,000	NE	<3,600,000	NE	NE	NE	NE	NE	NE	NE
VP-2	04/22/05	7.5-9.0	49,000	<39	<46	<54	<54	<44	110,000 ^C	--	--	7.8	5.5
VP-2 DUP	04/22/05	7.5-9.0	50,000	<36	<42	<49	<49	<40	110,000 ^C	--	--	7	5.9
VP-2	07/18/05	7.5-9.0	8,400	<39	<46	<52	<52	<44	44	--	--	6.6	7.8
VP-2 DUP	07/18/05	7.5-9.0	8,700	<37	<44	<50	<50	<42	82	--	--	6.5	8.2
VP-2*	08/11/05	7.5-9.0	--	--	--	--	--	--	--	--	--	--	--
VP-2	09/28/06	7.5-9.0	500	<3.6	<4.3	5.3	21	34	--	67	--	3.6	9.9
VP-2	05/23/08	7.5-9.0	3,400	4.4	11	<5.7	<5.7	14	--	--	0.15	3.6	7.4
VP-2	04/22/05	10.0-11.5	--	--	--	--	--	--	--	--	--	--	--
VP-2	07/18/05	10.0-11.5	5,900	<36	<43	<50	<50	<41	<28	--	--	12	4.4
VP-2*	08/11/05	10.0-11.5	--	--	--	--	--	--	--	--	--	--	--
VP-2	09/28/06	10.0-11.5	20,000	<5.8	<6.9	<7.9	<7.9	31	--	380	--	3.2	10
VP-2	05/23/08	10.0-11.5	10,000	7.2	100	21	72	10	--	--	1.2	8.1	5.3
VP-3	04/22/05	5.0-6.5	36,000	<39	<46	<54	<54	<44	79,000 ^C	--	--	14	2.8
VP-3	07/18/05	5.0-6.5	54,000	<140	<170	<190	<190	<160	<58,000	--	--	4.4	8.4
VP-3	08/11/05	5.0-6.5	330,000	220	<42	1,100	890	<40	110	--	--	--	--
VP-3	09/28/06	5.0-6.5	<240	<3.7	<4.4	<5.0	<5.0	<4.2	--	404	--	22	0.065
VP-3	05/23/08	5.0-6.5	940	<3.9	<4.6	7.8	220	<4.4	--	--	<0.12	6.4	6.3
VP-3	LAB DUPLICATE		--	--	--	--	--	--	--	--	<0.12	6.4	6.3
VP-3	04/22/05	7.5-9.0	2,300,000	<40	<48	<55	<55	<46	>1,000,000	--	--	21	0.2
VP-3	07/18/05	7.5-9.0	19,000	<65	<76	<88	<88	<73	<26,000	--	--	4.7	7.9
VP-3	08/11/05	7.5-9.0	48,000	<36	<42	210	130	<40	740	--	--	--	--
VP-3	09/28/06	7.5-9.0	260	<3.9	11	<5.2	<5.2	<4.4	--	ND	--	6.7	10
VP-3 DUP	09/28/06	7.5-9.0	540	3.8	18	<4.8	<4.8	<4.0	--	ND	--	6.7	11
VP-3 DUP	05/23/08	7.5-9.0	1,400	<4	490	8.5	7.7	<4.6	--	--	0.3	6.6	6

TABLE 6

**CUMULATIVE VAPOR ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	TPHg	Concentrations reported in micrograms per cubic meter - ($\mu\text{g}/\text{m}^3$)							Concentrations reported in % volume		
				Benzene	Toluene	Ethylbenzene	Xylene ^A	MTBE	2-propanol ^B	Isobutane ^B	Helium	Oxygen	Carbon Dioxide
LTP- Soil Gas-Scenario 4, Oxygen < 4%													
Residential			NE	<85	NE	<1,100	NE	NE	NE	NE	NE	<4	NE
Commerical			NE	<280	NE	<3,600	NE	NE	NE	NE	NE	<4	NE
LTP- Soil Gas-Scenario 4, Oxygen > 4%													
Residential			NE	<85,000	NE	<1,100,000	NE	NE	NE	NE	NE	NE	NE
Commerical			NE	<280,000	NE	<3,600,000	NE	NE	NE	NE	NE	NE	NE
VP-3 DUP	LAB DUPLICATE		--	<4	470	8.4	15	<4.6	--	--	0.3	6.6	6
VP-3	04/22/05	10.0-11.5	--	--	--	--	--	--	--	--	--	--	--
VP-3	07/18/05	10.0-11.5	10,000	<34	<41	<47	<47	<39	<13,000	--	--	4.5	5.2
VP-3	LAB DUPLICATE		10,000	<34	<41	<47	<47	<39	<13,000	--	--	4.5	5.2
VP-3	08/11/05	10.0-11.5	19,000	<38	<45	70	60	<43	3,900	--	--	--	--
VP-3 DUP	08/11/05	10.0-11.5	18,000	<40	<48	66	<55	<46	3,900	--	--	--	--
VP-3	09/28/06	10.0-11.5	970	5.2	16	<5.4	<5.4	<4.4	--	ND	--	3.7	6.4
VP-3	05/23/08	10.0-11.5	5,700	<7.3	2500	47	91	<8.2	--	--	0.29	12	3.2
VP-4	04/22/05	5.0-6.5	1,800,000	<39	97	<54	97	220	>650,000	--	--	13	6.0
VP-4	07/18/05	5.0-6.5	--	--	--	--	--	--	--	--	--	--	--
VP-4	08/11/05	5.0-6.5	2,300,000	150	<43	60	120	540	48	--	--	--	--
VP-4	09/29/06	5.0-6.5	1,500,000	<91	<110	<120	<120	210	--	ND	--	7.8	14
VP-4	05/23/08	5.0-6.5	2,100,000	<170	<200	<230	<230	260	--	--	<0.11	1.3	18
VP-4	04/22/05	7.5-9.0	1,300,000	<39	99	<54	110	340	>420,000	--	--	15	5.5
VP-4	07/18/05	7.5-9.0	--	--	--	--	--	--	--	--	--	--	--
VP-4	08/11/05	7.5-9.0	1,800,000	120	<42	<49	79	700	690	--	--	--	--
VP-4	09/29/06	7.5-9.0	2,800,000	<180	<210	<240	<240	410	--	ND	--	5.1	16
VP-4	05/23/08	7.5-9.0	2,700,000	<790	<930	<1100	<1100	<890	--	--	<0.12	1.2	15
VP-4	04/22/05	10.0-11.5	280,000	<40	48	<55	<55	<46	340,000 ^C	--	--	21	0.2
VP-4	LAB DUPLICATE		270,000	41	<48	<55	<55	<46	370,000 ^C	--	--	--	--
VP-4	07/18/05	10.0-11.5	--	--	--	--	--	--	--	--	--	--	--
VP-4	08/11/05	10.0-11.5	25,000,000	19,000	<1700	48,000	34,000	<1,600	<1,100	--	--	--	--
VP-4	09/29/06	10.0-11.5	42,000,000	180,000	440,000	430,000	250,000	<82,000	--	1,854,135	--	1.9	16
VP-4	05/23/08	10.0-11.5	15,000,000	<1500	2,600	<2000	<2000	<1700	--	--	<0.12	3.2	11

**CUMULATIVE VAPOR ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	TPHg	Concentrations reported in micrograms per cubic meter - ($\mu\text{g}/\text{m}^3$)							Concentrations reported in % volume		
				Benzene	Toluene	Ethylbenzene	Xylene ^A	MTBE	2-propanol ^B	Isobutane ^B	Helium	Oxygen	Carbon Dioxide
LTP- Soil Gas-Scenario 4, Oxygen < 4%													
Residential			NE	<85	NE	<1,100	NE	NE	NE	NE	NE	<4	NE
Commerical			NE	<280	NE	<3,600	NE	NE	NE	NE	NE	<4	NE
LTP- Soil Gas-Scenario 4, Oxygen > 4%													
Residential			NE	<85,000	NE	<1,100,000	NE	NE	NE	NE	NE	NE	NE
Commerical			NE	<280,000	NE	<3,600,000	NE	NE	NE	NE	NE	NE	NE

Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by Modified EPA Method TO-15 before 3Q06 and by Modified EPA Method TO-3 after 3Q06.

Benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tertiary butyl ether (MTBE), tert-Butyl alcohol (TBA), isopropyl ether (DIPE), ethyl-tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), ethanol, naphthalene, 2-propanol and isobutane by Modified EPA Method TO-14A in 2005 and by Modified EPA Method TO-15 after 2005.

Helium, oxygen and carbon dioxide by ASTM D-1946.

fbg = Feet below grade.

<x = Not detected above method detection limit.

ND = Not detected above laboratory method detection limit, no detection limit reported.

NE = Not established

>xxx = Laboratory report indicates saturated peak, data reported as estimated

A = Values for highest value of Xylenes detected.

B = 2-propanol and isobutane were used as leak test compounds per DTSC guidelines in Advisory - Active Soil Gas Investigations, published January 2003. Originally reported in part per billion by volume (ppbv) and converted to $\mu\text{g}/\text{m}^3$ using Air Toxics Units Conversion Calculator

C = Exceeded laboratory instrument calibration range

* = Only soil vapor probes VP-3 and VP-4 were sampled during the August, 2005 resampling event.

Appendix A

Regulatory Correspondence



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

April 7, 2014

Ms. Alexis Fischer
Chevron Products Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to
AFischer@chevron.com)

Mr. Amardeep Sidhu
Malwa Petroleum Sales, LLC
32875 Bluebird Loop
Fremont, CA 94555

Mike and Dean Najdawi
1001 Shoreway Road
Belmont, CA 94002

7225 Bancroft St LP
c/o Najdawi Investments, Inc.
5 Kingswood Circle
Hillsborough, CA 94010

Subject: Request for Focused Site Conceptual Model Addendum and Data Gap Work Plan; Fuel Leak Case No. RO0000274 and Geotracker Global ID T0600102079, Chevron #9-3322; 7225 Bancroft Avenue, Oakland, CA 94605

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Second Quarter 2013 Groundwater Monitoring and Sampling Report*, dated August 16, 2013, submitted on your behalf by Conestoga-Rovers & Associates (CRA). Thank you the submittal of the report.

ACEH has evaluated the data and recommendations presented in the above-mentioned reports, in conjunction with the case files, to determine if the site is eligible for closure as a low risk site under the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACEH staff review, we have determined that the site fails to meet the LTCP General Criteria d (free product removed to extent practicable), e (Site Conceptual Model), f (secondary source removed to the extent practicable), the Media-Specific Criteria for Groundwater, and the Media-Specific Criteria for Vapor Intrusion to Indoor Air (see Geotracker for a copy of the LTCP checklist).

Therefore, at this juncture ACEH requests that you prepare a Revised Data Gap Investigation Work Plan that is supported by a focused Site Conceptual Model (SCM) to address the Technical Comments provided below.

TECHNICAL COMMENTS

1. **LTCP General Criteria d (Free Product)** – The LTCP requires free product to be removed to the extent practicable at release sites where investigations indicate the presence of free product by removing in a manner that minimizes the spread of the unauthorized release into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site, and that properly treats, discharges, or disposes of recovery byproducts in compliance with applicable laws. Additionally, the LTCP requires that abatement of free product migration be used as a minimum objective for the design of any free product removal system.

ACEH's review of the case files indicates that insufficient data and analysis has been presented to assess free product at the site. Specifically, total petroleum hydrocarbons as gasoline (TPHg) and benzene were detected at concentrations technical support documents for the LTCP consider to be

indirect evidence of Light Non-Aqueous Phase Liquid (LNAPL). Prior to the introduction of surfactant in 2007 LNAPL was consistently observed in wells MW-1; however, subsequently LNAPL has not been observed but concentrations indicative of LNAPL remain. Concentrations from the most recently available groundwater monitoring event (September 2013) ranged up to 130,000 micrograms per liter ($\mu\text{g/l}$) TPHg, and 19,000 $\mu\text{g/l}$ benzene. During the August 1998 groundwater sampling event, well MW-1 contained nearly identical concentrations (130,000 $\mu\text{g/l}$ and 19,000 $\mu\text{g/l}$, respectively). In the intervening years, contaminant concentrations have ranged up to 340,000 TPHg and 28,000 $\mu\text{g/l}$ benzene. Contaminant concentrations in the well have not decreased or degraded in over 15 years. Wells MW-1 and MW-7 also contain consistent elevated ethanol detection limits that suggest that the lack of degradation of benzene in the wells may be related to the presence of ethanol in the wells. The introduction of surfactant in 2007 to these wells may also be limiting biodegradation beneath the site.

Please evaluate the adequacy of LNAPL removal in the focused SCM and if applicable present a strategy in the Data Gap Work Plan (described in Item 6 below) to address the items discussed above. Alternatively, please provide justification of why the site satisfies this general criterion in the focused SCM described in Item 6 below.

- 2. LTCP General Criteria e (Site Conceptual Model)** – According to the LTCP, the SCM is a fundamental element of a comprehensive site investigation. The SCM establishes the source and attributes of the unauthorized release, describes all affected media (including soil, groundwater, and soil vapor as appropriate), describes local geology, hydrogeology and other physical site characteristics that affect contaminant environmental transport and fate, and identifies all confirmed and potential contaminant receptors (including water supply wells, surface water bodies, structures and their inhabitants). The SCM is relied upon by practitioners as a guide for investigative design and data collection. All relevant site characteristics identified by the SCM shall be assessed and supported by data so that the nature, extent and mobility of the release have been established to determine conformance with applicable criteria in this policy.

Our review of the case files indicates that insufficient data collection and analysis has not been presented to assess the nature, extent, and mobility of the release and to support compliance with General Criteria d as discussed in Item 1 above, General Criteria f, Media Specific Criteria for Groundwater, and Vapor Intrusion to Indoor Air, as described in Items 3, 4 and 5 below, respectively.

- 3. General Criteria f – Secondary Source Has Been Removed to the Extent Practicable** – “Secondary source” is defined as petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source. Unless site attributes prevent secondary source removal (e.g. physical or infrastructural constraints exist whose removal or relocation would be technically or economically infeasible), petroleum-release sites are required to undergo secondary source removal to the extent practicable as described in the policy. “To the extent practicable” means implementing a cost-effective corrective action which removes or destroys-in-place the most readily recoverable fraction of source-area mass. It is expected that most secondary mass removal efforts will be completed in one year or less. Following removal or destruction of the secondary source, additional removal or active remedial actions shall not be required by regulatory agencies unless (1) necessary to abate a demonstrated threat to human health or (2) the groundwater plume does not meet the definition of low threat as described in this policy.

The removal of product piping in August 1996 is the only documented removal of existing underground dispensing infrastructure at the site. Confirmation soil samples detected soil concentrations up to 500 milligrams per kilogram (mg/kg) TPHg at 4 feet below grade surface (bgs), 4.2 mg/kg benzene at 3 feet bgs, and 1.1 mg/kg MTBE at 4 feet bgs (confirmation soil samples P-6, P7, P8, and P10). Technical support documents for the LTCP consider concentrations in soil greater than 100 – 200 mg/kg TPHg to be indirect evidence of LNAPL in soil at a site.

Additionally, ACEH's files contain a facsimile copy (dated August 14, 1996) of a former site schematic that indicates that a piping “elbow sloughed off” near the southern dispensers associated with an earlier tank configuration, and that no soil sample had been collected. Two fuel releases have been

reported to be associated with the site, an earlier leaded gasoline and a reformulated gasoline containing MTBE. ACEH assumes the earlier release may be associated with this release location. This release vicinity has not been further characterized at depth. ACEH has attached a copy of the facsimile. Finally, the presence of elevated ethanol limits of detection in wells MW-1 and MW-7 indicates that a third release has occurred at the site.

Please present a strategy in the Data Gap Work Plan (described in Item 6 below) to address the items discussed above. Alternatively, please provide justification of why the site satisfies this general criterion in the focused SCM described in Item 6 below.

4. **LTCP Media Specific Criteria for Groundwater** – To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites listed in the policy.

Our review of the case files indicates that insufficient data collection and analysis has been presented to support the requisite characteristics of plume stability or plume classification as follows:

- a. **Insufficient Characterization of Hydrogeology** – The hydrogeology of the site appears to be fairly complex, and does not appear to be sufficiently characterized. The following elements contribute to this summarization:
 - i. **Length of LNAPL and High Dissolved Phase Plumes** – As noted above, well MW-1 contains groundwater concentrations that technical support documents for the LTCP consider to be indirect evidence of LNAPL. Prior to the introduction of surfactant to wells at the site, including MW-1, LNAPL was consistently observed in the well. At present well MW-4, apparently 50 feet downgradient of well MW-1 contains absolutely no detectable concentration of any hydrocarbon constituent. This is highly unusual in a granular water-bearing zone. The site also has a substantial vertical gradient, with a difference in groundwater levels as much as 6.4 feet across the site (a distance of approximately 100 feet). It appears appropriate to investigate manmade or natural preferential pathways beneath the site verify that well MW-4 is an appropriate downgradient compliance point.
 - ii. **Lateral Extent of LNAPL, Soil, and Groundwater Contamination** – A minimum of two release areas appear to have been present at the site as discussed above. Due to the granular nature of soil at the site, it appears that the older release discharged nearly directly through a granular tank complex to groundwater, as indicated in the soil bore descriptions (see below). As the release appears to involve free-phase liquids released directly to granular tank fill and a granular water-bearing zone, the extent of the LNAPL “pancake” layer, including the upgradient extent, has not been defined offsite to the south, southwest, and southeast of the tank complex(s).
 - iii. **Vertical Extent of Soil and Groundwater Contamination** – The vertical extent of soil and groundwater contamination does not appear to be characterized. This influences the understanding of site hydrogeology, and contaminant pathways and transport. Multiple bore and well logs document that either the highest soil analytical result or the highest PID detection was at or near the bottom of a bore (see for example MW-1, MW-2, MW-3, MW-7, MW-8, B-2, B-5, etc.) A substantial number of high PID detections, at or near the bottom of a bore, were not submitted for laboratory analysis. Additional hydrogeologic pathways may be present beneath the explored depths as the vertical extent of the smear zone is not presently known or understood. As discussed above, the high vertical groundwater gradient further indicates a potential for significant vertical extent and unresolved migration pathways for LNAPL and dissolved-phase hydrocarbons.
 - iv. **Preferential Pathway and Conduit Survey** – The *Creek and Watershed Map of Oakland & Berkeley*, (Oakland Museum of California, 2000; available online at the

ACEH or the Museum's website), indicates the 73rd Avenue Branch Storm Drain, a major trunk storm drain line, runs toward the bay beneath 73rd Avenue. Additionally, two large trunk storm drain lines run beneath Bancroft Avenue and beneath the Eastmont Mall parking lot and intersect the 73rd Avenue Branch storm drain at 73rd Avenue. The potential to transport substantial volumes of water past the subject site in granular water-bearing zones exists and may influence site groundwater flow. Because the nature of the storm line is undetermined (construction styles, lined or unlined, backfill material surrounding the structures, installation depths, invert depths, etc), and because other utility conduits are likely beneath the adjacent streets, it appears appropriate to conduct a preferential pathway conduit survey.

- v. **Sensitive Receptor Survey** - The subject site is situated on the edge of a residential neighborhood. Because groundwater appears to flow to the north to northwest beneath the residential neighborhood, it appears appropriate to determine if basements or other structures may be present beneath the site vicinity that can eliminate or negate any level of safety through vertical separation built into the LTCP.

It also appears to be appropriate to update the 1998 well survey and incorporate both Department of Water Resources and Alameda County Public Works Agency records for wells that may have been missed or installed in the intervening years.

Please present a strategy in the Data Gap Work Plan (described in Item 6 below) to address the items discussed above. Alternatively, please provide justification of why the site satisfies the Media-Specific Criteria for Groundwater in the focused SCM described in Item 6 below.

- 5. **LTCP Media Specific Criteria for Vapor Intrusion to Indoor Air** – The LTCP describes conditions, including bioattenuation zones, which if met will assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to human occupants of existing or future site buildings, and adjacent parcels. Appendices 1 through 4 of the LTCP criteria illustrate four potential exposure scenarios and describe characteristics and criteria associated with each scenario.

Our review of the case files indicates that the site data collection and analysis fail to support the requisite characteristics of one of the four scenarios. Specifically, while ACEH recognizes this is currently an active service station that is exempt from meeting the criteria onsite, the assumed groundwater flow direction appears to immediately underflow a residential neighborhood, with unknown construction styles (depth of foundation, slab on grade vs. crawl space, presence of any basements, etc.). The onsite groundwater concentration of benzene was recently 19,000 µg/l. Groundwater concentrations at the assumed downgradient property line were recently as high as 680 µg/l benzene (MW-6, and were on a notable increasing concentration trend), and oxygen concentrations were as low as 1.4% (VP-1) at a depth of five feet. Soil analytical data collected at 5 and 10 feet bgs in vapor probes VP-1 to VP-3 indicate that TPH is less than 100 mg/kg. The lack of knowledge of home construction, and the increasing benzene concentration trend does not allow use of scenarios 1 to 3, and the lack of recent vapor samples collected within the increasing benzene trend period does not appear to allow use of scenario 4. The collection of additional vapor samples at locations adjacent to the residents appears appropriate, and should be done in conjunction additional site investigations, as discussed above.

Alternatively, please provide justification of why the site satisfies the Media-Specific Criteria for Vapor Intrusion to Indoor Air in a SCM that assures that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to occupants of adjacent buildings.

Please note, that if direct measurement of soil gas is proposed, ensure that your strategy is consistent with the field sampling protocols described in the Department of Toxic Substances Control's Final Vapor Intrusion Guidance (October 2011). Consistent with the guidance, ACEH requires installation of permanent vapor wells to assess temporal and seasonal variations in soil gas concentrations.

6. **Revised Data Gap Investigation Work Plan and Focused Site Conceptual Model** – Please prepare Revised Data Gap Investigation Work Plan to address the technical comments listed above. Please support the scope of work in the Revised Data Gap Investigation Work Plan with a focused SCM and Data Quality Objectives (DQOs) that relate the data collection to each LTCP criteria. For example please clarify which scenario within each Media-Specific Criteria a sampling strategy is intended to apply to.

In order to expedite review, ACEH requests the focused SCM be presented in a tabular format that highlights the major SCM elements and associated data gaps, which need to be addressed to progress the site to case closure under the LTCP. Please see Attachment A "Site Conceptual Model Requisite Elements". Please sequence activities in the proposed revised data gap investigation scope of work to enable efficient data collection in the fewest mobilizations possible.

7. **Groundwater Monitoring** – The subject site is required to be sampled on a quarterly basis; however, three quarterly groundwater monitoring events have not been submitted to ACEH since the last submitted report dated August 16, 2013 (however, one has been submitted to Geotracker). Groundwater monitoring data for the third and fourth quarter 2013, and first quarter 2014 are now overdue. Therefore ACEH requests that groundwater monitoring reports be submitted in accordance with the following schedule.

TECHNICAL REPORT REQUEST

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

- **April 28, 2014** – Third and Fourth Quarter 2013 Groundwater Monitoring Reports
Files to be named: RO274_GWM_R_yyyy-mm-dd
- **April 28, 2014** – First Quarter 2014 Groundwater Monitoring Report
File to be named: RO274_GWM_R_yyyy-mm-dd
- **May 16, 2014** – Second Quarter 2014 Groundwater Monitoring Report
File to be named: RO274_GWM_R_yyyy-mm-dd
- **July 13, 2014** – Data Gap Investigation Plan and Focused Site Conceptual Model
File to be named: RO274_WP_SCM_R_yyyy-mm-dd
- **August 15, 2014** – Third Quarter 2014 Groundwater Monitoring Report
File to be named: RO274_GWM_R_yyyy-mm-dd
- **60 Days After Work Plan Approval** – Site Investigation Report and Updated SCM
File to be named: RO274_SWI_R_yyyy-mm-dd

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

Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>.

Responsible Parties
RO0000274
April 7, 2014, Page 6

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

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou,
email, c=US
Date: 2014.04.07 15:52:04 -07'00'

Mark E. Detterman, P.G., C.E.G.
Senior Hazardous Materials Specialist

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

Attachment A - Site Conceptual Model Requisite Elements

August 14, 1996 facsimile of old site plan and notes

cc: Nathan Lee, Connestoga-Rovers & Associates, Inc., 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to nlee@croworld.com)

Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)

Dilan Roe, ACEH (sent via electronic mail to dilan.roe@acgov.org)

Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)

Electronic file, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements: (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)	REVISION DATE: July 25, 2012
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

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

REQUIREMENTS

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

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

Submission Instructions

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

ATTACHMENT A

Site Conceptual Model Requisite Elements

ATTACHMENT A

Site Conceptual Model

The site conceptual model (SCM) is an essential decision-making and communication tool for all interested parties during the site characterization, remediation planning and implementation, and closure process. A SCM is a set of working hypotheses pertaining to all aspects of the contaminant release, including site geology, hydrogeology, release history, residual and dissolved contamination, attenuation mechanisms, pathways to nearby receptors, and likely magnitude of potential impacts to receptors.

The SCM is initially used to characterize the site and identify data gaps. As the investigation proceeds and the data gaps are filled, the working hypotheses are modified, and the overall SCM is refined and strengthened until it is said to be "validated". At this point, the focus of the SCM shifts from site characterization towards remedial technology evaluation and selection, and later remedy optimization, and forms the foundation for developing the most cost-effective corrective action plan to protect existing and potential receptors.

For ease of review, Alameda County Environmental Health (ACEH) requests utilization of tabular formats to (1) highlight the major SCM elements and their associated data gaps which need to be addressed to progress the site to case closure (see Table 1 of attached example), and (2) highlight the identified data gaps and proposed investigation activities (see Table 2 of the attached example). ACEH requests that the tables presenting the SCM elements, data gaps, and proposed investigation activities be updated as appropriate at each stage of the project and submitted with work plans, feasibility studies, corrective action plans, and requests for closures to support proposed work, conclusions, and/or recommendations.

The SCM should incorporate, but is not limited to, the topics listed below. Please support the SCM with the use of large-scaled maps and graphics, tables, and conceptual diagrams to illustrate key points. Please include an extended site map(s) utilizing an aerial photographic base map with sufficient resolution to show the facility, delineation of streets and property boundaries within the adjacent neighborhood, downgradient irrigation wells, and proposed locations of transects, monitoring wells, and soil vapor probes.

- a. Regional and local (on-site and off-site) geology and hydrogeology. Include a discussion of the surface geology (e.g., soil types, soil parameters, outcrops, faulting), subsurface geology (e.g., stratigraphy, continuity, and connectivity), and hydrogeology (e.g., water-bearing zones, hydrologic parameters, impermeable strata). Please include a structural contour map (top of unit) and isopach map for the aquitard that is presumed to separate your release from the deeper aquifer(s), cross sections, soil boring and monitoring well logs and locations, and copies of regional geologic maps.
- b. Analysis of the hydraulic flow system in the vicinity of the site. Include rose diagrams for depicting groundwater gradients. The rose diagram shall be plotted on groundwater elevation contour maps and updated in all future reports submitted for your site. Please address changes due to seasonal precipitation and groundwater pumping, and evaluate the potential interconnection between shallow and deep aquifers. Please include an analysis of vertical hydraulic gradients, and effects of pumping rates on hydraulic head from nearby water supply wells, if appropriate. Include hydraulic head in the different water bearing zones and hydrographs of all monitoring wells.
- c. Release history, including potential source(s) of releases, potential contaminants of concern (COC) associated with each potential release, confirmed source locations, confirmed release locations, and existing delineation of release areas. Address primary leak source(s) (e.g., a tank, sump, pipeline, etc.) and secondary sources (e.g., high-

ATTACHMENT A

Site Conceptual Model (continued)

concentration contaminants in low-permeability lithologic soil units that sustain groundwater or vapor plumes). Include local and regional plan view maps that illustrate the location of sources (former facilities, piping, tanks, etc.).

- d. Plume (soil gas and groundwater) development and dynamics including aging of source(s), phase distribution (NAPL, dissolved, vapor, residual), diving plumes, attenuation mechanisms, migration routes, preferential pathways (geologic and anthropogenic), magnitude of chemicals of concern and spatial and temporal changes in concentrations, and contaminant fate and transport. Please include three-dimensional plume maps for groundwater and two-dimensional soil vapor plume plan view maps to provide an accurate depiction of the contaminant distribution of each COC.
- e. Summary tables of chemical concentrations in different media (i.e., soil, groundwater, and soil vapor). Please include applicable environmental screening levels on all tables. Include graphs of contaminant concentrations versus time.
- f. Current and historic facility structures (e.g., buildings, drain systems, sewer systems, underground utilities, etc.) and physical features including topographical features (e.g., hills, gradients, surface vegetation, or pavement) and surface water features (e.g. routes of drainage ditches, links to water bodies). Please include current and historic site maps.
- g. Current and historic site operations/processes (e.g., parts cleaning, chemical storage areas, manufacturing, etc.).
- h. Other contaminant release sites in the vicinity of the site. Hydrogeologic and contaminant data from those sites may prove helpful in testing certain hypotheses for the SCM. Include a summary of work and technical findings from nearby release sites, including the two adjacent closed LUFT sites, (i.e., Montgomery Ward site and the Quest Laboratory site).
- i. Land uses and exposure scenarios on the facility and adjacent properties. Include beneficial resources (e.g., groundwater classification, wetlands, natural resources, etc.), resource use locations (e.g., water supply wells, surface water intakes), subpopulation types and locations (e.g., schools, hospitals, day care centers, etc.), exposure scenarios (e.g. residential, industrial, recreational, farming), and exposure pathways, and potential threat to sensitive receptors. Include an analysis of the contaminant volatilization from the subsurface to indoor/outdoor air exposure route (i.e., vapor pathway). Please include copies of Sanborn maps and aerial photographs, as appropriate.
- j. Identification and listing of specific data gaps that require further investigation during subsequent phases of work. Proposed activities to investigate and fill data gaps identified.

TABLE 1
INITIAL SITE CONCEPTUAL MODEL

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Geology and Hydrogeology	Regional	<p>The site is in the northwest portion of the Livermore Valley, which consists of a structural trough within the Diablo Range and contains the Livermore Valley Groundwater Basin (referred to as "the Basin") (DWR, 2006). Several faults traverse the Basin, which act as barriers to groundwater flow, as evidenced by large differences in water levels between the upgradient and downgradient sides of these faults (DWR, 2006). The Basin is divided into 12 groundwater basins, which are defined by faults and non-water-bearing geologic units (DWR, 1974).</p> <p>The hydrogeology of the Basin consists of a thick sequence of fresh-water-bearing continental deposits from alluvial fans, outwash plains, and lacustrine environments to up to approximately 5,000 feet bgs (DWR, 2006). Three defined fresh-water bearing geologic units exist within the Basin: Holocene Valley Fill (up to approximately 400 feet bgs in the central portion of the Basin), the Plio-Pleistocene Livermore Formation (generally between approximately 400 and 4,000 feet bgs in the central portion of the Basin), and the Pliocene Tassajara Formation (generally between approximately 250 and 5,000 or more feet bgs) (DWR, 1974). The Valley Fill units in the western portion of the Basin are capped by up to 40 feet of clay (DWR, 2006).</p>	None	NA
	Site	<p>Geology: Borings advanced at the site indicate that subsurface materials consist primarily of finer-grained deposits (clay, sandy clay, silt and sandy silt) with interbedded sand lenses to 20 feet below ground surface (bgs), the approximate depth to which these borings were advanced. The documented lithology for one on-site boring that was logged to approximately 45 feet bgs indicates that beyond approximately 20 feet bgs, fine-grained soils are present to approximately 45 feet bgs. A cone penetrometer technology test indicated the presence of sandier lenses from approximately 45 to 58 feet bgs and even coarser materials (interbedded with finer-grained materials) from approximately 58 feet to 75 feet bgs, the total depth drilled. The lithology documented at the site is similar to that reported at other nearby sites, specifically the Montgomery Ward site (7575 Dublin Boulevard), the Quest laboratory site (6511 Golden Gate Drive), the Shell-branded Service Station site (11989 Dublin Boulevard), and the Chevron site (7007 San Ramon Road).</p> <p>Hydrogeology: Shallow groundwater has been encountered at depths of approximately 9 to 15 feet bgs. The hydraulic gradient and groundwater flow direction have not been specifically evaluated at the site.</p>	<p>As noted, most borings at the site have been advanced to approximately 20 feet bgs, and one boring has been advanced and logged to 45 feet bgs; CPT data was collected to 75 feet bgs at one location. Lithologic data will be obtained from additional borings that will be advanced on site to further the understanding of the subsurface, especially with respect to deeper lithology.</p> <p>The on-site shallow groundwater horizontal gradient has not been confirmed. Additionally, it is not known if there may be a vertical component to the hydraulic gradient.</p>	<p>Two direct push borings and four multi-port wells will be advanced to depth (up to approximately 75 feet bgs) and soil lithology will be logged. See items 4 and 5 on Table 2.</p> <p>Shallow and deeper groundwater monitoring wells will be installed to provide information on lateral and vertical gradients. See Items 2 and 5 on Table 2.</p>
Surface Water Bodies		The closest surface water bodies are culverted creeks. Martin Canyon Creek flows from a gully west of the site, enters a culvert north of the site, and then bends to the south, passing approximately 1,000 feet east of the site before flowing into the Alamo Canal. Dublin Creek flows from a gully west of the site, enters a culvert approximately 750 feet south of the site, and then joins Martin Canyon Creek approximately 750 feet southeast of the site.	None	NA
Nearby Wells		The State Water Resources Control Board's GeoTracker GAMA website includes information regarding the approximate locations of water supply wells in California. In the vicinity of the site, the closest water supply wells presented on this website are depicted approximately 2 miles southeast of the site; the locations shown are approximate (within 1 mile of actual location for California Department of Public Health supply wells and 0.5 mile for other supply wells). No water-producing wells were identified within 1/4 mile of the site in the well survey conducted for the Quest Laboratory site (6511 Golden Gate Drive; documented in 2009); information documented in a 2005 report for the Chevron site at 7007 San Ramon Road indicates that a water-producing well may exist within 1/2 mile of the site.	A formal well survey is needed to identify water-producing, monitoring, cathodic protection, and dewatering wells.	Obtain data regarding nearby, permitted wells from the California Department of Water Resources and Zone 7 Water Agency (Item 11 on Table 2).

**TABLE 2
DATA GAPS AND PROPOSED INVESTIGATION**

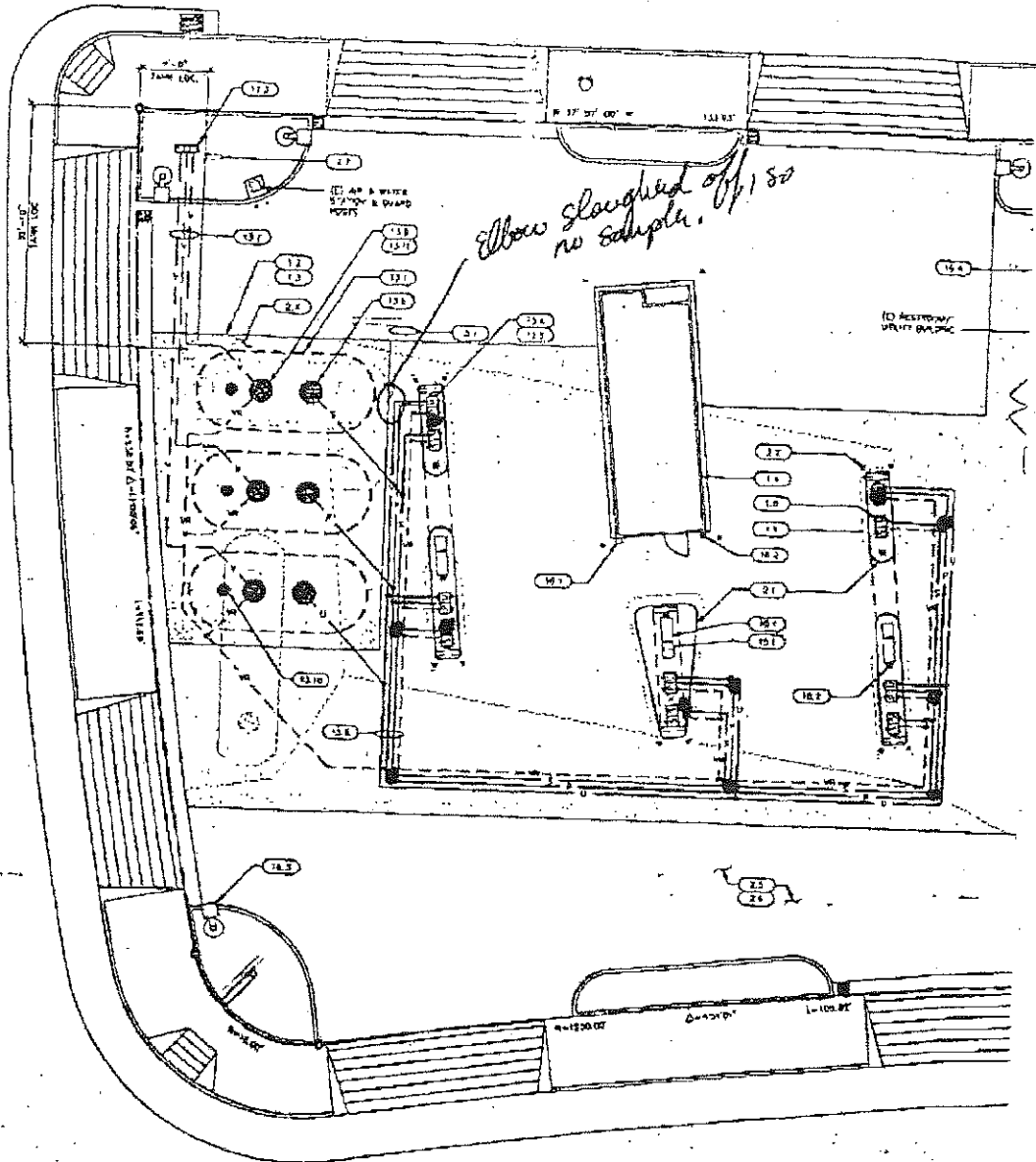
Item	Data Gap	Proposed Investigation	Rationale	Analysis
5	Evaluate the possible presence of impacts to deeper groundwater. Evaluate deeper groundwater concentration trends over time. Obtain data regarding the vertical groundwater gradient. Obtain more lithological data below 20 feet bgs.	Install four continuous multichannel tubing (CMT) groundwater monitoring wells (aka multi-port wells) to approximately 65 feet bgs in the northern parking lot with ports at three depths (monitoring well locations may be adjusted pending results of shallow grab groundwater samples; we will discuss any potential changes with ACEH before proceeding). Groundwater monitoring frequency to be determined. Soil samples will be collected only if there are field indications of impacts. Soil lithology will be logged. However, information regarding the moisture content of soil may not be reliable using sonic drilling technology (two borings will be logged using direct push technology; see Item 4, above).	One well is proposed at the western (upgradient) property boundary to confirm that there are no deeper groundwater impacts from upgradient. Two wells are proposed near the center of the northern parking lot to evaluate potential impacts in an area where deeper impacts, if any, would most likely be found. One well is proposed at the eastern (downgradient) property boundary to confirm that there are no impacts extending off-site. Port depths will be chosen based on the locations of saturated soils (as logged in direct push borings; see Item 4, above), but are expected at approximately 15, 45, and 60 feet bgs.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
6	Evaluate possible off-site migration of impacted soil vapor in the downgradient direction (east). Evaluate concentration trends over time.	Install 4 temporary nested soil vapor probes at approximately 4 and 8 feet bgs along the eastern property boundary. Based on the results of the sampling, two sets of nested probes will be converted to vapor monitoring wells to allow for evaluation of VOC concentration trends over time.	Available data indicate that PCE and TCE are present in soil vapor in the eastern portion of the northern parking lot. Samples are proposed on approximately 50-foot intervals along the eastern property boundary to provide a transect of concentrations through the vapor plume. The depths of 4 and 8 feet bgs are chosen to provide data closest to the source (i.e., groundwater) while avoiding saturated soil, and also provide shallower data to help evaluate potential attenuation within the soil column. Two sets of nested vapor probes will be converted into vapor monitoring wells (by installing well boxes at ground surface); the locations of the permanent wells will be chosen based on the results of samples from the temporary probes.	<i>Soil vapor:</i> VOCs by EPA Method TO-15.
7	Evaluate potential for off-site migration of impacted groundwater in the downgradient direction (east).	Advance two borings to approximately 20 feet bgs in the parking lot of the property east of the Crown site for collection of grab groundwater samples.	Two borings are proposed off-site, on the property east of the Crown site, just east of the building in the expected area of highest potential VOC concentrations.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
8	Evaluate VOC concentrations just north of the highest concentration area.	Advance two borings to approximately 20 feet bgs north of Building A for collection of soil and grab groundwater samples. Soil samples will be collected at two depths in the vadose zone. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	The highest concentrations of PCE in groundwater were detected at boring NM-B-32, just north of Building A. The nearest available data to the north are approximately 75 feet away. One of the borings will be advanced approximately 20 feet north of NM-B-32 to provide data close to the highest concentration area. A second boring will be advanced approximately halfway between the first boring and former boring NM-B-33 to provide additional spatial data for contouring purposes. These borings will be part of a transect in the highest concentration area.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. <i>Soil:</i> VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
9	Evaluate VOC concentrations in soil vapor in the south parcel of the site.	Install four temporary soil vapor probes at approximately 5 feet bgs around boring SV-25, where PCE was detected in soil vapor at a low concentration.	PCE was detected in soil vapor sample SV-25 in the southern parcel, although was not detected in groundwater in that area. Three probes will be installed approximately 30 feet from of boring SV-25 to attempt to delineate the extent of impacts. A fourth probe is proposed west of the original sample, close to the property boundary and the location of mapped utility lines, which may be a potential conduit, to evaluate potential impacts from the west.	<i>Soil vapor:</i> VOCs by EPA Method TO-15.
10	Obtain additional information regarding subsurface structures and utilities to further evaluate migration pathways and sources.	Ground penetrating radar (GPR) and other utility locating methodologies will be used, as appropriate, to further evaluate the presence of unknown utilities and structures at the site.	Utilities have been identified at the site that include an on-site sewer lateral and drain line, and shallow water, electric, and gas lines. Given the current understanding of the distribution of PCE in groundwater at the site, it is possible that other subsurface utilities, and specifically sewer laterals, exist that may act as a source or migration pathway for distribution of VOCs in the subsurface.	NA

Sample locations (~ 2' bgs)

HALLIDAY AVENUE

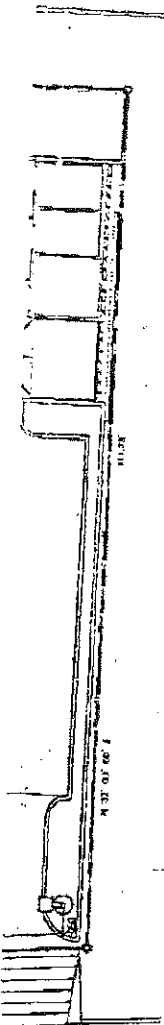
73RD AVENUE

BANCROFT AVENUE



MAY 10, 1996 10:16 5446 130

DRAWING NO. 82333A1



- REVISIONS**
1. THE INFORMATION REGARDING THE SITE WAS OBTAINED FROM AN EXISTING CONTRACT BY A PRIVATE COMPANY CONSULTING AND ENGINEERING FIRM. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING WORK.
 2. CONTRACTOR RESPONSIBLE FOR THE WORK SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 3. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES AND STRUCTURES RELOCATED OR DELETED AS NECESSARY TO ACCOMMODATE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 4. CONTRACTOR SHALL CLEAN ALL SURFACES OF OIL AND GREASE AND REPAIR AS NECESSARY TO MAKE EXISTING UTILITIES WORKING.
- GENERAL NOTES**
1. THE CONTRACTOR SHALL INSTALL ALL PIPING AND FITTINGS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 3. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 4. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 5. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
- CONCRETE NOTES**
1. CONTRACTOR SHALL VERIFY THAT THE FOUNDATION IS NOT IMPAIRED BY NEW CITY IMPROVEMENTS IN THE AREA. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 2. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 3. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 4. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 5. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.

- KEY NOTES**
1. THE INFORMATION REGARDING THE SITE WAS OBTAINED FROM AN EXISTING CONTRACT BY A PRIVATE COMPANY CONSULTING AND ENGINEERING FIRM. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING WORK.
 2. CONTRACTOR RESPONSIBLE FOR THE WORK SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 3. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES AND STRUCTURES RELOCATED OR DELETED AS NECESSARY TO ACCOMMODATE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 4. CONTRACTOR SHALL CLEAN ALL SURFACES OF OIL AND GREASE AND REPAIR AS NECESSARY TO MAKE EXISTING UTILITIES WORKING.
- GENERAL NOTES**
1. THE CONTRACTOR SHALL INSTALL ALL PIPING AND FITTINGS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 3. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 4. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 5. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
- CONCRETE NOTES**
1. CONTRACTOR SHALL VERIFY THAT THE FOUNDATION IS NOT IMPAIRED BY NEW CITY IMPROVEMENTS IN THE AREA. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
 2. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 3. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 4. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.
 5. ALL NEW CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER AGENCY.

SITE PLAN ABBREVIATIONS AND LEGEND

COL	- COLUMN	P.O.C.	- POINT OF CURVATURE
ED	- EXISTING	R	- RADIUS
ED	- EXISTING	R.O.W.	- RIGHT OF WAY
F.C.	- FACE OF CURVE	SH	- SHEET
F.P.P.	- FIBERGLASS REINFORCED PIPE	SM	- SIMILAR
M	- NEW	SP	- SPECIAL

	WATER METER
	CATCH BASIN
	VALVE
	MANHOLE
	MONITORING WELL
	DISPENSER
	VENT STACK
	(R) CONSTRUCTION TO BE REMOVED
	(M) CONCRETE SLAB EDGE
	NEW PROPOSED CONCRETE CURB PATH SLAB, SEE DETAIL OR SHEET A-1
	HAZARD

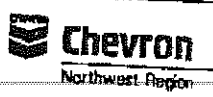
U	(1/2) UNGRADED PRODUCT, SINGLE/SLOPE 4% P.P., SLOPE TOWARD TANK
P	(1/2) UNGRADED PRODUCT, SINGLE/SLOPE 4% P.P., SLOPE TOWARD TANK
S	(1/2) UNGRADED PRODUCT, SINGLE/SLOPE 4% P.P., SLOPE TOWARD TANK
V	(1/2) VENT, SINGLE/DOUBLE WALL P.P., SLOPE TOWARD TANK
W	(1/2) WATER, SINGLE/DOUBLE WALL P.P., SLOPE TOWARD UNGRADED TANKS
30	30" - 3/4" PVC DISCHARGE, SEE ALL NOTES
30	30" - 3/4" PVC SANITARY SEWER LINE, SEE ALL NOTES
12	12" TYPICAL

ACCESSIBLE PATH @ 3% MAX SLOPE, 24 CROSS SLOPE @ 1/2" TRESHOLD AND MAX.

NO.	DATE	REVISIONS	INITIALS

SITE AND PIPING PLAN

6-3322
7225 BANCROFT AVENUE
OAKLAND, CA

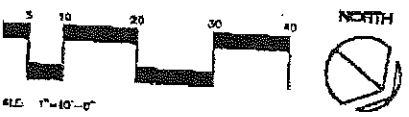


ROBERT H. LEE & ASSOCIATES, INC.
 1000 NORTH BAYVIEW, SUITE 100, OAKLAND, CA 94612
 (916) 763-1000
 FAX: (916) 763-1001
 WWW: RHLA.COM

NO.	DATE	REVISIONS	INITIALS

SCALE: 1" = 10'-0"

A-1



From: Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]
Sent: Friday, July 18, 2014 6:18 PM
To: Fischer, Alexis N; Roe, Dilan, Env. Health
Subject: RE: RO0274-Chevron 93322-7225 Bancroft Oakland-SCM/Data Gap Work Plan-Extension request

Alexis and Nate,
As discussed in the meeting today, please use this email to document ACEH concurrence to extend the deliverable date to September 30th.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org
PDF copies of case files can be downloaded at:
<http://www.acgov.org/aceh/lop/ust.htm>

From: Fischer, Alexis N [<mailto:AFischer@chevron.com>]
Sent: Thursday, July 10, 2014 11:27 AM
To: Roe, Dilan, Env. Health; Detterman, Mark, Env. Health
Subject: RO0274-Chevron 93322-7225 Bancroft Oakland-SCM/Data Gap Work Plan-Extension request

Dear Mark and Dilan,

Seeking your approval with regards to an extension request for the Site Conceptual Model and Data Gap Work Plan which was requested by Alameda County Environmental Health (ACEH) in a letter dated April 7, 2014 and is due on July 13, 2014 for the facility referenced above. CRA has worked on multiple deliverables that have been submitted and are currently being worked on over the last month and a half and they have informed me that additional time will be necessary in order to complete the Site Conceptual Model and Data Gap Work Plan. Therefore, an extension of **October 3, 2014** for the submittal of both the Site Conceptual Model and Data Gap Work Plan is requested.

Thank you for your consideration and support.

Regards,

Alexis N. Fischer
Property Specialist - Claims & Agreements - West
Chevron's Environmental Management Company - MBU
6101 Bollinger Canyon Road
San Ramon, Ca 94583
Direct Line: (925)790-6441 / Cell: (925)786-3760
AFischer@Chevron.com

From: Lee, Nathan

Sent: Tuesday, September 30, 2014 5:29 PM

To: 'Detterman, Mark, Env. Health'

Cc: Roe, Dilan, Env. Health; 'Fischer, Alexis N'

Subject: RO0274-Chevron 93322-7225 Bancroft Oakland-SCM/Data Gap Work Plan-Update

Mark,

Conestoga-Rovers and Associates (CRA) is notifying you on behalf of Chevron Environmental Management Company (EMC), that CRA's is experiencing server issues. As discussed with you over the phone, the files that contain the *Site Conceptual Model and Data Gap Work Plan* that is due today are located on the server that can not be accessed as this time. CRA's IT Staff is working on the issue and the server should be accessible tomorrow. Therefore the *Site Conceptual Model and Data Gap Work Plan* will be submitted tomorrow October 1, 2014 as long as the server is back online. I will update you if, for some reason the server issues continue tomorrow.

Thank you for your patience and understanding.

Thanks,

Nathan Lee, P.G.

Conestoga-Rovers & Associates (CRA)

2300 Clayton Road, Suite 920

Concord, CA 94520

Phone: 925.849.1003

Fax: 510.420.9170

Cell: 510.385.2499

Email: nlee@CRAworld.com

Appendix B

EDR Report



EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**311806 - Oakland, CA
7225 Bancroft Ave.
Oakland, CA 94605**

Inquiry Number: 1969211.5

July 02, 2007

The Standard in Environmental Risk Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Date EDR Searched Historical Sources:

Aerial Photography July 02, 2007

Target Property:

7225 Bancroft Ave.

Oakland, CA 94605

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1958	Aerial Photograph. Scale: 1"=555'	Flight Year: 1958	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	WSA
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1969211.5

YEAR: 1939

| = 555'





INQUIRY #: 1969211.5

YEAR: 1946

| = 655'





INQUIRY #: 1969211.5

YEAR: 1958

| = 555'





INQUIRY #: 1969211.5

YEAR: 1965

| = 333'





INQUIRY #: 1969211.5

YEAR: 1982

| = 690'





INQUIRY #: 1969211.5

YEAR: 1993

| = 666'



Certified Sanborn® Map Report



Sanborn® Library search results
Certification # ECC7-419B-9F2A

**311806 - Oakland CA
7225 Bancroft Ave.
Oakland, CA 94605**

Inquiry Number 1969211.3S

July 02, 2007



The Standard in Environmental Risk Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

Certified Sanborn® Map Report

7/02/07

Site Name:

311806 - Oakland CA
7225 Bancroft Ave.
Oakland, CA 94605

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631

EDR Inquiry # 1969211.3S

Contact: Kelly Connolly



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Conestoga-Rovers & Associates were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, State, Zip: Oakland, CA 94605
Cross Street:
P.O. # 311806 - Oaklan
Project: 311806 - Oaklan
Certification # ECC7-419B-9F2A



Sanborn® Library search results
Certification # ECC7-419B-9F2A

Maps Identified - Number of maps indicated within "()"

1969 (4) 1950 (4)
1968 (4) 1925 (4)
1966 (4) 1912 (1)
1960 (4)
1959 (4)
1952 (4)

Total Maps: 33

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

Limited Permission To Make Copies

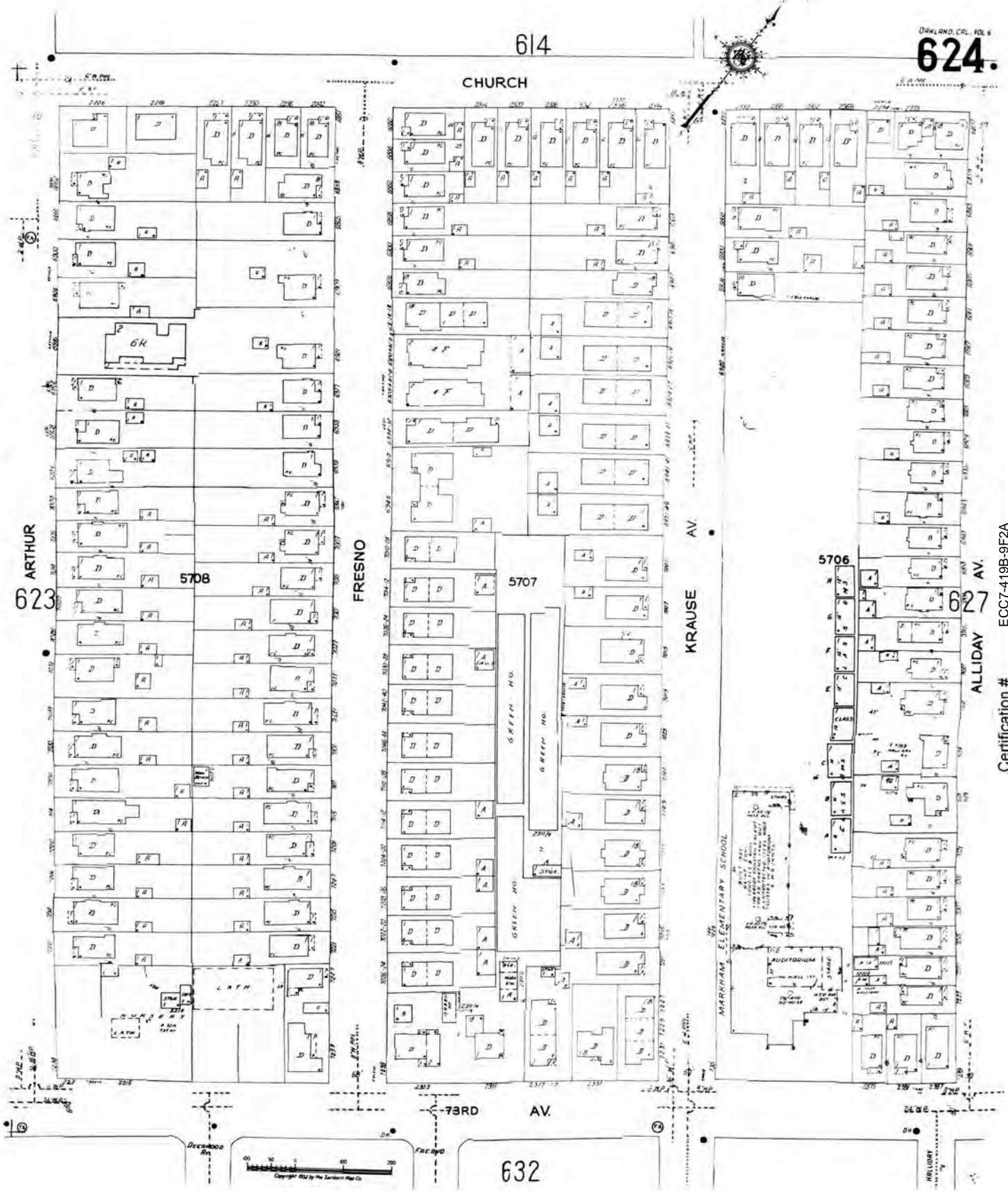
Conestoga-Rovers & Associates (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



Certification #

ECC7-419B-9F2A

Certification #

ECC7-419B-9F2A

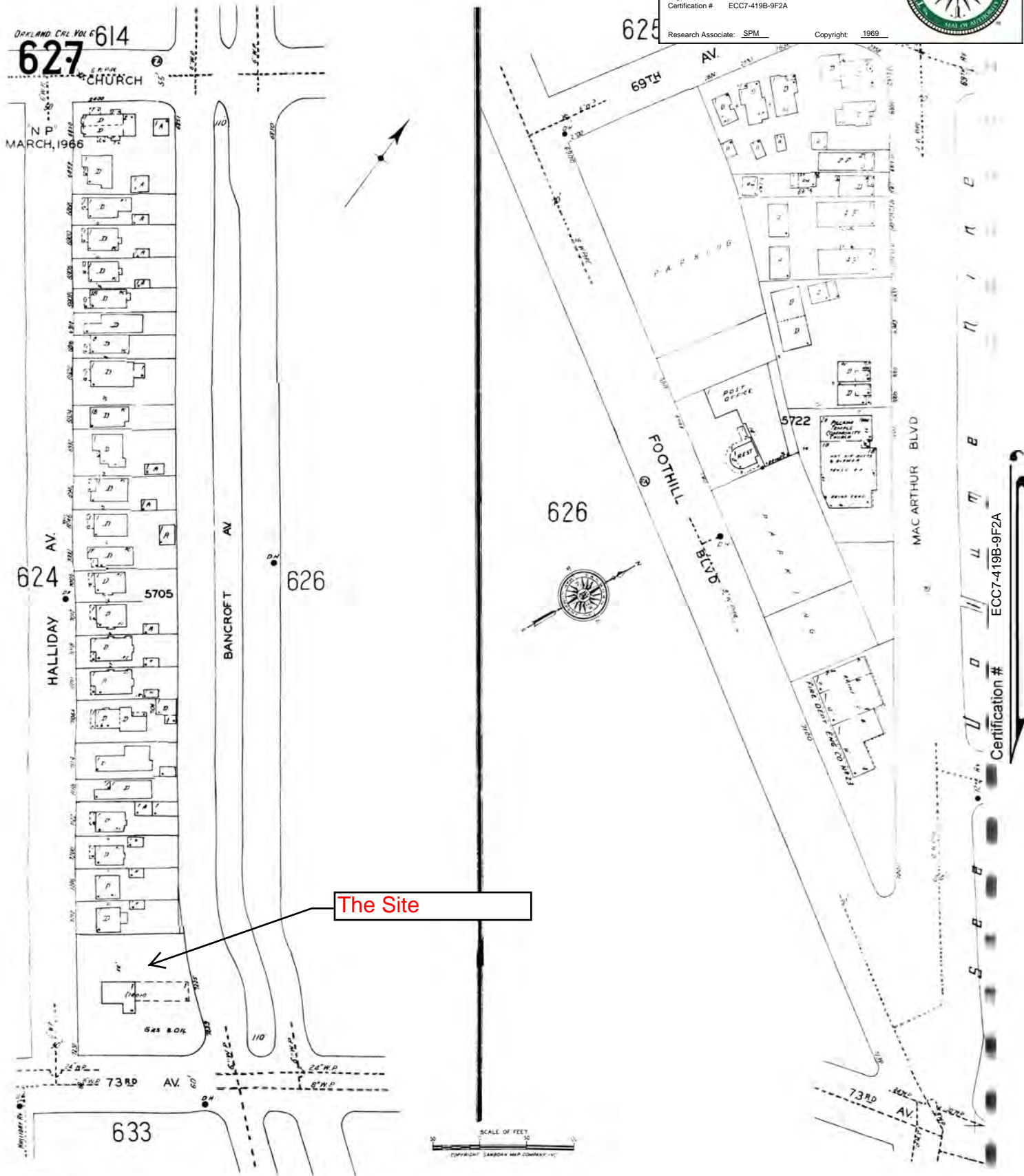
Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification # ECC7-419B-9F2A



Research Associate: SPM Copyright: 1969



Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



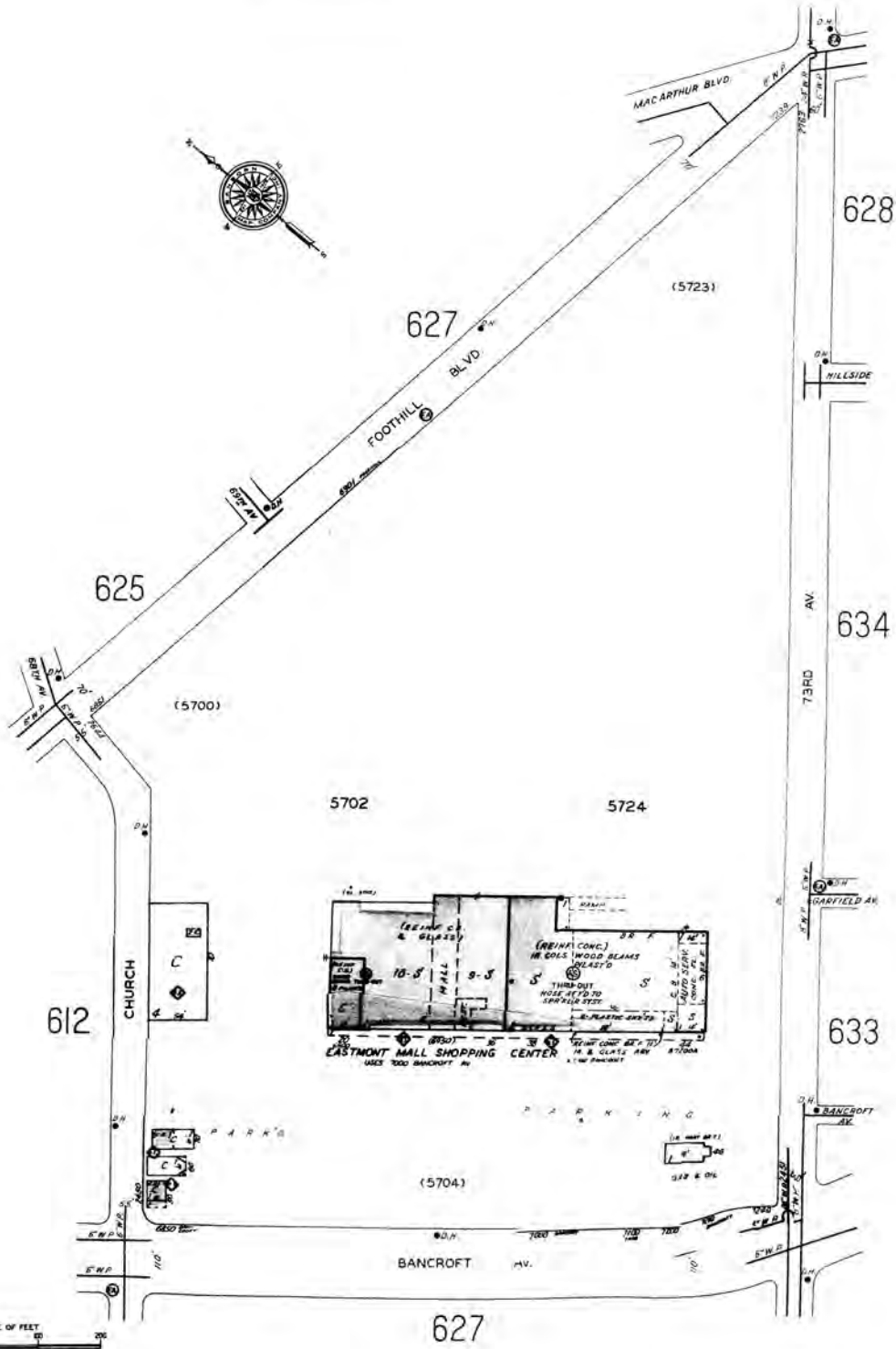
Research Associate: SPM Copyright: 1969

WEIGHTED LINES INDICATE MASONRY EXTERIOR WALLS OR INTERIOR FIRE WALLS IN NON-RESIDENTIAL BUILDINGS

OAKLAND, CAL - VOL. 6

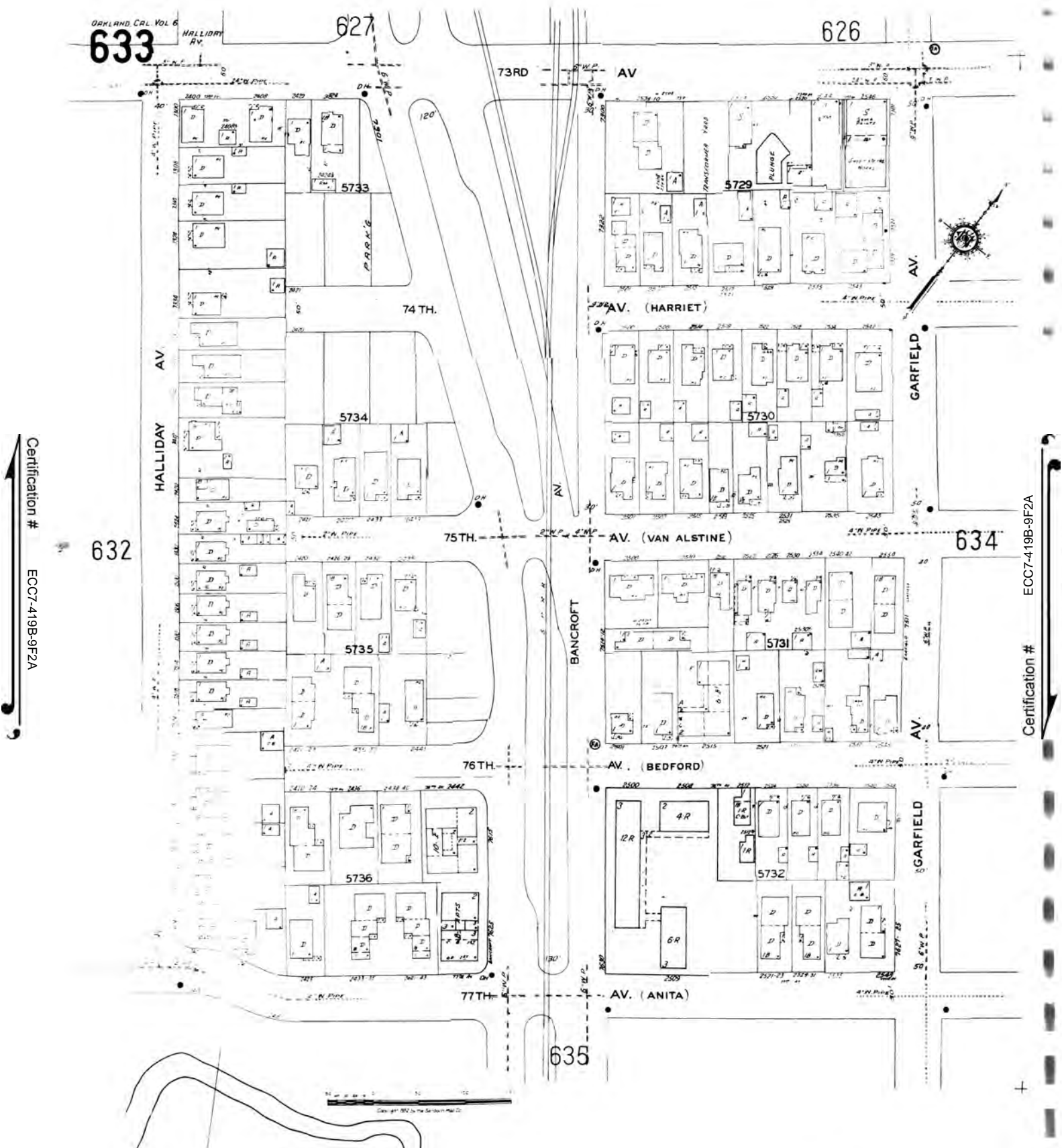
626
(625-627)

"N"
MAR. 1966



Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A



Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A

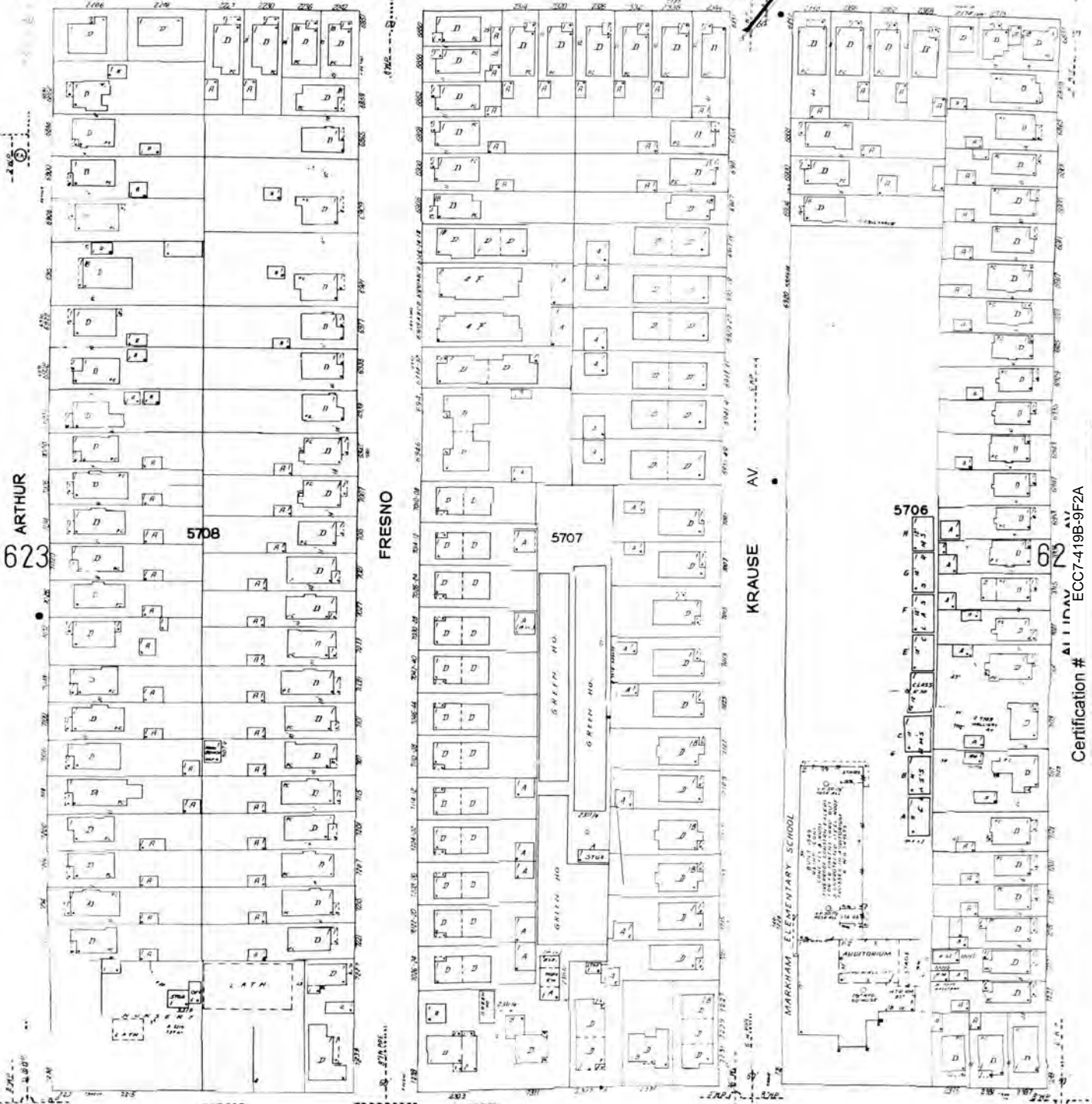
Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



OAKLAND, CAL. VOL 5
624.

614

CHURCH



ARTHUR
623

5708

FRESNO

5707

KRAUSE
AV

5706

624

ALL IN AV
ECC7-419B-9F2A

73RD AV.

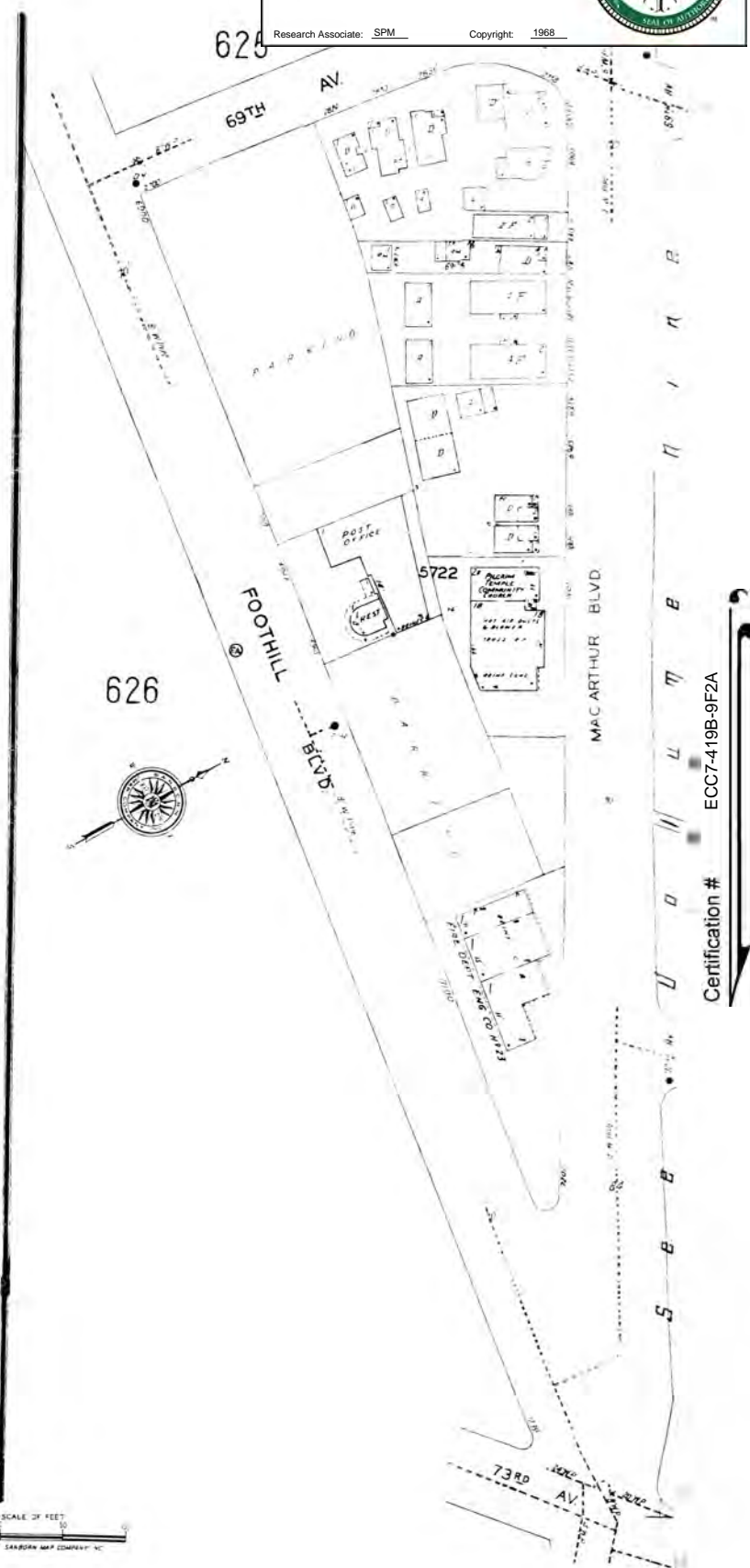
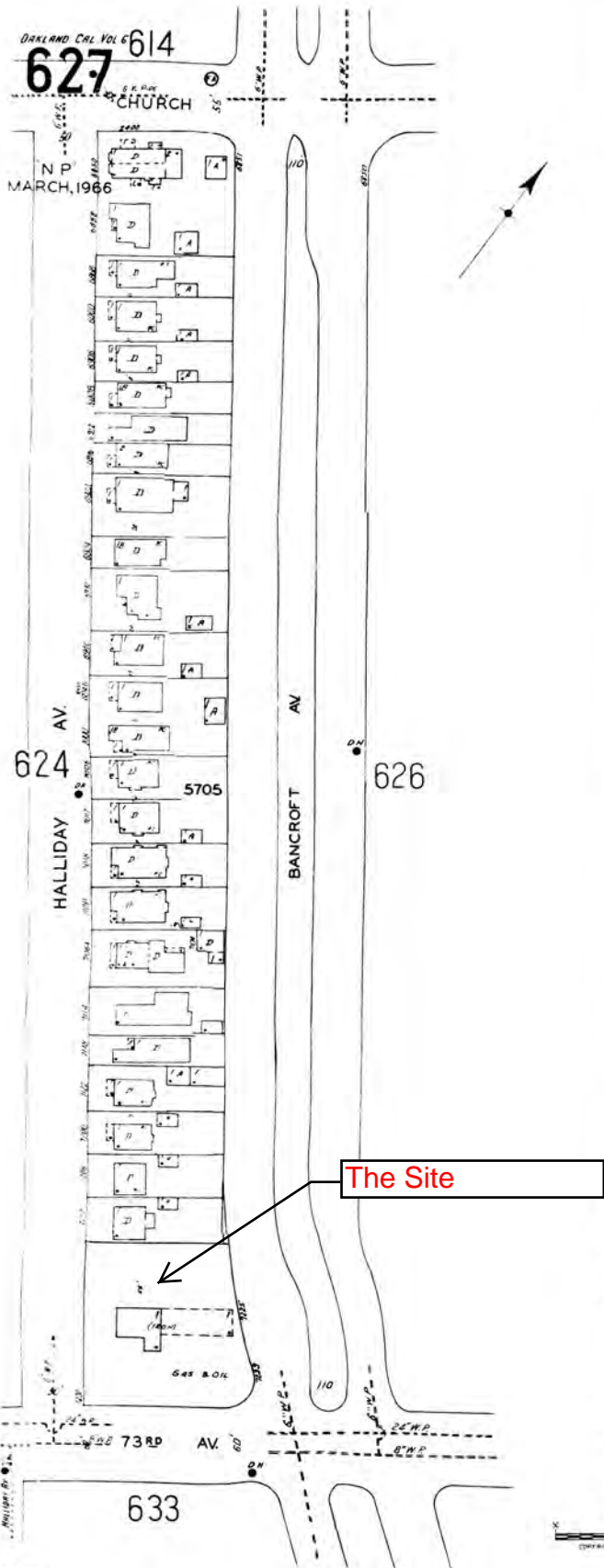
632



Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification #: ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification # ECC7-419B-9F2A

Research Associate: SPM Copyright: 1968



Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Research Associate: SPM Copyright: 1968

WEIGHTED LINES INDICATE MASONRY EXTERIOR WALLS OR INTERIOR FIRE WALLS IN NON-RESIDENTIAL BUILDINGS

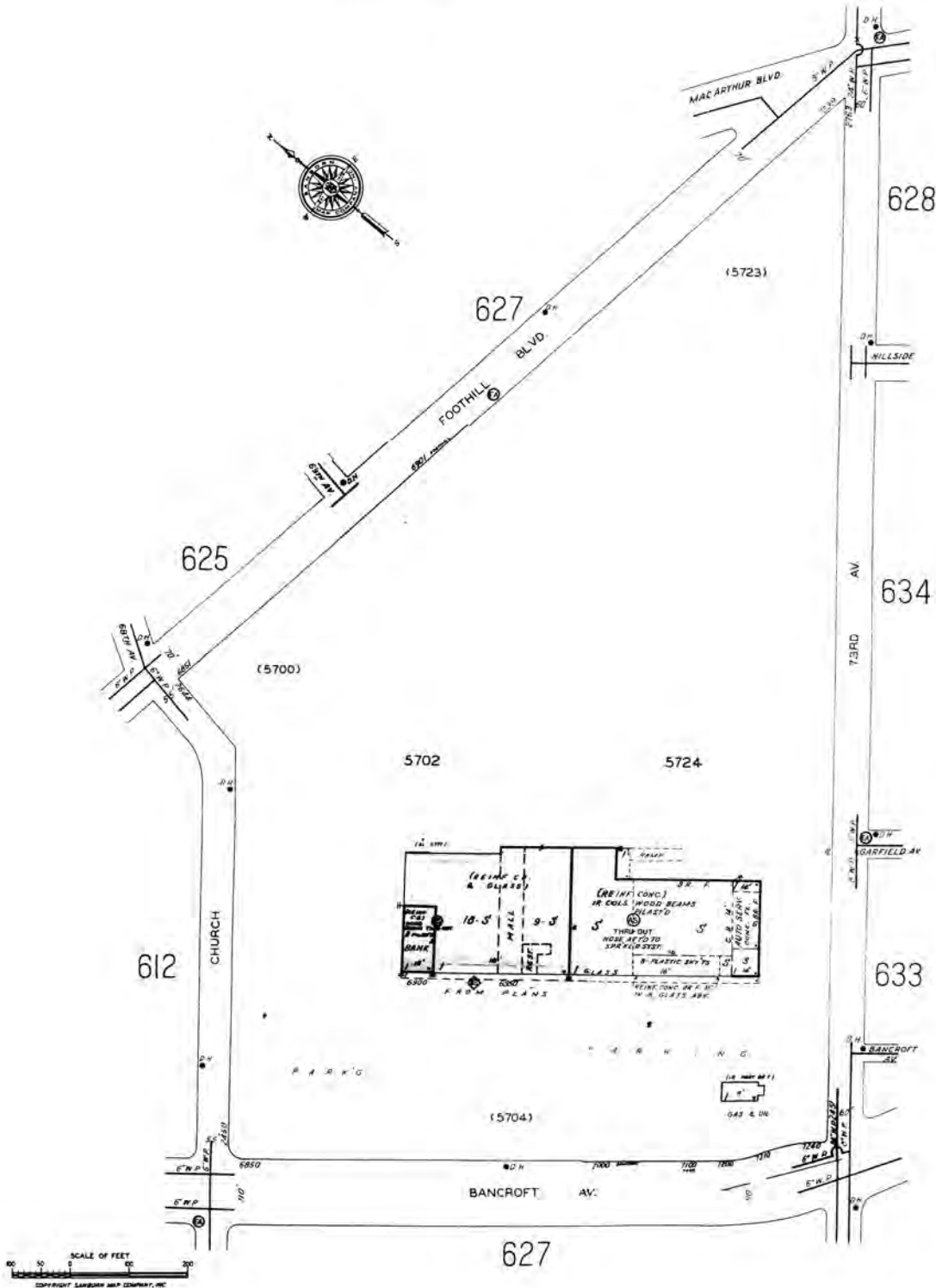
OAKLAND, CAL - VOL 5

626
(625-627)

"N"
MAR. 1966

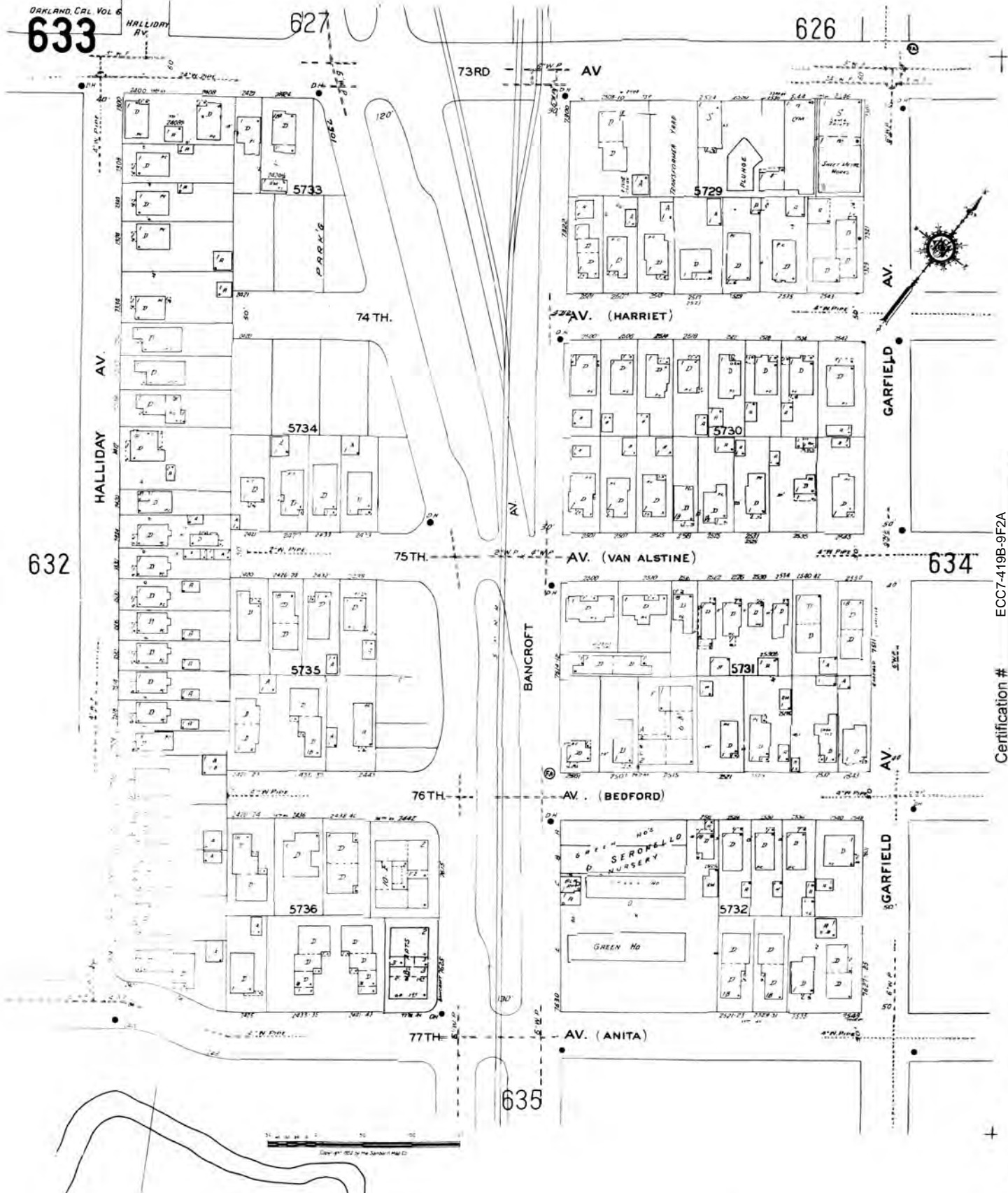
Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A



SCALE OF FEET
COPYRIGHT SANBORN MAP COMPANY, INC.

(P-55634 P-C-B-W)



Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Research Associate: SPM Copyright: 1966

WEIGHTED LINES INDICATE MASONRY EXTERIOR WALLS OR INTERIOR FIRE WALLS IN NON-RESIDENTIAL BUILDINGS.

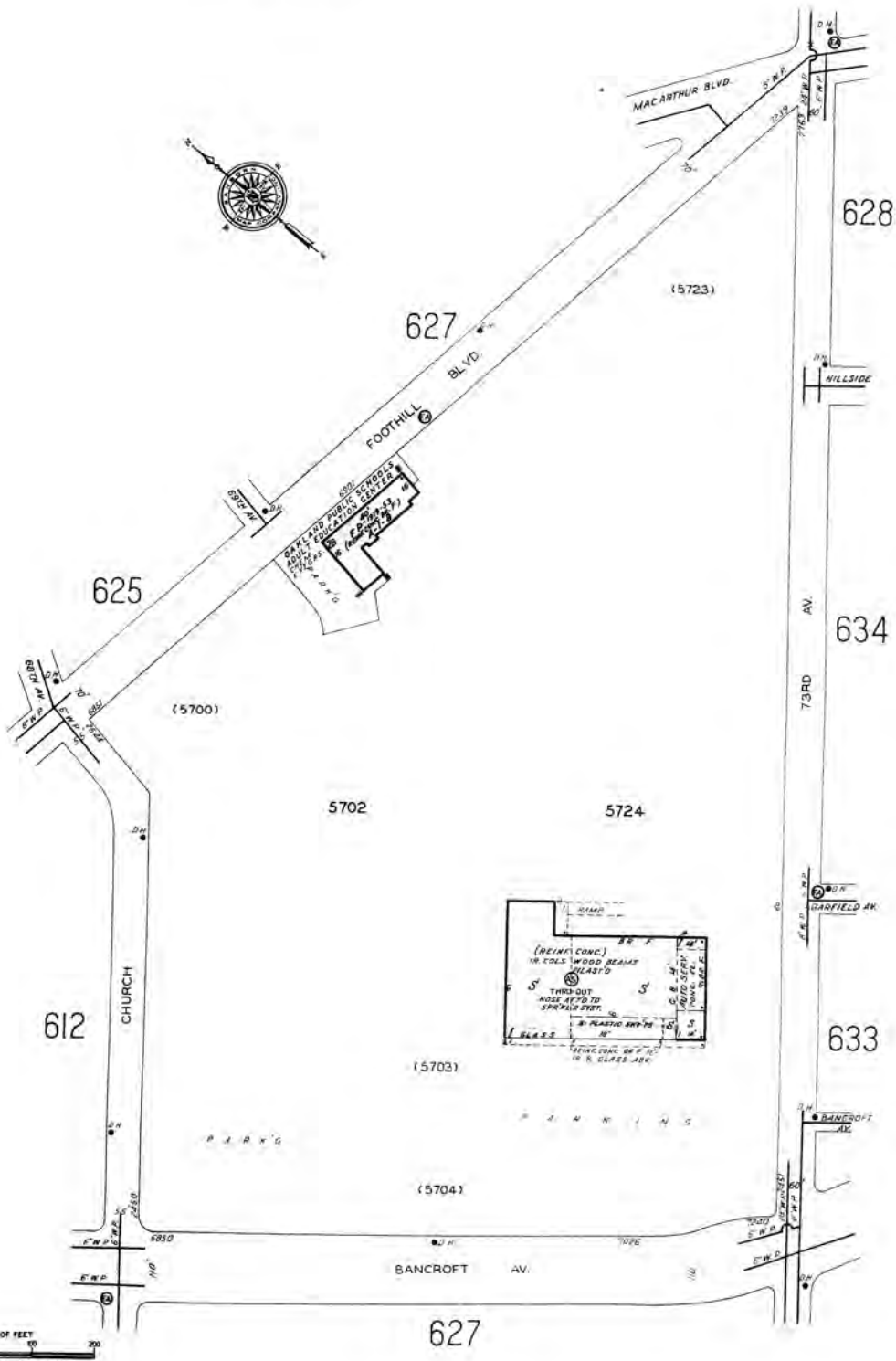
OAKLAND, CAL. - VOL. 6

626
(625-627)

"N"
MAR. 1966

Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A

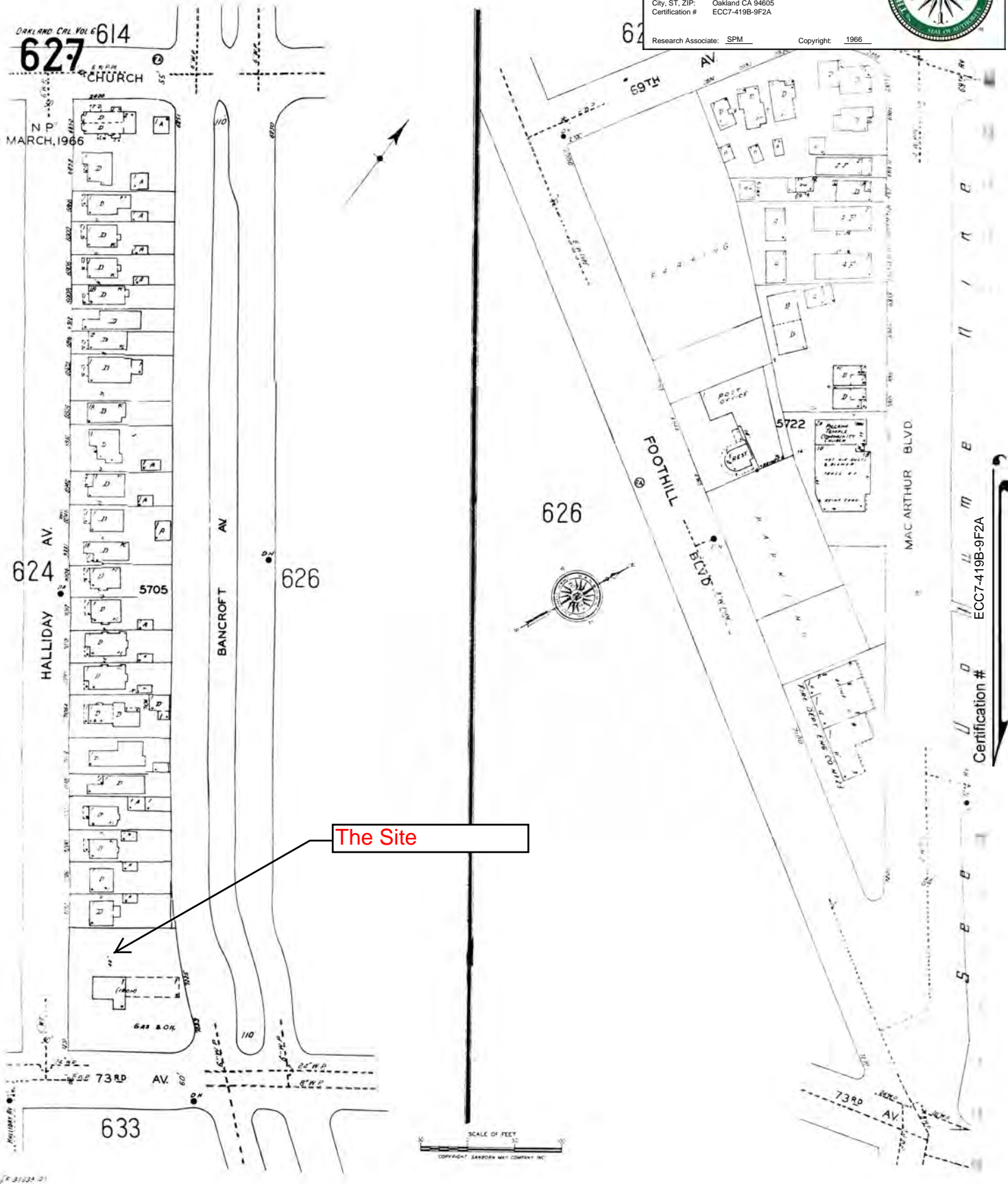


PH-55638 A-C (R)

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Research Associate: SPM Copyright: 1966



The Site

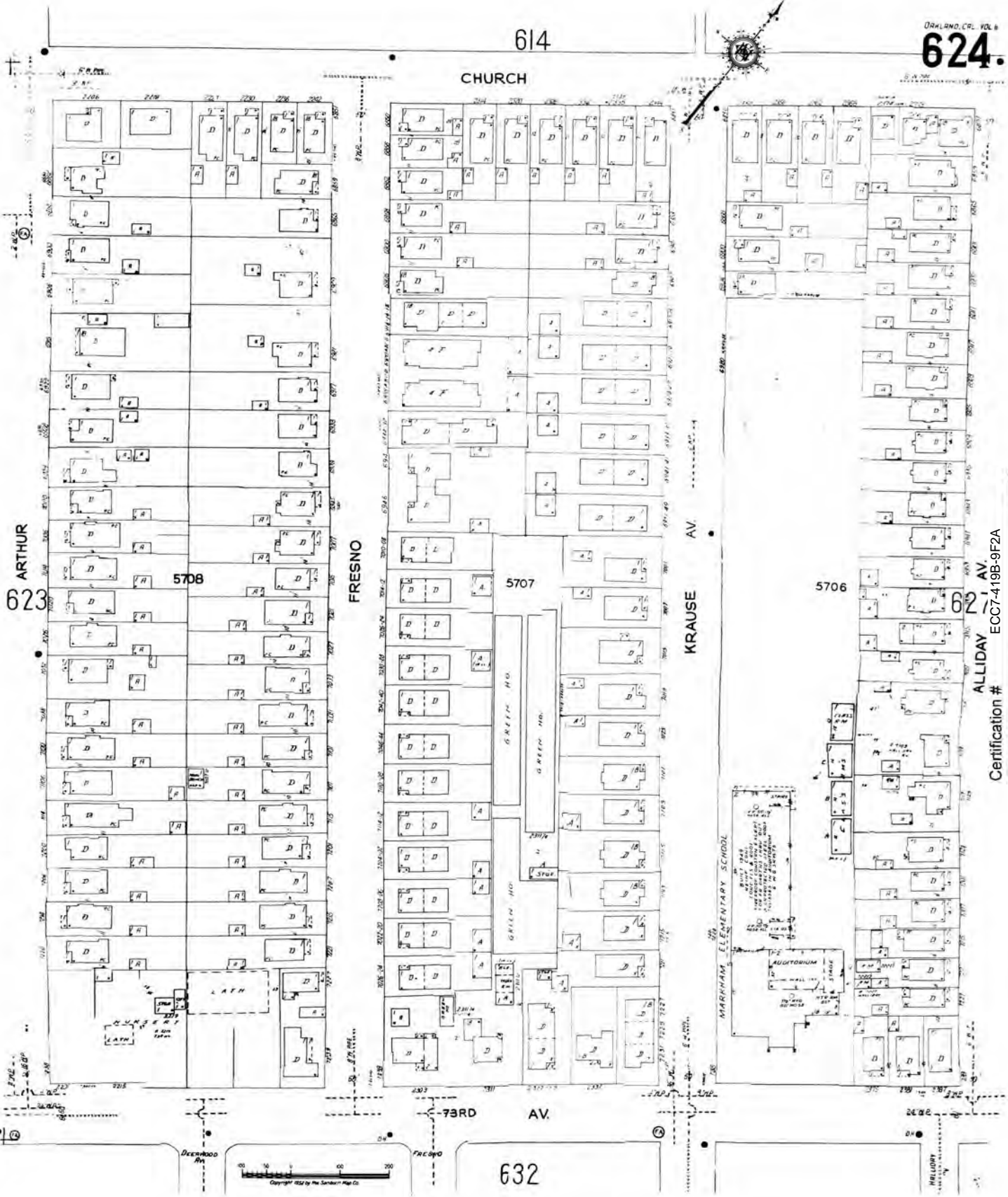
Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

OAKLAND, CAL. VOL. #
624.

614

CHURCH



Certification #

ECC7-419B-9F2A

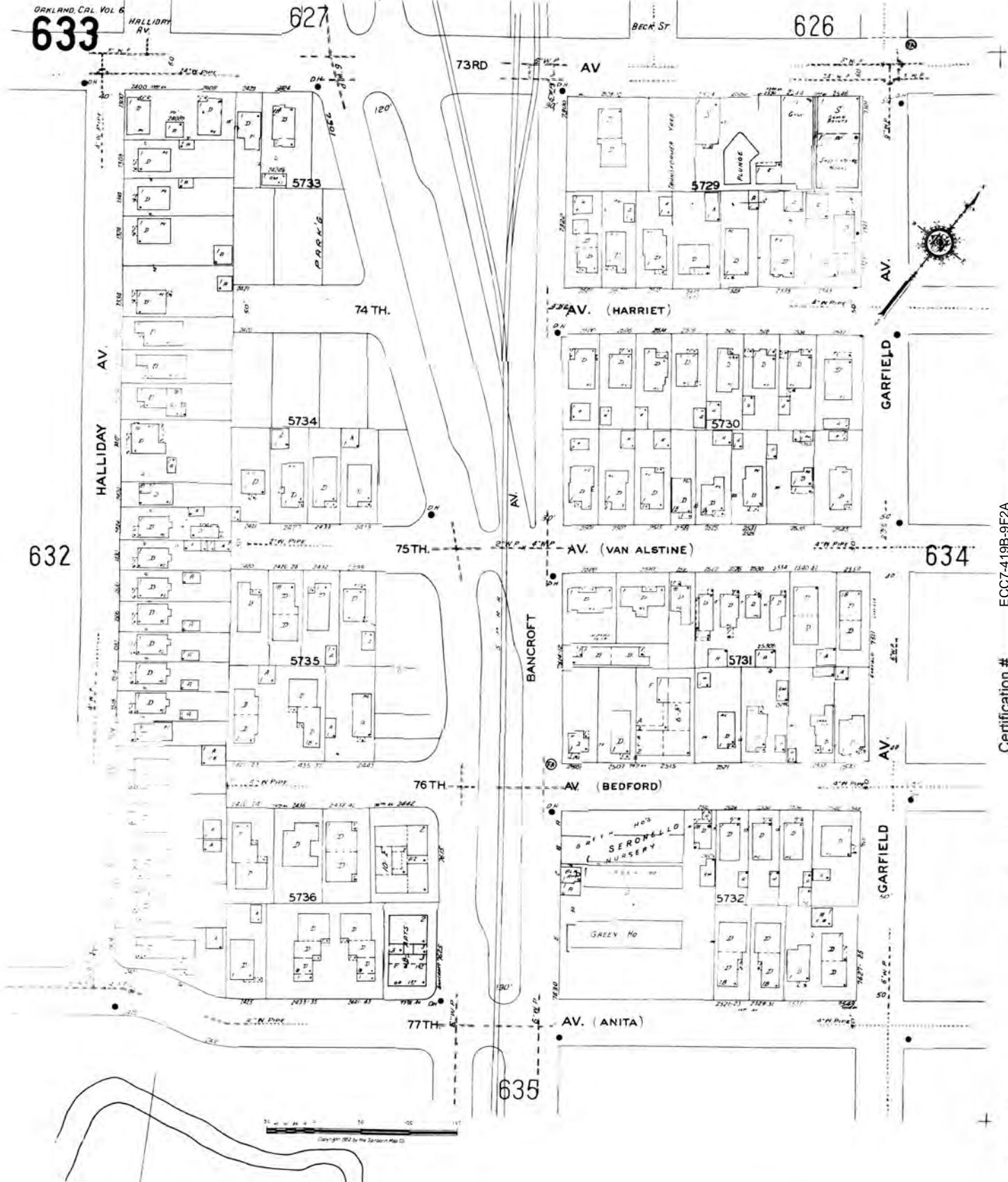
ALLIDAY AV

Certification #

ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification #: ECC7-419B-9F2A





Certification #

ECC7-419B-9F2A

ECC7-419B-9F2A

Certification #

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates

Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.

City, ST, ZIP: Oakland CA 94605
Certification #: ECC7-419B-9F2A

Research Associate: SPM Copyright: 1960



627

626

627

FOOTHILL BLVD

AV. (2340 FT.)

FL69

625

GARFIELD AV.

GENERAL MOTORS CORPN
CHEVROLET - OAKLAND DIVN.

1. 1969 & 1970...
2. 1971 & 1972...
3. 1973 & 1974...
4. 1975 & 1976...
5. 1977 & 1978...
6. 1979 & 1980...
7. 1981 & 1982...
8. 1983 & 1984...
9. 1985 & 1986...
10. 1987 & 1988...
11. 1989 & 1990...
12. 1991 & 1992...
13. 1993 & 1994...
14. 1995 & 1996...
15. 1997 & 1998...
16. 1999 & 2000...
17. 2001 & 2002...
18. 2003 & 2004...
19. 2005 & 2006...
20. 2007 & 2008...

RACE STAGE YARD

LOADING SHED

CONCRETE

ASPHALT

PAVING

GRAVEL

STEEL

WOOD

BRICK

STONE

GLASS

IRON

COPPER

ZINC

LEAD

ALUMINUM

SILVER

GOLD

PLATINUM

PALLADIUM

RHODIUM

PALADIUM

OSMIUM

IRIDIUM

SELENIUM

TUNGSTEN

GENERAL MOTORS CORPN
CHEVROLET - OAKLAND DIVN.

5702

CONDENSING SHED

TEST SHED

REPAIR SHED

WELDING SHED

PAINT SHED

WASH SHED

DRY SHED

STORAGE SHED

OFFICE

LABORATORY

WORKSHOP

TRAINING SHED

REST ROOM

TOILET

SHOWERS

LOCKER ROOM

CAFETERIA

RESTAURANT

BAR

DISCOTEQUE

THEATER

GYMNASIUM

POOL

CLUBHOUSE

BOAT HOUSE

STABLES

STALLS

WATER TOWER

GENERATOR

TRANSFORMER

ELECTRICAL CONTROL

PLUMBING

MECHANICAL

HEATING

Cooling

VENTILATION

EXHAUST

INTAKE

FILTER

WASHER

DRYER

IRONER

STEAMER

WASHER

DRYER

IRONER

STEAMER

WASHER

DRYER

IRONER

STEAMER

WASHER

DRYER

IRONER

5703

CHASSIS ASSEMBLING

RIM & SPRINGS

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

5704

627

634

73RD AV.

633

BANCROFT AV.

Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

ORLAND CAL VOL 6
627 614

612

BECK ST

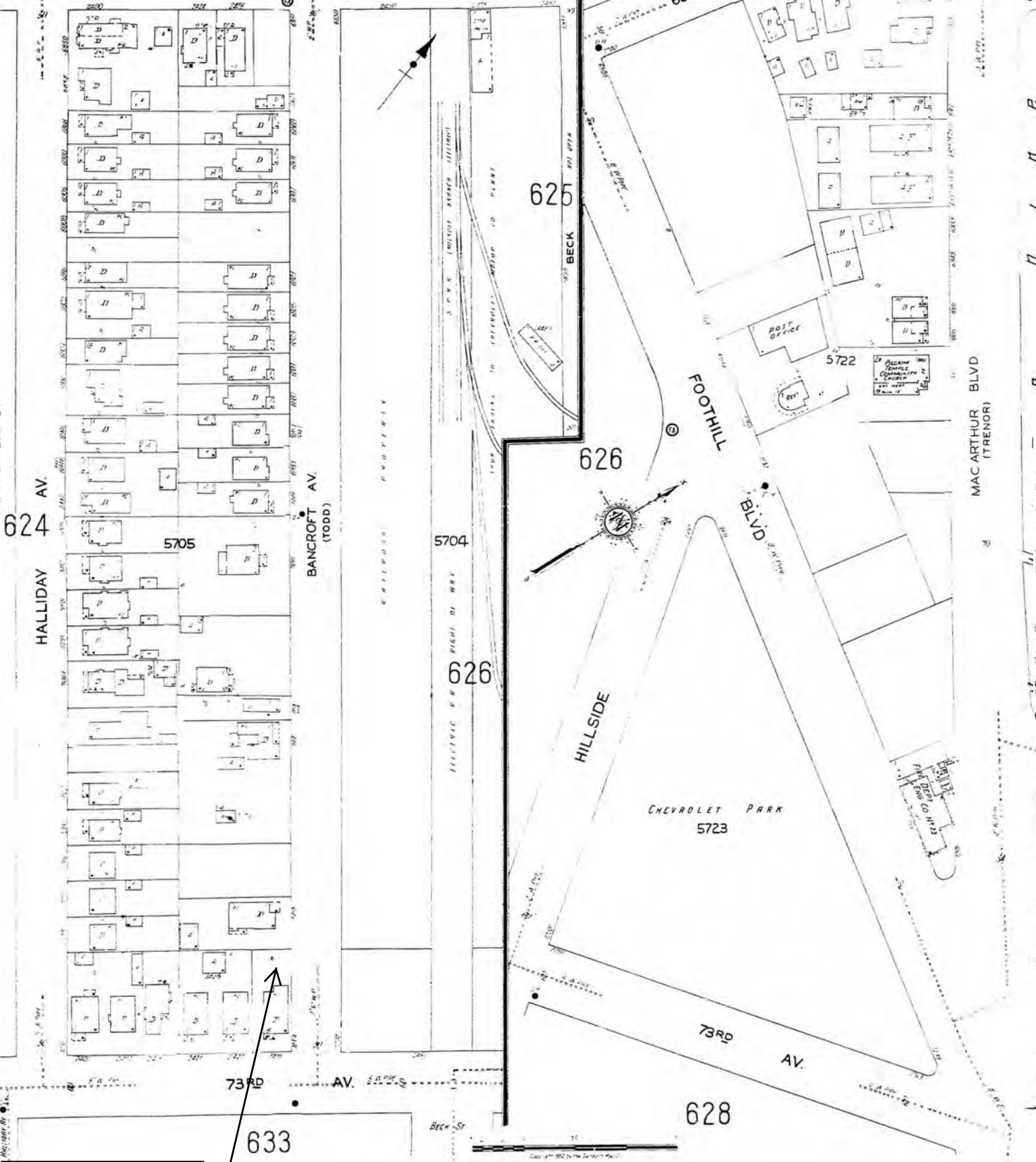
62

Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification # ECC7-419B-9F2A

Research Associate: SPM Copyright: 1952



CHURCH



Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A

The Site

CORA	TO
------	----

OAKLAND, CAL. VOL. 6
633

627

Todd St

Beck St

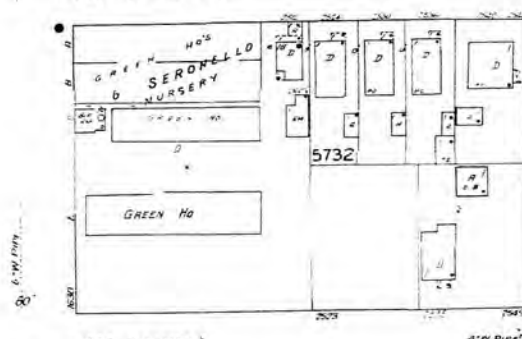
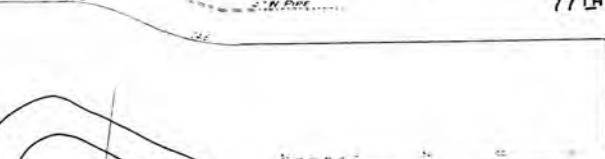
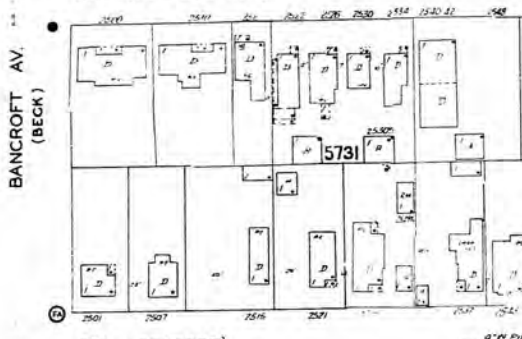
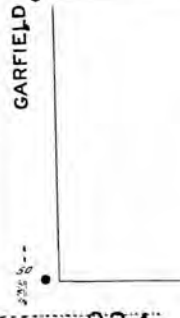
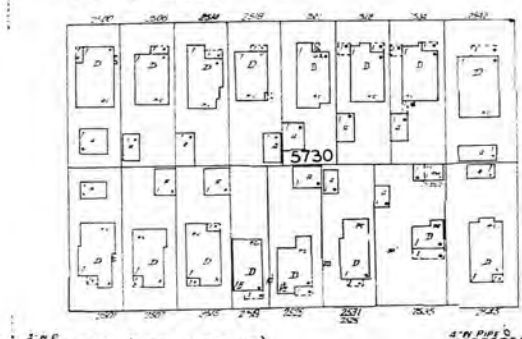
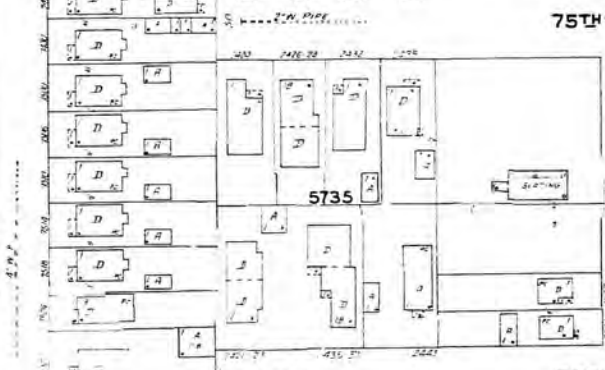
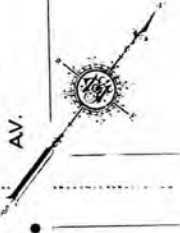
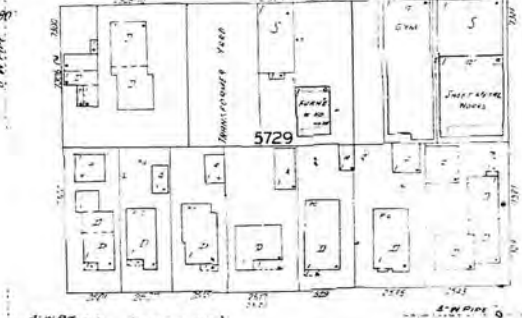
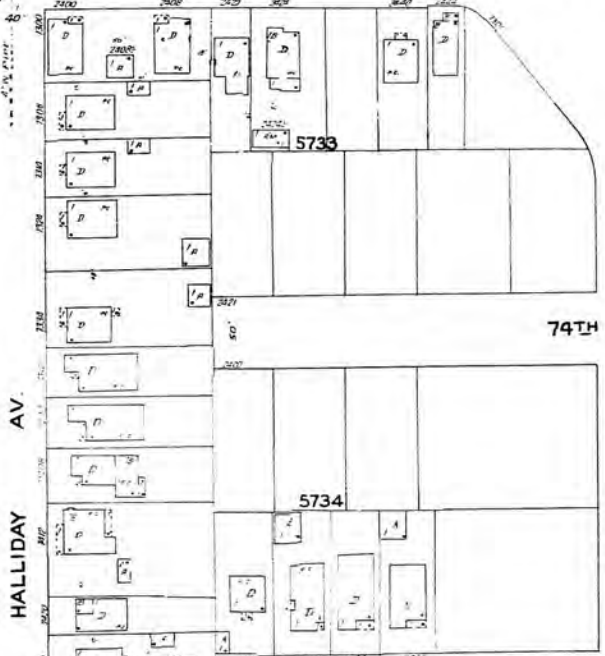
626

73RD

AV

6 N Pipe

6 N Pipe



635

Certification #
ECC7-419B-9F2A

632

Certification #
ECC7-419B-9F2A



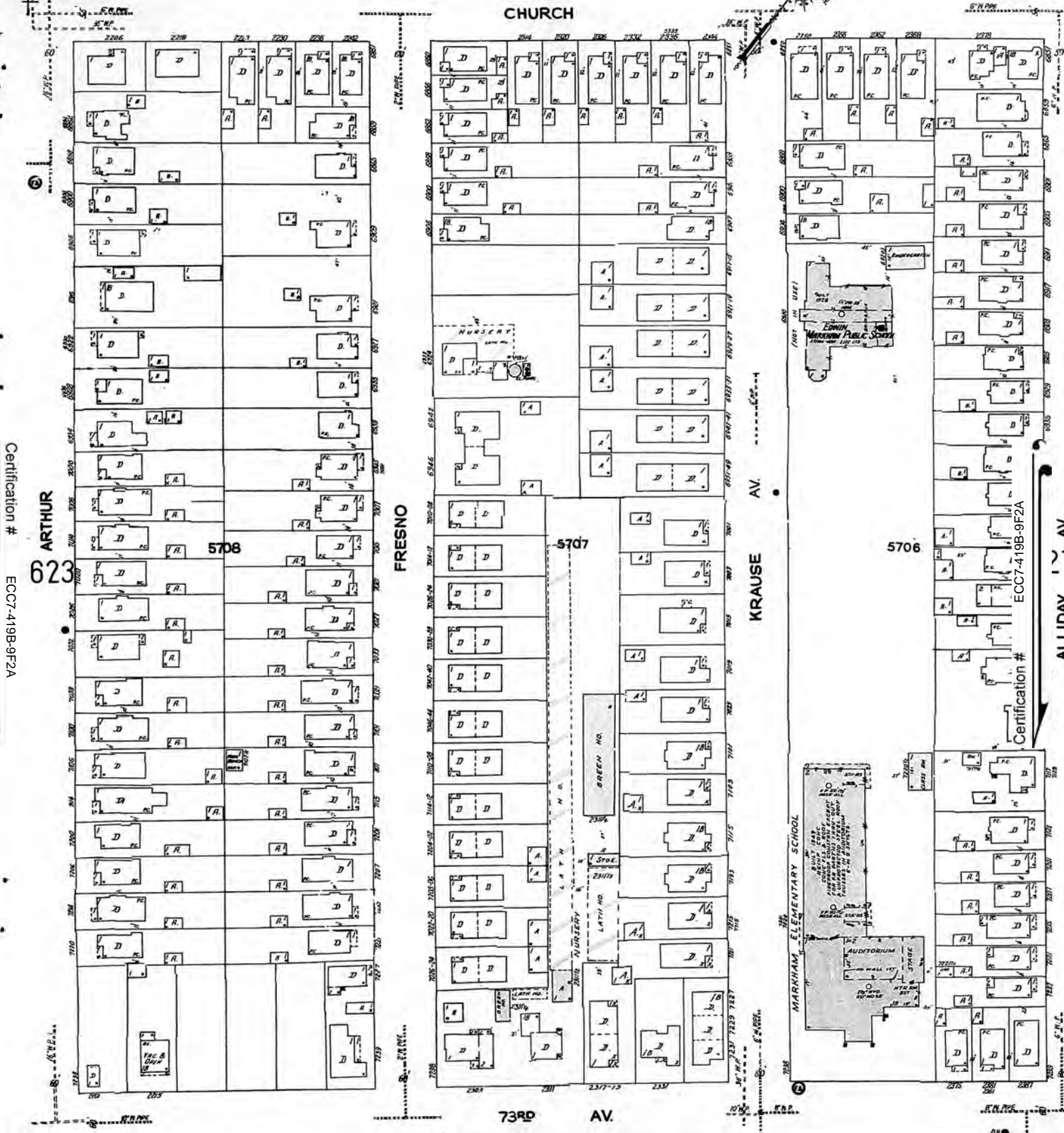
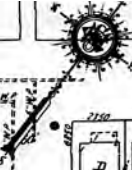
Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification #: ECC7-419B-9F2A

Research Associate: SPM Copyright: 1952

614

624

CHURCH



Certification # ECC7-419B-9F2A

ARTHUR

623

5708

FRESNO

5707

KRAUSE AV.

5706

ECC7-419B-9F2A

Certification #

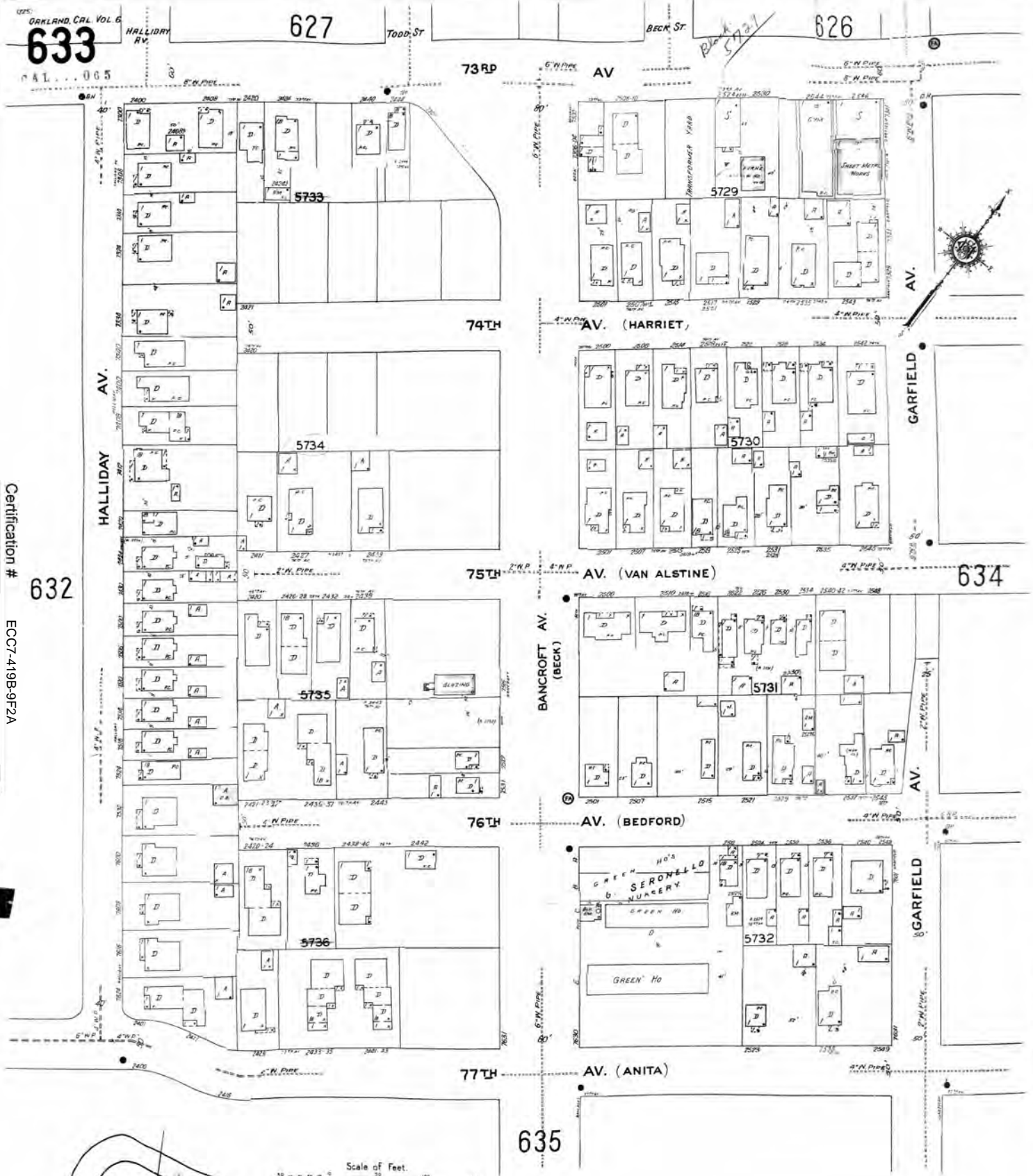
ALINDAY AV.

73RD AV.

632

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A





Certification #
ECC7-419B-9F2A

Certification #
ECC7-419B-9F2A

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



OAKLAND, CAL. VOL. 614

CAL. 000

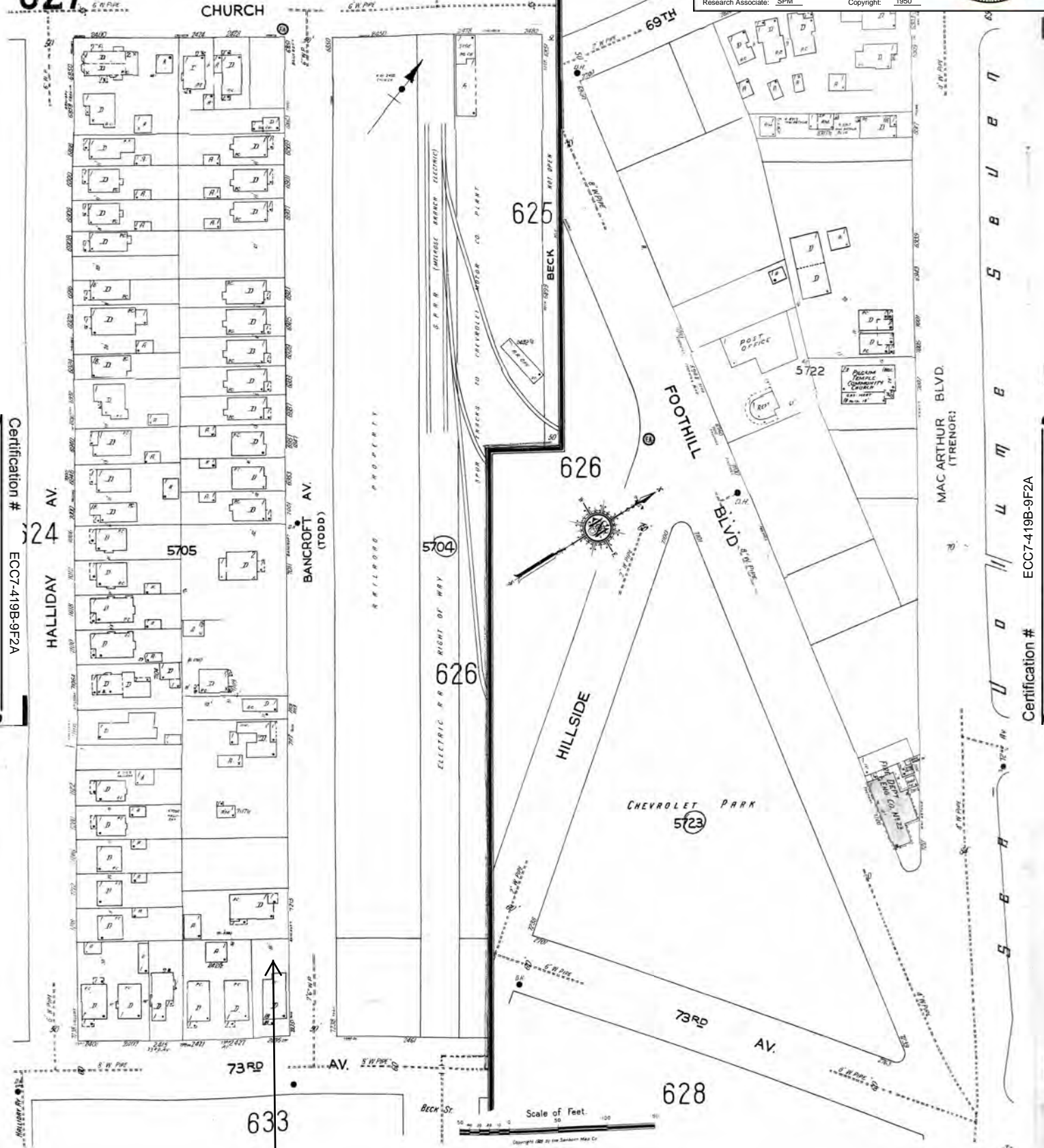
612

BECK ST

625

Date: 7/2/2007 4:46:20 PM
EDR Inquiry: 1969211.3S
Client: Conestoga-Rovers & Associates
Site Name: 311806 - Oakland CA
Address: 7225 Bancroft Ave.
City, ST, ZIP: Oakland CA 94605
Certification # ECC7-419B-9F2A

Research Associate: SPM Copyright: 1950



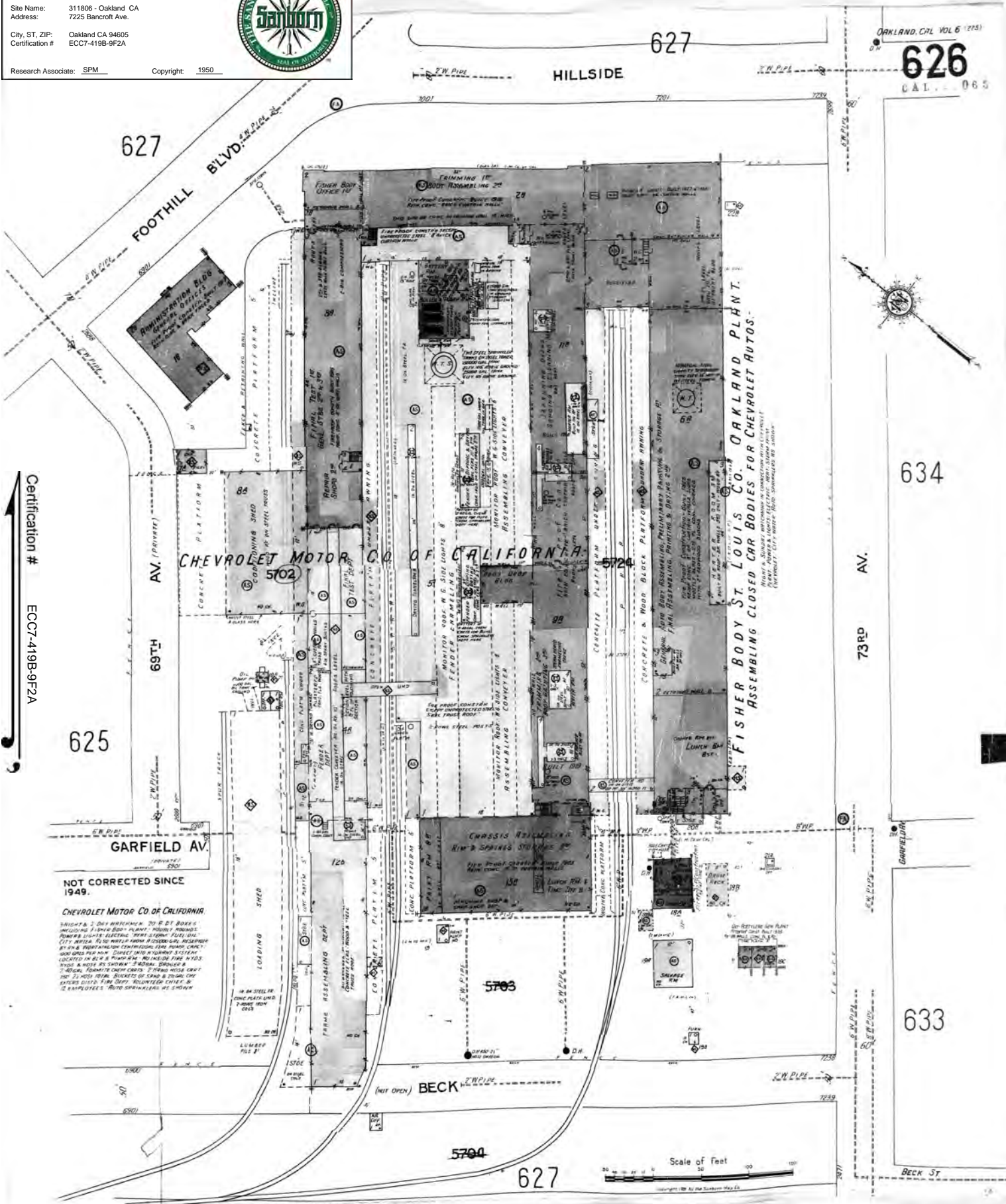
Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

The Site

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A

Research Associate: SPM Copyright: 1950



Certification #
 ECC7-419B-9F2A

Certification #
 ECC7-419B-9F2A



Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

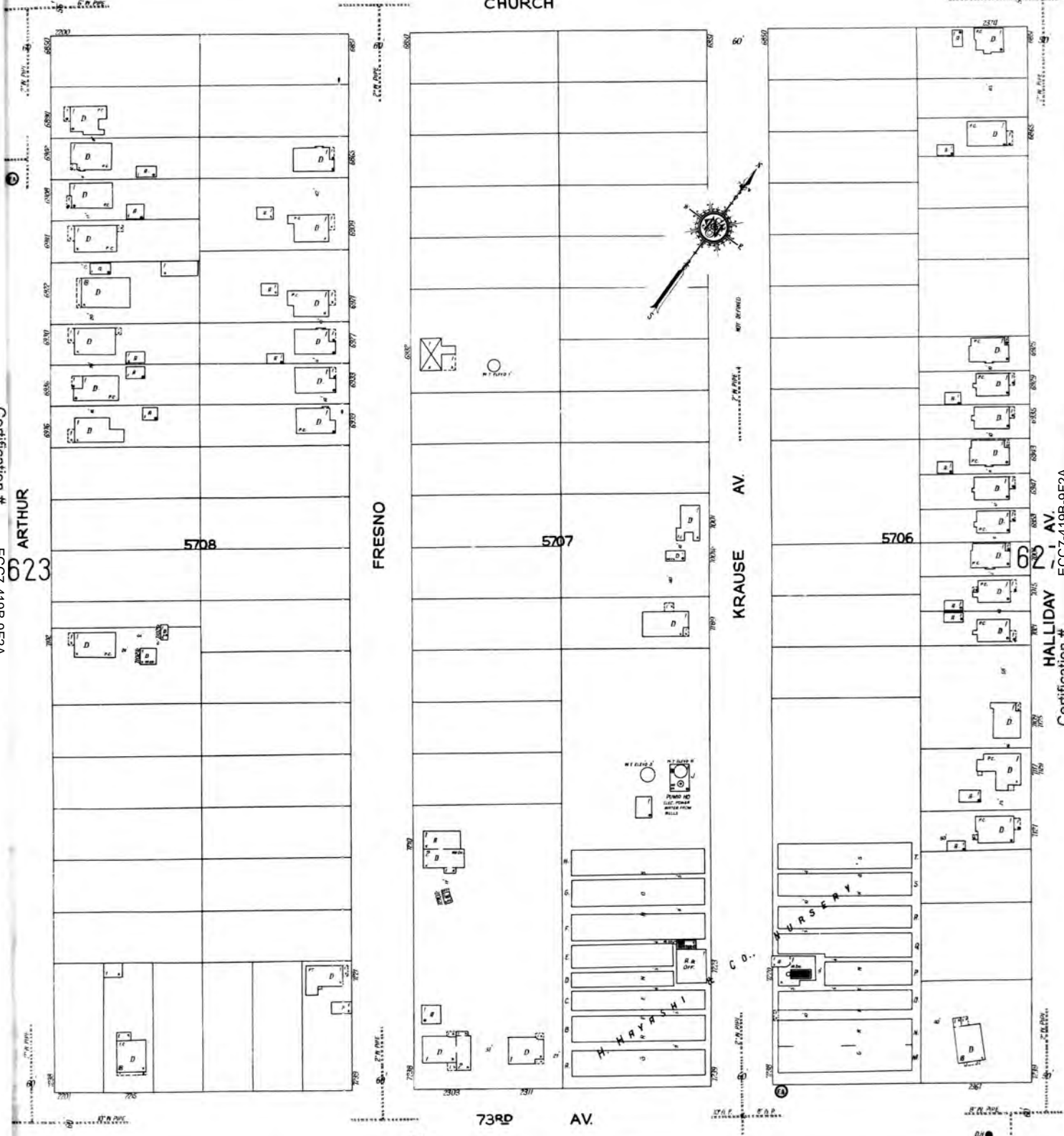
Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification # ECC7-419B-9F2A



ORLANDO, CAL. VOL. 6
624.

614

CHURCH



Certification #
ECC7-419B-9F2A

ARTHUR

623

5708

FRESNO

5707

KRAUSE AV.

5706

624

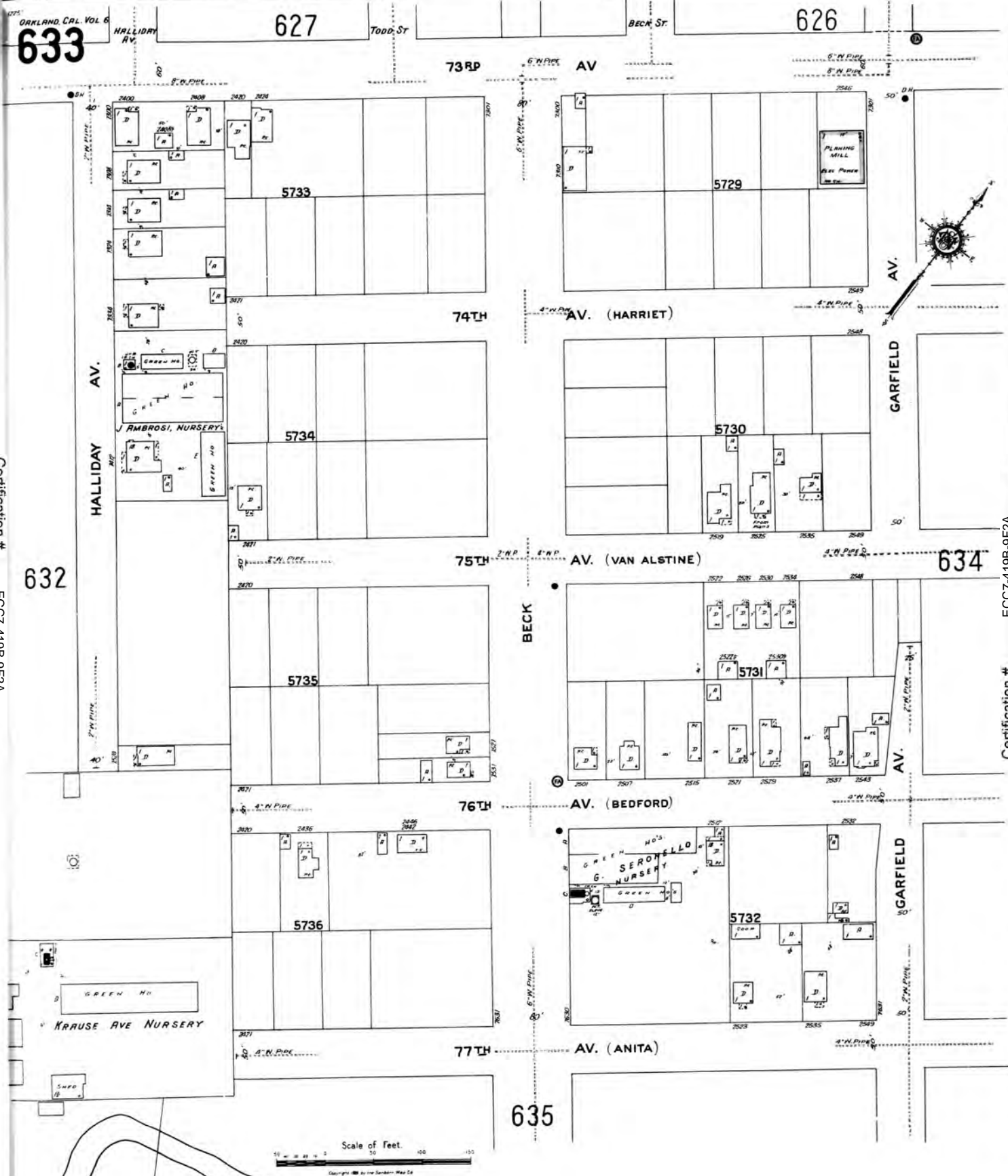
HALLIDAY AV.
 Certification #
ECC7-419B-9F2A

73RD AV.

632

Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A





Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

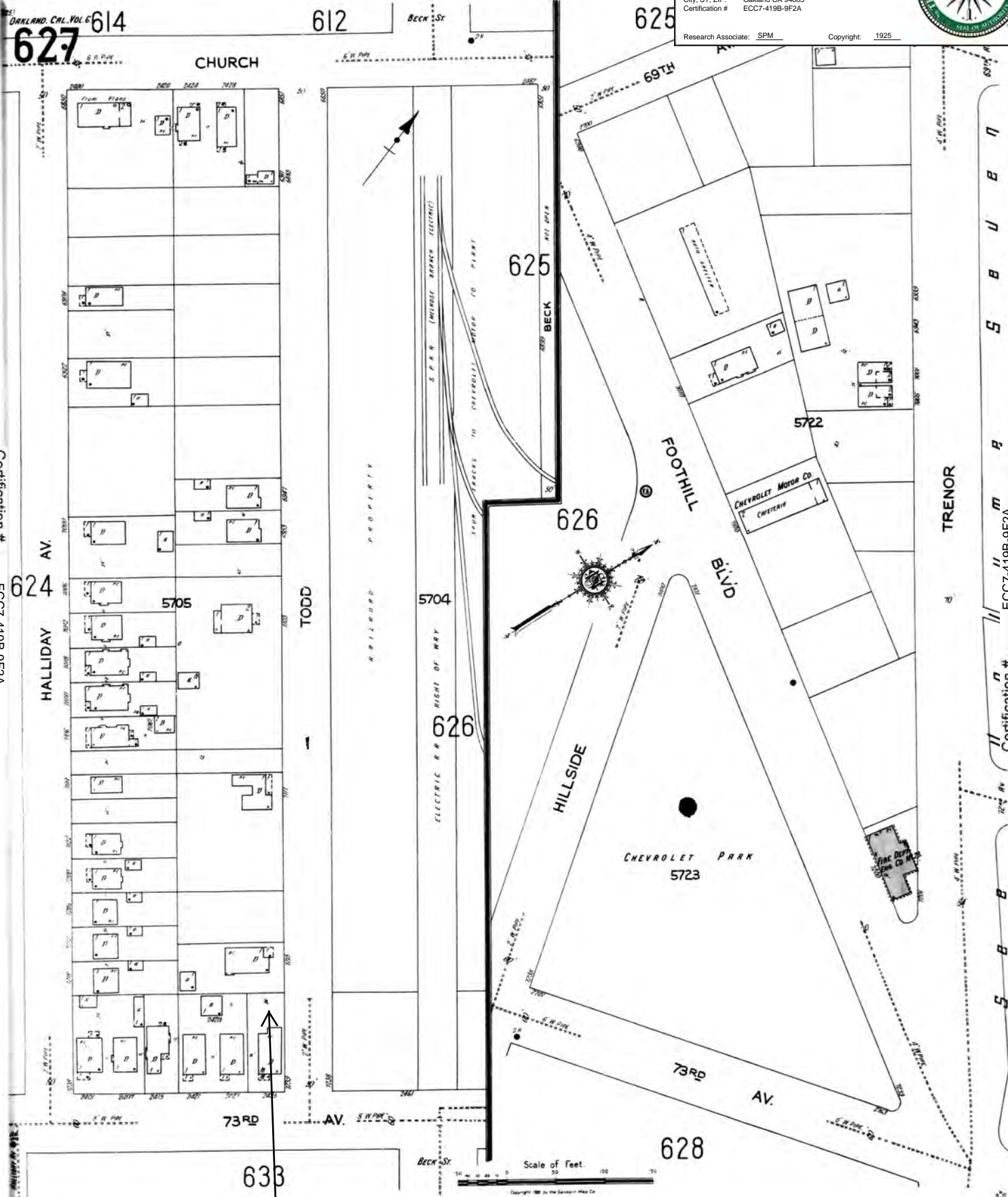
Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification #: ECC7-419B-9F2A



Date: 7/2/2007 4:46:20 PM
 EDR Inquiry: 1969211.3S
 Client: Conestoga-Rovers & Associates
 Site Name: 311806 - Oakland CA
 Address: 7225 Bancroft Ave.
 City, ST, ZIP: Oakland CA 94605
 Certification # ECC7-419B-9F2A



Research Associate: SPM Copyright: 1925



Certification # ECC7-419B-9F2A

Certification # ECC7-419B-9F2A

The Site

Appendix C

Previous Site Environmental Work and Adjacent Site Data

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

Former Chevron Service Station 93322

7225 Bancroft Avenue

Oakland, California

1981 UST Removal and Replacement

Chevron records indicate the current underground storage tanks (USTs) were installed in 1981. These tanks represent at least the second generation of USTs at the site. In 1981, no regulations requiring soil or groundwater sampling existed to document conditions associated with the fuel system. As a result, no records of 1981 soil or groundwater conditions are available.

August 1996 Product Line Removal and Replacement

In August 1996, Gettler-Ryan Inc. (G-R) of Dublin, California removed and replaced product piping at the site. Touchstone Developments (Touchstone) of Santa Rosa, California collected compliance soil samples between two and four feet below grade (fbg) beneath the product lines and dispenser islands. Records indicate that approximately 300 cubic yards of soil and pea gravel were excavated during product line removal activities. Additional information available in Touchstone's May 28, 1997 *Product Piping Removal Soil Sampling Report*.

January 1998 Well Installation

In January 1998, G-R observed Bay Area Exploration Services, Inc. (BAES) install 2-inch diameter monitoring wells MW-1 through MW-3. All three monitoring wells were installed surrounding the former and current dispenser islands. Additional information available in G-R's March 13, 1998 *Well Installation Report*.

July 1998 Well Survey

In July 1998, G-R conducted a search of California Department of Water Resources records to identify domestic and municipal supply wells within a 0.5-mile radius of the site. Seven wells were located within the search area, but none were identified as domestic or municipal wells. Additional information available in G-R's July 21, 1998 *Well Search*.

January 1999 Well Installation

In January 1999, G-R installed 2-inch diameter monitoring wells MW-4 through MW-6 to further define the extent of hydrocarbons in soil and groundwater beneath the site. Additional information available in G-R's April 9, 1999 *Monitoring Well Installation Report*.

July 2000 Baseline Investigation

In July 2000, Cambria Environmental Technology, Inc. (Cambria) observed Vironex Inc. of San Leandro, California advance soil borings B-1 and B-2 and install monitoring well MW-7. The purpose of the investigation was to provide information of environmental conditions beneath the site at the time of

property transfer. Additional information available in Cambria's August 31, 2000 *Subsurface Investigation Report*.

September 2000 Additional Baseline Investigation

In September 2000, Cambria observed V&W Drilling of Rio Vista, California advance borings SB-4 through SB-6. The purpose of this investigation was to provide additional environmental data to satisfy real estate and lending requirements of the station operator for purchase of site facilities. Additional information available in Cambria's November 22, 2000 *Additional Baseline Investigation Report*.

March 2002 Well Installation

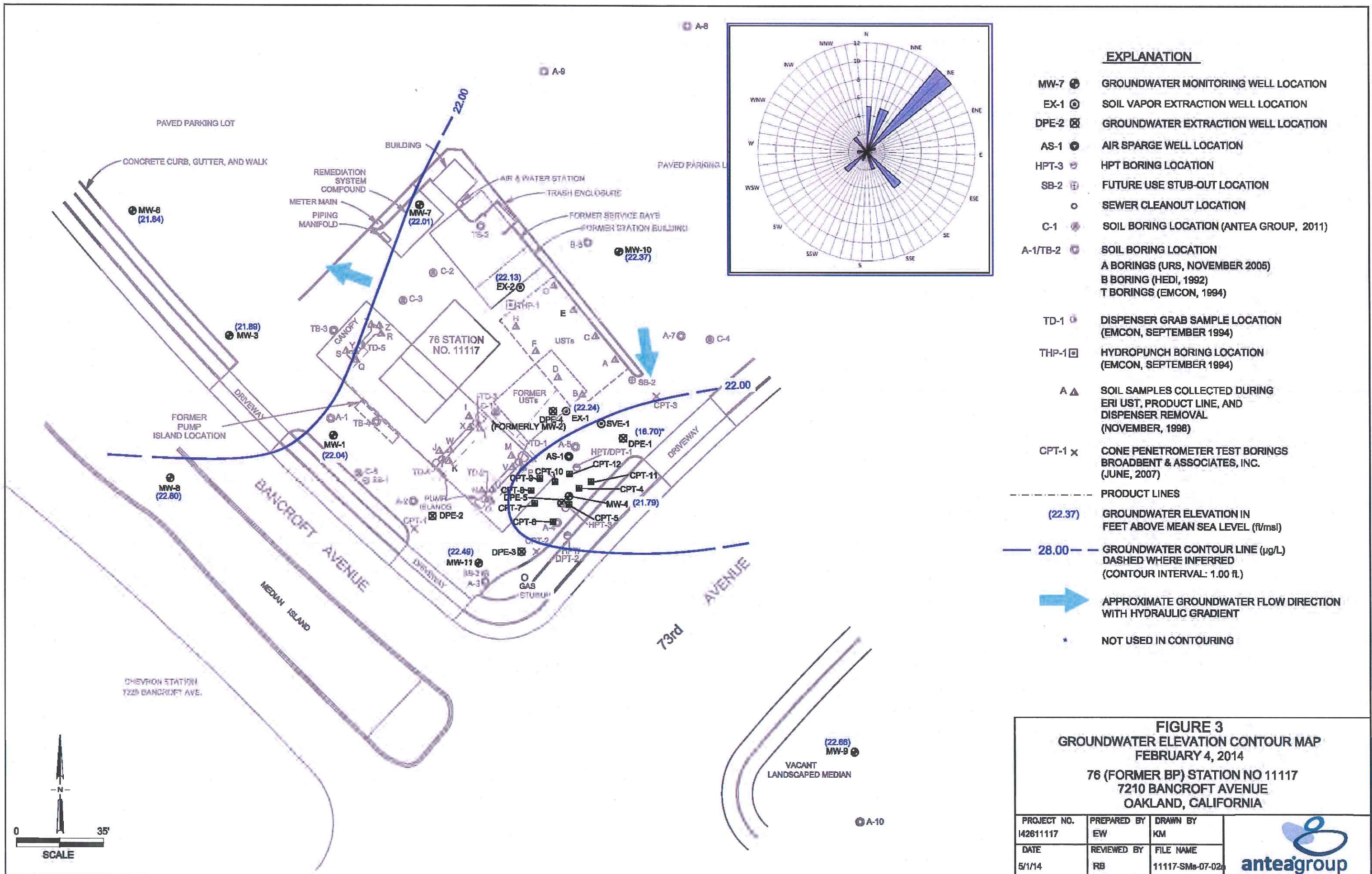
G-R installed monitoring wells MW-8, MW-9 and MW-10 to delineate light non-aqueous phase liquids (LNAPL) in the vicinity of well MW-1 and further evaluate the dissolved-phase hydrocarbon plume. G-R concluded that the dissolved-hydrocarbon plume is defined downgradient and additional assessment of soil conditions in the vicinity of the newly installed wells was not warranted. Additional information available in G-R's June 26, 2002 *Monitoring Well Installation Report*.

March 2005 Vapor Probe installation

Cambria installed four vapor probes VP-1 through VP-4 to construct a horizontal and vertical profile of vapor concentrations along the downgradient boundary and in the area of recurring LNAPL. Vapor probes were sampled a total of five times between April 2005 and May 2008. More information available in Cambria's July 11, 2005 *Vapor Probe Installation Report*.

September 2007 Surfactant Application

On September 25 2007, a surfactant enhanced LNAPL extraction event was conducted to remove LNAPL from well MW-1. A total of 346 gallons of a 5 percent surfactant solution was gravity-fed into MW-1. Surfactant solution was also added to well MW-7 but was not successful due to the small ¾-inch casing diameter. A total of approximately 7 gallons (1 casing volume) of the surfactant solution was gravity-fed into well MW-7. Following application, the surfactant solution was allowed to envelop and emulsify any residual LNAPL in the application area smear zone for approximately 24 hours. Afterward, approximately 1,200 gallons of groundwater, surfactant, and LNAPL were extracted. More information is available in Conestoga-Rovers & Associates (CRA)'s January 30, 2009 Site Conceptual Model.

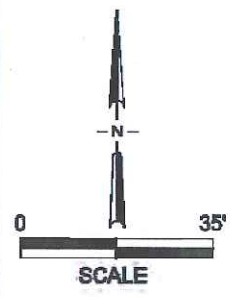


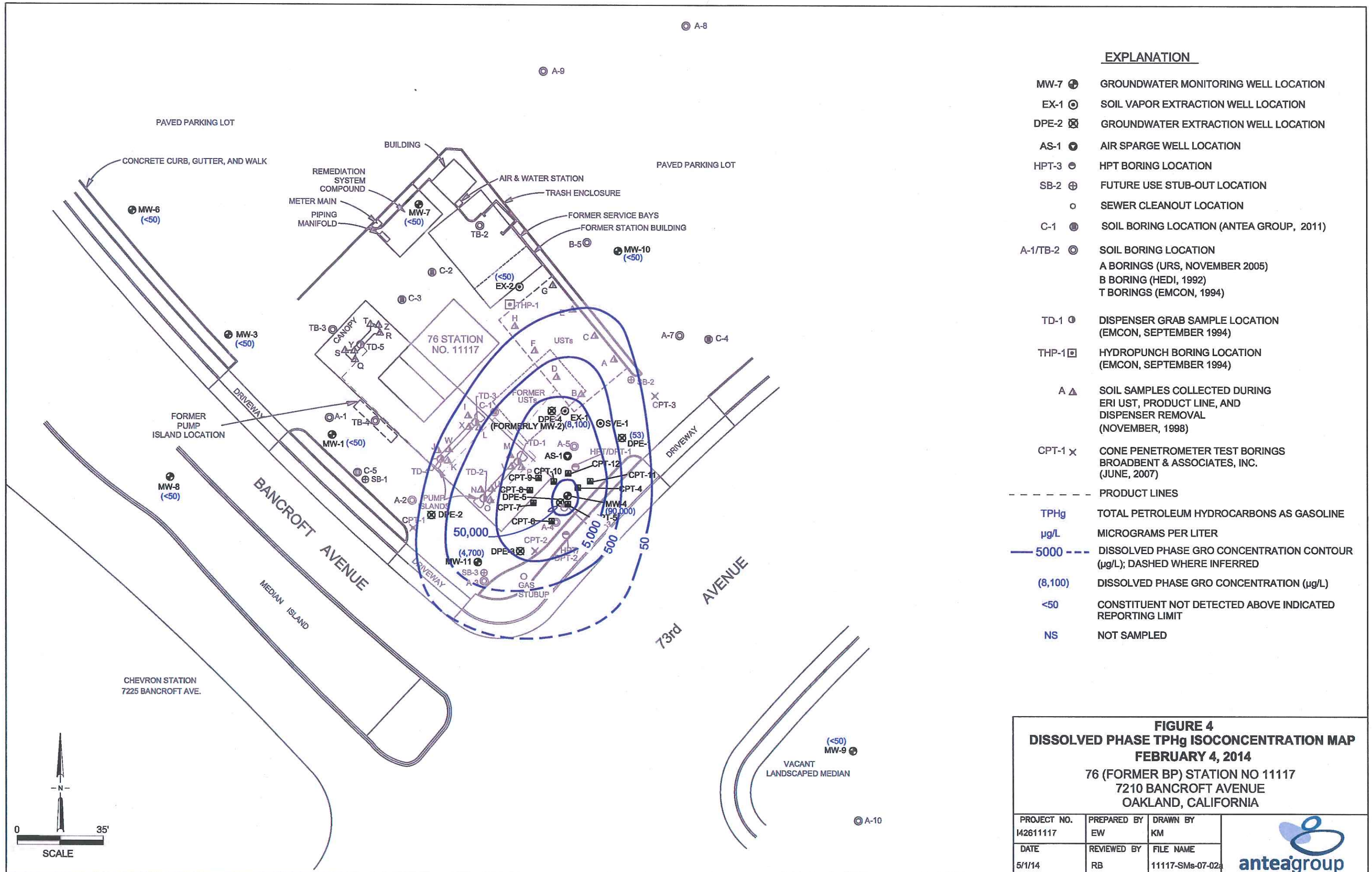
EXPLANATION

- MW-7 ● GROUNDWATER MONITORING WELL LOCATION
- EX-1 ⊙ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊠ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ⊙ AIR SPARGE WELL LOCATION
- HPT-3 ⊙ HPT BORING LOCATION
- SB-2 ⊠ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ⊙ SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ⊙ SOIL BORING LOCATION
- A BORINGS (URS, NOVEMBER 2005)
- B BORING (HEDI, 1992)
- T BORINGS (EMCON, 1994)
- TD-1 ⊙ DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 ⊠ HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A Δ SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 x CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- (22.37) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- 28.00 — GROUNDWATER CONTOUR LINE (μg/L) DASHED WHERE INFERRED (CONTOUR INTERVAL: 1.00 ft.)
- ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION WITH HYDRAULIC GRADIENT
- * NOT USED IN CONTOURING

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 FEBRUARY 4, 2014
 76 (FORMER BP) STATION NO 11117
 7210 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY EW	DRAWN BY KM
DATE 5/1/14	REVIEWED BY RB	FILE NAME 11117-SMs-07-02a






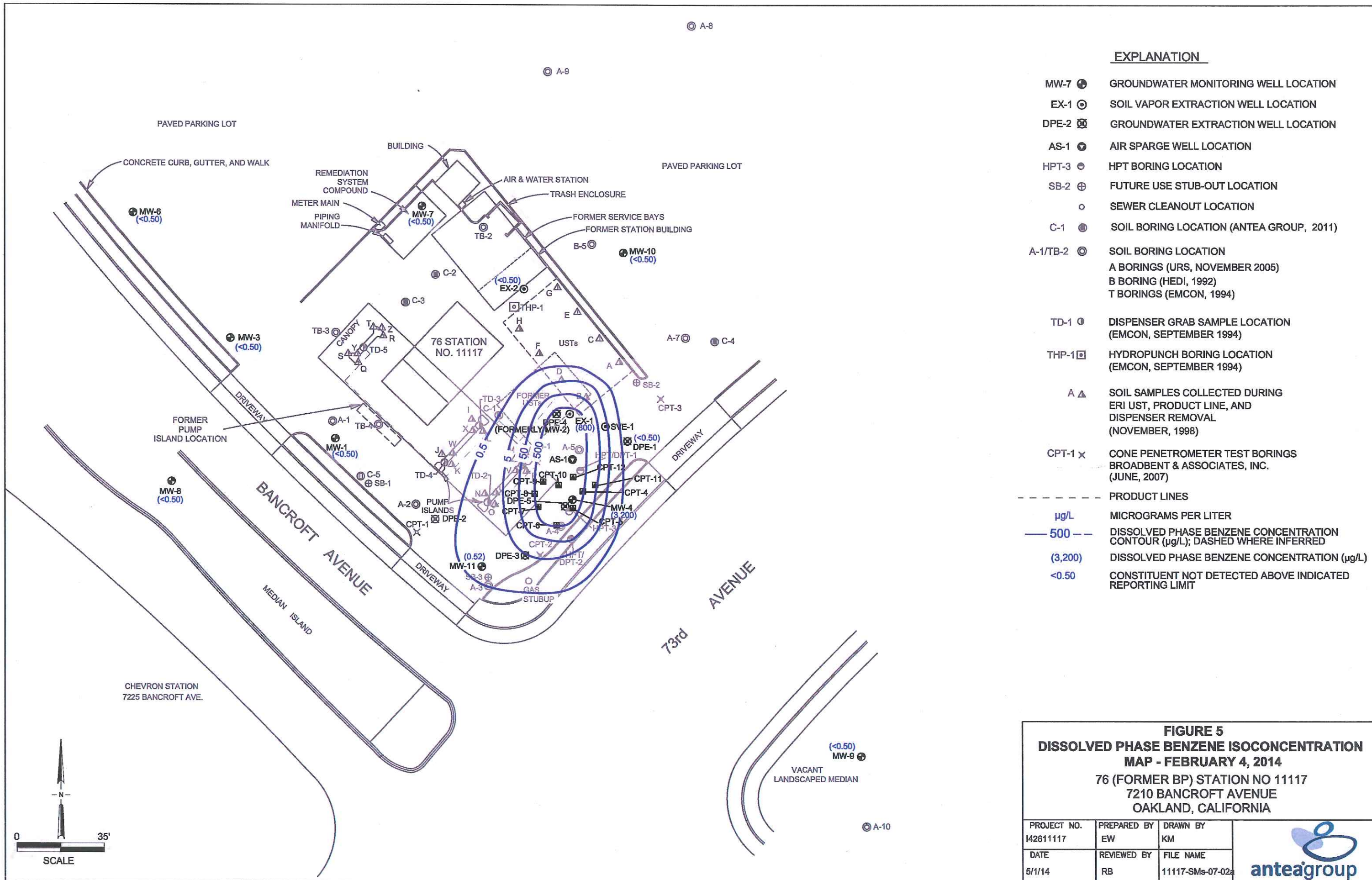
EXPLANATION

- MW-7 ⊕ GROUNDWATER MONITORING WELL LOCATION
- EX-1 ⊙ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊗ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ⊖ AIR SPARGE WELL LOCATION
- HPT-3 ⊙ HPT BORING LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ⊙ SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ⊙ SOIL BORING LOCATION
- A BORINGS (URS, NOVEMBER 2005)
- B BORING (HEDI, 1992)
- T BORINGS (EMCON, 1994)
- TD-1 ⊙ DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 ⊠ HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A ⊠ SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 × CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- TPHg TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- µg/L MICROGRAMS PER LITER
- 5000 --- DISSOLVED PHASE GRO CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (8,100) DISSOLVED PHASE GRO CONCENTRATION (µg/L)
- <50 CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT
- NS NOT SAMPLED

FIGURE 4
DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
FEBRUARY 4, 2014
 76 (FORMER BP) STATION NO 11117
 7210 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY EW	DRAWN BY KM
DATE 5/1/14	REVIEWED BY RB	FILE NAME 11117-SMs-07-02a





EXPLANATION

- MW-7 ⊕ GROUNDWATER MONITORING WELL LOCATION
- EX-1 ⊙ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊗ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ⊖ AIR SPARGE WELL LOCATION
- HPT-3 ⊙ HPT BORING LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ⊙ SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ⊙ SOIL BORING LOCATION
- A BORINGS (URS, NOVEMBER 2005)
- B BORING (HEDI, 1992)
- T BORINGS (EMCON, 1994)

- TD-1 ⊙ DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 ⊠ HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)

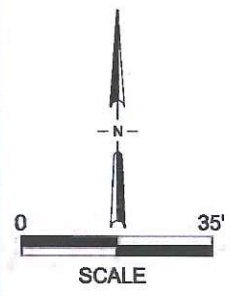
- A ⊠ SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)

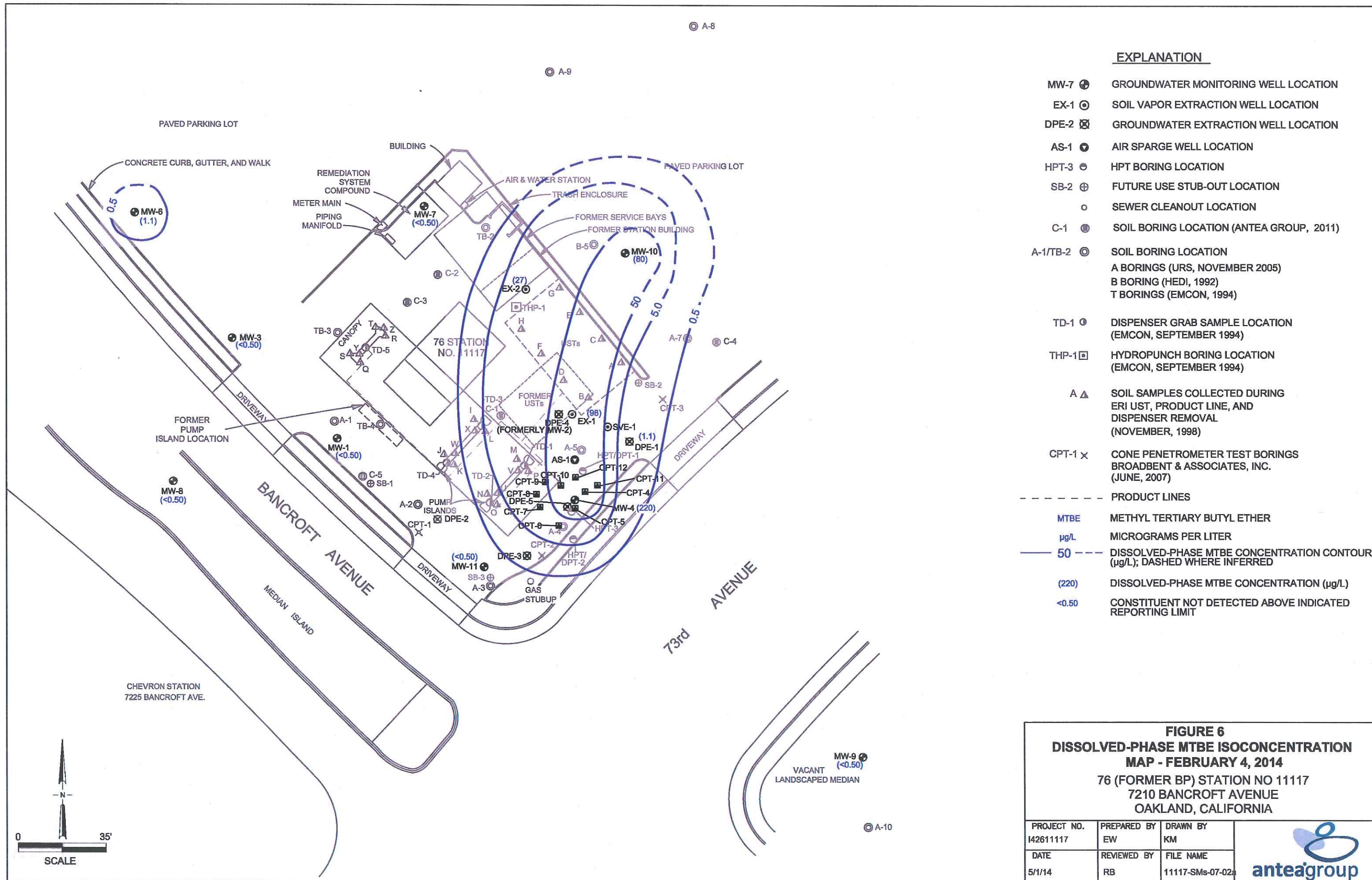
- CPT-1 × CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)

- PRODUCT LINES
- µg/L MICROGRAMS PER LITER
- 500 — DISSOLVED PHASE BENZENE CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (3,200) DISSOLVED PHASE BENZENE CONCENTRATION (µg/L)
- <0.50 CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 5
DISSOLVED PHASE BENZENE ISOCONCENTRATION
MAP - FEBRUARY 4, 2014
 76 (FORMER BP) STATION NO 11117
 7210 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY EW	DRAWN BY KM	 anteagroup
DATE 5/1/14	REVIEWED BY RB	FILE NAME 11117-SMs-07-02a	





EXPLANATION

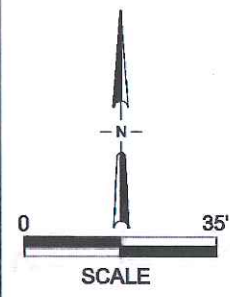
- MW-7 ⊕ GROUNDWATER MONITORING WELL LOCATION
- EX-1 ⊙ SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 ⊠ GROUNDWATER EXTRACTION WELL LOCATION
- AS-1 ⊕ AIR SPARGE WELL LOCATION
- HPT-3 ⊙ HPT BORING LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- SEWER CLEANOUT LOCATION
- C-1 ⊕ SOIL BORING LOCATION (ANTEA GROUP, 2011)
- A-1/TB-2 ⊙ SOIL BORING LOCATION
- A BORINGS (URS, NOVEMBER 2005)
- B BORING (HEDI, 1992)
- T BORINGS (EMCON, 1994)

- TD-1 ⊙ DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 ⊠ HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A ⊠ SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 × CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)

- - - - - PRODUCT LINES
- MTBE METHYL TERTIARY BUTYL ETHER
- μg/L MICROGRAMS PER LITER
- 50 --- DISSOLVED-PHASE MTBE CONCENTRATION CONTOUR (μg/L); DASHED WHERE INFERRED
- (220) DISSOLVED-PHASE MTBE CONCENTRATION (μg/L)
- <0.50 CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 6
DISSOLVED-PHASE MTBE ISOCONCENTRATION
MAP - FEBRUARY 4, 2014
 76 (FORMER BP) STATION NO 11117
 7210 BANCROFT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY EW	DRAWN BY KM
DATE 5/1/14	REVIEWED BY RB	FILE NAME 11117-SMs-07-02a



Appendix D

Boring Logs

Gettler-Ryan, Inc.

Log of Boring MW-1

PROJECT: Chevron Service Station #9-3322

LOCATION: 7225 Bancroft Avenue, Oakland, CA

G-R PROJECT NO.: 6433.01

SURFACE ELEVATION: 40.41 feet MSL

DATE STARTED: 01/22/98

WL (ft. bgs): 25.5 DATE: 01/22/98 TIME: 10:40

DATE FINISHED: 01/22/98

WL (ft. bgs): 16.3 DATE: 01/22/98 TIME: 15:45

DRILLING METHOD: 8 in. Hollow Stem Auger

TOTAL DEPTH: 36.5 Feet

DRILLING COMPANY: Bay Area Exploration, Inc.

GEOLOGIST: Barbara Sieminski

DEPTH feet	PTD (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
						CL	PAVEMENT - asphalt.	<p>2" blank PVC Sch. 40</p> <p>2" machine slotted pvc (0.02 mch)</p> <p>cap</p> <p>neat cement</p> <p>bentonite</p> <p>#3 sand</p> <p>bentonite</p>
5	0	10	MWI-6			CL	CLAY (CL) - dark gray (10YR 4/1), moist, stiff, medium plasticity; 95% clay, 5% fine sand.	
10	18	19	MWI-11			CL	SANDY CLAY (CL) - brown (10YR 5/3), damp, stiff, low plasticity; 70% clay, 30% fine sand.	
15	168	36	MWI-15			GC	CLAYEY GRAVEL WITH SAND (GC) - light olive brown (2.5Y 5/4) mottled greenish gray (5GY 4/1), moist, dense; 45% subangular to subrounded fine gravel, 35% fine to coarse sand, 20% clay.	
20	68	36	MWI-21			GC	Color changes to yellowish brown (10YR 5/4), up to 40% fine to coarse sand, trace subrounded fine gravel at 10 feet.	
25	56	17	MWI-26			GW-GC	CLAYEY GRAVEL WITH SAND (GC) - light olive brown (2.5Y 5/4) mottled greenish gray (5GY 4/1), moist, dense; 45% subangular to subrounded fine gravel, 35% fine to coarse sand, 20% clay.	
30	7.7	22	MWI-31			GW-GC	Color changes to yellowish brown (10YR 5/6) at 20 feet. No water in the hole after waiting 10 minutes.	
35	142	27	MWI-36			CL	GRAVEL WITH SAND AND CLAY (GW-GC) - olive (5Y 5/3), saturated, medium dense; 50% subrounded to well rounded fine gravel, 30-35% fine to coarse sand, 10-15% clay.	
40						CL	SANDY CLAY (CL) - yellowish brown (10YR 5/6), moist, very stiff, low plasticity; 70% clay, 30% fine to medium sand.	

(* = converted to equivalent standard penetration blows/ft.)

Gettler-Ryan, Inc.

Log of Boring MW-2

PROJECT: Chevron Service Station #9-3322

LOCATION: 7225 Bancroft Avenue, Oakland, CA

G-R PROJECT NO.: 6433.01

SURFACE ELEVATION: 38.73 feet MSL

DATE STARTED: 01/22/98

WL (ft. bgs): 18.5 DATE: 01/22/98 TIME: 14:55

DATE FINISHED: 01/22/98

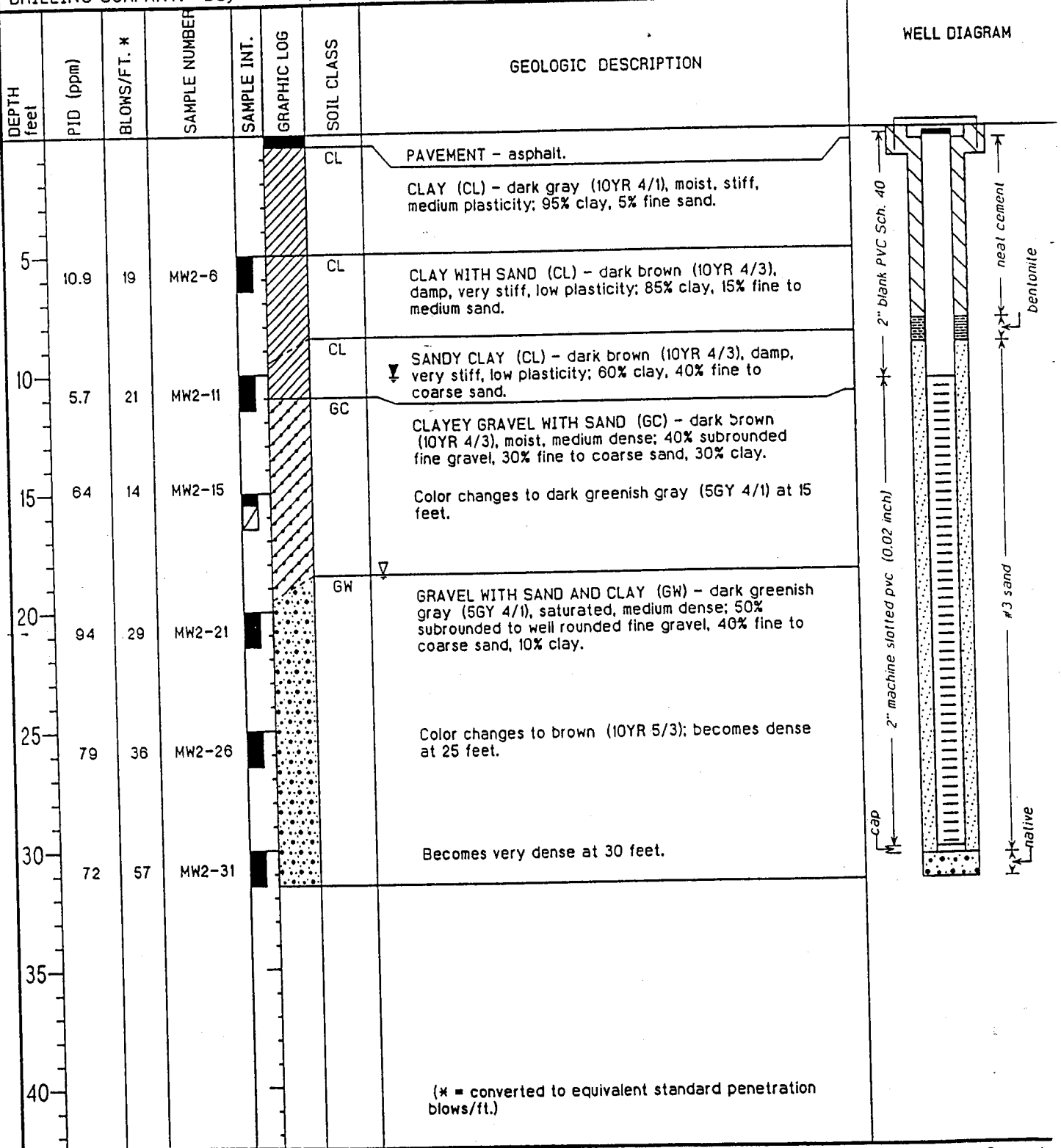
WL (ft. bgs): 10.2 DATE: 01/22/98 TIME: 16:00

DRILLING METHOD: 8 in. Hollow Stem Auger

TOTAL DEPTH: 31.5 Feet

DRILLING COMPANY: Bay Area Exploration, Inc.

GEOLOGIST: Barbara Sieminski



(* = converted to equivalent standard penetration blows/ft.)

Gettler-Ryan, Inc.

Log of Boring MW-3

PROJECT: <i>Chevron Service Station #9-3322</i>	LOCATION: <i>7225 Bancroft Avenue, Oakland, CA</i>
G-R PROJECT NO.: <i>6433.01</i>	SURFACE ELEVATION: <i>39.51 feet MSL</i>
DATE STARTED: <i>01/22/98</i>	WL (ft. bgs): <i>23.6</i> DATE: <i>01/22/98</i> TIME: <i>13:05</i>
DATE FINISHED: <i>01/22/98</i>	WL (ft. bgs): <i>17.0</i> DATE: <i>01/22/98</i> TIME: <i>15:45</i>
DRILLING METHOD: <i>8 in. Hollow Stem Auger</i>	TOTAL DEPTH: <i>34.5 Feet</i>
DRILLING COMPANY: <i>Bay Area Exploration, Inc.</i>	GEOLOGIST: <i>Barbara Sieminski</i>

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							PAVEMENT - asphalt.	
5	0	14	MW3-6			CL	CLAY (CL) - dark gray (10YR 4/1), moist, stiff, medium plasticity; 95% clay, 5% fine sand.	<p>2" blank PVC Sch. 40</p> <p>neat cement</p> <p>bentonite</p> <p>#3 sand</p> <p>bentonite</p> <p>cap</p> <p>2" machine slotted pvc (0.02 inch)</p>
10	0	16	MW3-11			CL	SANDY CLAY (CL) - dark brown (10YR 3/3), damp, stiff, low plasticity; 70% clay, 30% fine to coarse sand, trace subrounded fine gravel. Color changes to dark yellowish brown (10YR 4/6); sand decreasing to 10% at 10 feet.	
15	0	20	MW3-16			GC/SC	CLAYEY GRAVEL WITH SAND (GC) - light olive brown (2.5Y 5/4), moist, medium dense; 35% subrounded fine gravel, 35% fine to coarse sand, 30% clay.	
20	0	15	MW3-20			ML	SILT (ML) - olive (5Y 5/4), moist, low plasticity, stiff; 100% silt.	
25	0	11	MW3-25			ML	SANDY SILT (ML) - light olive brown (2.5Y 5/6), saturated, low plasticity, stiff; 70% silt, 30% fine sand.	
25	0	19	MW3-26			GC	Color changes to greenish gray (5GY 5/1) at 25.5 feet.	
30	54	14	MW3-31			GW	CLAYEY GRAVEL WITH SAND (GC) - greenish gray (5GY 5/1), saturated, medium dense; 40% subrounded fine to coarse gravel, 35% fine to coarse sand, 25% clay.	
35	40	27	MW3-34			GW	GRAVEL WITH SAND (GW) - dark greenish gray (5GY 4/1), saturated, medium dense; 60% subrounded to well rounded fine to coarse gravel, 40% fine to coarse sand.	
35						CL	SANDY CLAY (CL) - yellowish brown (10YR 5/6), moist, very stiff, low plasticity; 70% clay, 30% fine to coarse sand.	
40								

(* = converted to equivalent standard penetration blows/ft.)

Gettler-Ryan, Inc.

Log of Boring MW-4

PROJECT: <i>Chevron SS 9-3322</i>	LOCATION: <i>7225 Bancroft Ave, Oakland, CA.</i>
GSI PROJECT NO.: <i>346433.02</i>	SURFACE ELEVATION: <i>40.24 ft. MSL</i>
DATE STARTED: <i>01/22/99</i>	WL (ft. bgs): <i>24.0</i> DATE: <i>01/22/99</i> TIME: <i>11:35</i>
DATE FINISHED: <i>01/22/99</i>	WL (ft. bgs): <i>14.5</i> DATE: <i>01/22/99</i> TIME: <i>14:25</i>
DRILLING METHOD: <i>8 in. Hollow Stem Auger</i>	TOTAL DEPTH: <i>31.5 Feet</i>
DRILLING COMPANY: <i>Bay Area Exploration Inc.</i>	GEOLOGIST: <i>Barbara Sieminski</i>

DEPTH feet	SAMPLE NUMBER	BLOWS/FT. *	PID (ppm)	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
						CL	PAVEMENT - Asphalt. CLAY (CL) - very dark gray (5Y 3/1), moist, medium plasticity, stiff; 95% clay, 5% fine sand.	
5	MW4-6	15	0			ML-CL	CLAYEY SILT WITH SAND (ML-CL) - yellowish brown (10YR 5/8), damp, low plasticity, very stiff; 45% silt, 35% clay, 20% fine to coarse sand. Sand increases to 25-30%, trace fine gravel at 10 feet bgs.	
10	MW4-11	16	0			GC	CLAYEY GRAVEL WITH SAND (GC) - yellowish brown (10YR 5/8), damp, dense; 60% subrounded to well rounded fine to coarse gravel, 20% clay, 20% fine to coarse sand.	
15	MW4-15 MW4-16	0 30	0 0			ML	SANDY SILT (ML) - light yellowish brown (10YR 3/4), moist, low plasticity, stiff; 50% silt, 40% fine sand, 10% clay.	
20	MW4-20 MW4-21	0 15	0 0			GW-GM	GRAVEL WITH SAND AND SILT (GW-GM) - yellowish brown (10YR 5/8), saturated, medium dense; 60% subrounded to well rounded fine to coarse gravel, 30% fine to coarse sand, 10% silt.	
25	MW4-26	19	0				Bottom of boring at 31.5 feet.	
30	MW4-31	26	0				(* = converted to equivalent standard penetration blows/ft.)	

Gettler-Ryan, Inc.

Log of Boring MW-5

PROJECT: <i>Chevron SS 9-3322</i>	LOCATION: <i>7225 Bancroft Ave, Oakland, CA.</i>
GSI PROJECT NO.: <i>346433.02</i>	SURFACE ELEVATION: <i>40.37 ft. MSL</i>
DATE STARTED: <i>01/22/99</i>	WL (ft. bgs): <i>24.0</i> DATE: <i>01/22/99</i> TIME: <i>15:35</i>
DATE FINISHED: <i>01/22/99</i>	WL (ft. bgs): <i>20.6</i> DATE: <i>01/22/99</i> TIME: <i>16:15</i>
DRILLING METHOD: <i>8 in. Hollow Stem Auger</i>	TOTAL DEPTH: <i>31.5 Feet</i>
DRILLING COMPANY: <i>Bay Area Exploration Inc.</i>	GEOLOGIST: <i>Barbara Sieminski</i>

DEPTH feet	SAMPLE NUMBER	BLOWS/FT. *	PID (ppm)	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
						CL	PAVEMENT - Concrete. CLAY (CL) - very dark gray (5Y 3/1), moist, medium plasticity, stiff; 95% clay, 5% fine sand.	
5	MW5-6	14	0			ML-CL	CLAYEY SILT WITH SAND (ML-CL) - dark yellowish brown (10YR 4/6), damp, low to medium plasticity, stiff; 40-50% silt, 35% clay, 15-25% fine to coarse sand.	
10	MW5-11	13	0			CL	SANDY CLAY WITH GRAVEL (CL) - yellowish brown (10YR 5/8), damp, low plasticity, very stiff; 80% clay, 30% fine to coarse sand, 10% fine gravel.	
15	MW5-16	18	0			GC	CLAYEY GRAVEL WITH SAND (GC) - yellowish brown (10YR 5/8), damp, dense; 50% subrounded to well rounded fine to coarse gravel, 35% clay, 15% fine to coarse sand.	
20	MW5-21	18	0			ML	SILT (ML) - light yellowish brown (10YR 3/4), damp, low plasticity, very stiff; 50% silt, 30% fine sand, 20% clay.	
25	MW5-26	18	0			SW	SAND WITH GRAVEL (SW) - yellowish brown (10YR 5/4), saturated, medium dense; 80% fine to coarse sand, 15% well rounded fine gravel, 5% clay.	
30	MW5-31	20	0			GW-GM	GRAVEL WITH SAND AND SILT (GW-GM) - light olive brown (2.5Y 5/4), saturated, medium dense; 60% subrounded to well rounded fine to coarse gravel, 30% fine to coarse sand, 10% silt.	
35						SW	SAND (SW) - olive (5Y 5/3), saturated, medium dense; 90% fine to coarse sand, 10% well rounded fine gravel.	

Bottom of boring at 31.5 feet.
 (* = converted to equivalent standard penetration blows/ft.)

Gettler-Ryan, Inc.

Log of Boring MW-6

PROJECT: *Chevron SS 9-3322*

LOCATION: *7225 Bancroft Ave, Oakland, CA.*

GSI PROJECT NO.: *346433.02*

SURFACE ELEVATION: *39.84 ft. MSL*

DATE STARTED: *01/22/99*

WL (ft. bgs): *24.0* DATE: *01/22/99* TIME: *13:45*

DATE FINISHED: *01/22/99*

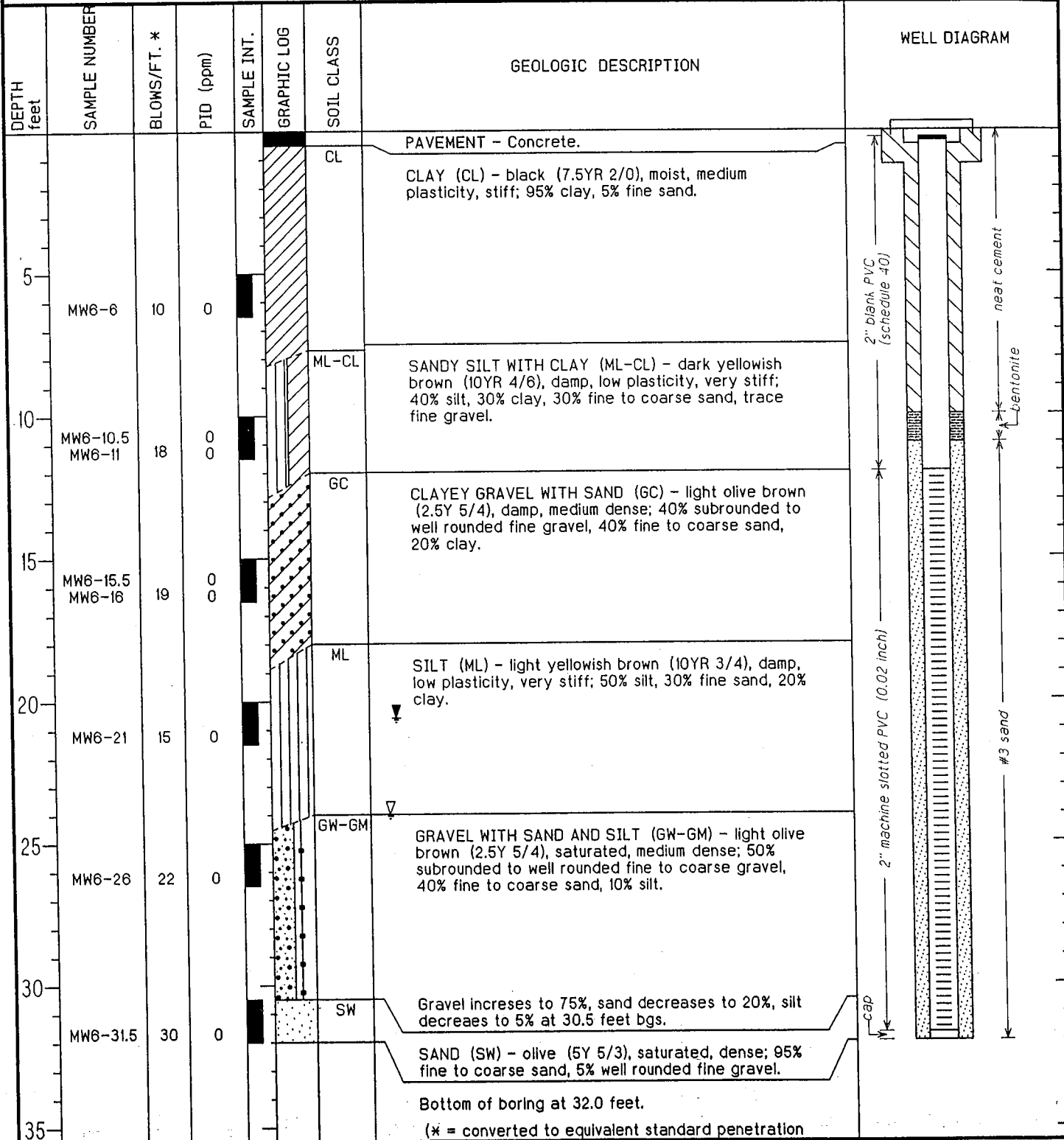
WL (ft. bgs): *20.6* DATE: *01/22/99* TIME: *16:10*

DRILLING METHOD: *8 in. Hollow Stem Auger*

TOTAL DEPTH: *32.0 Feet*

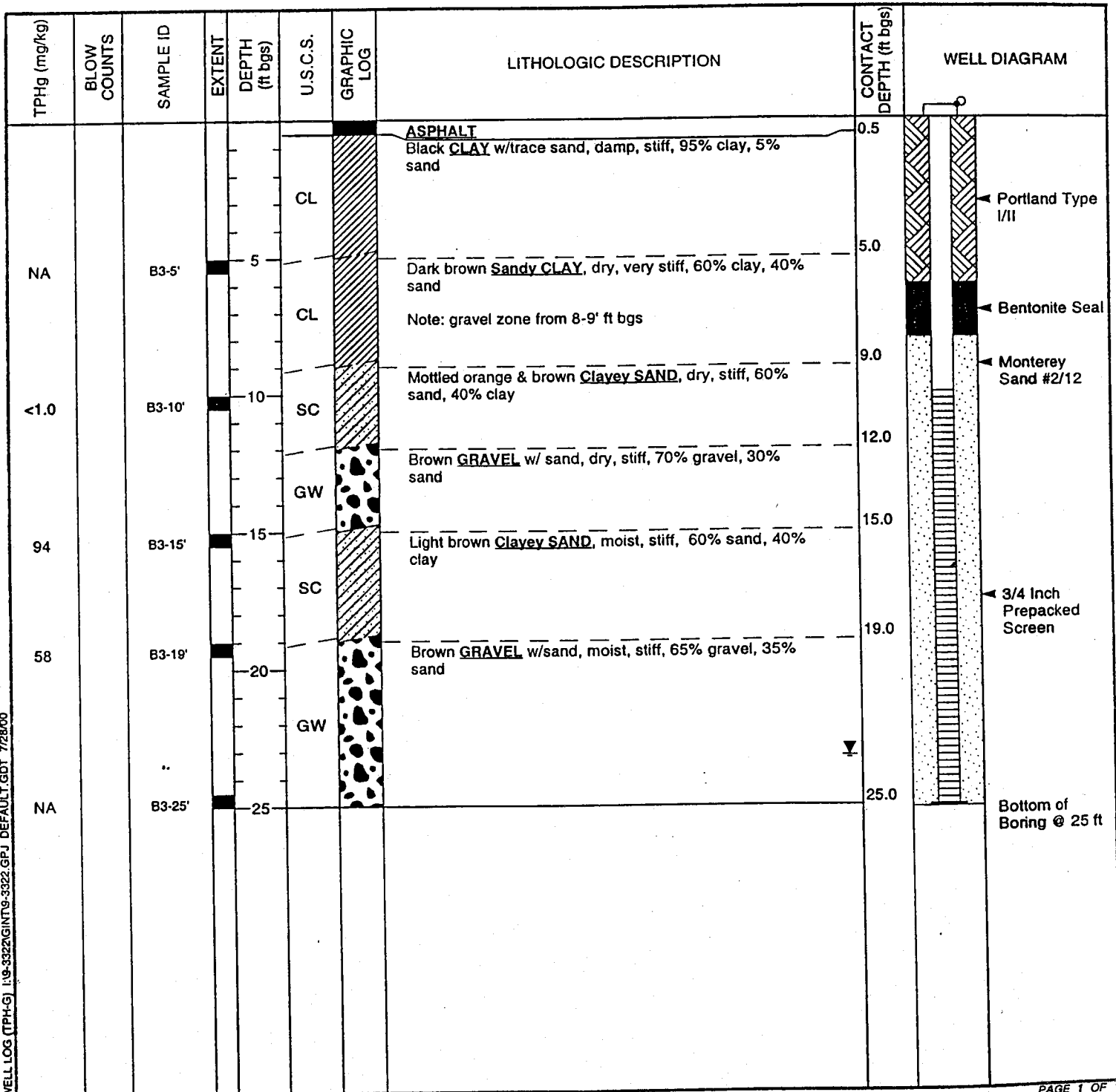
DRILLING COMPANY: *Bay Area Exploration Inc.*

GEOLOGIST: *Barbara Sieminski*



BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	B3/MW-7
JOB/SITE NAME	9-3322	DRILLING STARTED	03-Jul-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	03-Jul-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVAL	10 to 25 ft bgs
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	23.20 ft (05-Jul-00)
REMARKS	Hand augered to five feet bgs		



Gettler-Ryan, Inc.

Log of Boring MW-8

PROJECT: <i>Former Chevron Service Station No. 9-3322</i>	LOCATION: <i>7225 Bancroft Avenue, Oakland, California</i>
GR PROJECT NO.: <i>DG93322G.ACT1</i>	CASING ELEVATION: <i>37.21 ft. (MSL)</i>
DATE STARTED: <i>03/13/02</i>	WL (ft. bgs): DATE: TIME:
DATE FINISHED: <i>03/13/02</i>	WL (ft. bgs): <i>12.50</i> DATE: <i>03/13/02</i> TIME: <i>12:10</i>
DRILLING METHOD: <i>8 in. HSA - Limited Access Rig</i>	TOTAL DEPTH: <i>30 feet</i>
DRILLING COMPANY: <i>Gregg Drilling, Inc.</i>	GEOLOGIST: <i>Tony Mikacich</i>

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
5	-	MW-8-6.5	█		CL	CLAY WITH SAND (CL) - brown (10YR 5/3), moist; 80% clay, 20% fine sand, abundant iron oxidation, black organic matter.	
10	-	MW-8-11.5	█		CL	SANDY CLAY (CL) - brown (10YR 5/3), moist; 60% clay, 40% medium sand, trace fine gravels.	
15	-	MW-8-16.5	█		CL	CLAY WITH SAND (CL) - brown (10YR 5/3), moist; 80% clay, 20% fine sand, trace iron oxidation, trace gray nodules.	
20	-	MW-8-21.5	█		GC	CLAYEY GRAVEL WITH SAND (GC) - brown (10YR 5/3), wet; 60% fine to medium gravel, 20% clay, 20% medium sand, faint hydrocarbon odor.	
25	-	MW-8-26.5	█		SP	POORLY GRADED SAND (SP) - brown (10YR 5/3), wet; 90% fine to medium sand, 5% fine gravel, 5% silt.	
30	-	MW-8-30	█		GC	CLAYEY GRAVEL WITH SAND (GC) - brown (10YR 5/3), wet; 60% fine to medium gravel, 20% clay, 20% medium sand, hydrocarbon odor.	
30	-					Color changes to light olive brown (2.5Y 5/6). Bottom of boring at 30 feet bgs.	

Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: Former Chevron Service Station No. 9-3322

LOCATION: 7225 Bancroft Avenue, Oakland, California

GR PROJECT NO.: DG93322G.4CT1

CASING ELEVATION: 35.03 ft. (MSL)

DATE STARTED: 03/15/02

WL (ft. bgs): DATE: TIME:

DATE FINISHED: 03/15/02

WL (ft. bgs): 11.65 DATE: 03/15/02 TIME: 15:10

DRILLING METHOD: 8 in. HSA - Limited Access Rig

TOTAL DEPTH: 30 feet

DRILLING COMPANY: Gregg Drilling, Inc.

GEOLOGIST: Tony Mikacich

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0						Asphalt - 2 inches thick. Concrete - 6 inches thick.	
5	2	MW-9-6.5			CL	CLAY WITH SAND (CL) - black (7.5YR 2/0), moist; 80% clay, 20% fine to medium sand. Color changes to brown (10YR 5/3).	
10	14	MW-9-11.5				Includes trace fine gravels.	
15	6	MW-9-16.5			SC	CLAYEY SAND (SC) - brown (10YR 5/3), very moist; 70% fine to medium sand, 30% clay, trace fine gravels.	
20	8	MW-9-21.5				Color changes to light olive brown (2.5Y 5/6).	
25	6	MW-9-26.5			GP-GC	POORLY GRADED GRAVEL WITH SAND AND CLAY (GP-GC) - olive brown (10YR 5/3), wet; 60% subrounded fine gravel, 30% medium sand, 10% clay.	
30	12	MW-9-30				Bottom of boring at 30 feet bgs.	
35							

Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: Former Chevron Service Station No. 9-3322

LOCATION: 7225 Bancroft Avenue, Oakland, California

GR PROJECT NO.: DG933226.4CT1

CASING ELEVATION: 35.53 ft. (MSL)

DATE STARTED: 03/15/02

WL (ft. bgs): DATE: TIME:

DATE FINISHED: 03/15/02

WL (ft. bgs): 12.60 DATE: 03/15/02 TIME: 15:10

DRILLING METHOD: 8 in. HSA - Limited Access Rig

TOTAL DEPTH: 30 feet

DRILLING COMPANY: Gregg Drilling, Inc.

GEOLOGIST: Tony Mikacich

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0					CL	Concrete - 3 inches thick.	
5					CL	SANDY CLAY (CL) - dark brown (10YR 3/3), moist; 70% clay, 30% fine to medium sand, trace fine to medium gravels.	
4		MW-10-6.5				Color changes to brown (10YR 5/3); includes trace iron oxidation.	
8		MW-10-11.5			SC	CLAYEY SAND (SC) - light olive brown (2.5Y 5/4), moist; 60% fine to medium sand, 40% clay, trace fine gravels.	
15		MW-10-16.5			CL	SANDY CLAY (CL) - light olive brown (2.5Y 5/4), wet; 70% clay, 30% fine to medium sand, trace fine gravels, trace iron oxidation, black organic matter.	
20		MW-10-21.5			GC	CLAYEY GRAVEL WITH SAND (GC) - olive (5Y 5/3), wet; 50% subrounded fine gravel, 30% fine to medium sand, 20% clay.	
25		MW-10-26.5			GP-GC	POORLY GRADED GRAVEL WITH SAND AND CLAY (GP-GC) - olive (5Y 5/3), wet; 50% subrounded fine gravel, 40% fine to medium sand, 10% clay.	
30		MW-10-30				Bottom of boring at 30 feet bgs.	
35							

BORING/WELL LOG

Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170



CLIENT NAME Chevron Products Company
 JOB/SITE NAME 9-3322
 LOCATION 7225 Bancroft Ave, Oakland, CA
 PROJECT NUMBER 31A-1806
 DRILLER Vironex
 DRILLING METHOD Hydraulic push
 BORING DIAMETER 2"
 LOGGED BY Albert Simmons
 REVIEWED BY Bob Foss
 REMARKS Hand augered to five feet bgs

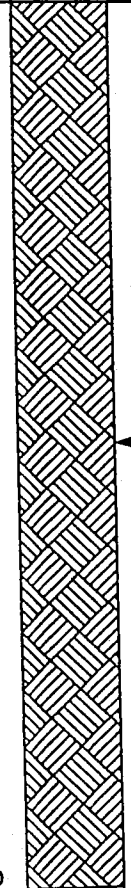
BORING/WELL NAME B1
 DRILLING STARTED 03-Jul-00
 DRILLING COMPLETED 03-Jul-00
 WELL DEVELOPMENT DATE (YIELD) NA
 GROUND SURFACE ELEVATION Not Surveyed
 TOP OF CASING ELEVATION NA
 SCREENED INTERVAL NA
 DEPTH TO WATER (First Encountered) ▽
 DEPTH TO WATER (Static) NA ▽

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
NA		B1-5'		5	CL		ASPHALT Black CLAY w/trace sand, damp, stiff, 95% clay, 5% sand	0.5	
					CL		Brown Sandy CLAY, dry, very stiff, 80% clay, 20% sand	5.0	
					CL		Brown Sandy CLAY w/gravels, dry, stiff, 60% clay, 30% sand, 10% gravels	8.0	
<1.0		B1-10'		10	CL				
					CL				
NA		B1-15'		15	GC		Olive Clayey GRAVEL w/ sand, damp to moist, soft, 35% gravel, 30% clay, 20% sand	15.0	
<1.0		B1-17.5'		17.5	CL		Light brown Sandy CLAY, moist, very stiff, 60% clay, 40% sand	18.0	
				20	CL				
								24.0	Bottom of Boring @ 24 ft

WELL LOG (TPH-G) I:9-3322\GINT9-3322.GPJ DEFAULT.GDT 7/28/00

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	B2
JOB/SITE NAME	9-3322	DRILLING STARTED	03-Jul-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	03-Jul-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA 
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	NA 
REMARKS	Hand augered to five feet bgs		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							CONCRETE Black CLAY w/trace sand, damp, stiff, 95% clay, 5% sand	0.5	 <p>Portland Type I/II</p> <p>Bottom of Boring @ 24 ft</p>
<1.0		B2-5'		5	CL		Dark brown Sandy CLAY , dry, very stiff, 60% clay, 40% sand	5.0	
<1.0		B2-10'		10	CL		Dark brown Clayey GRAVEL w/sand, dry, stiff, 45% gravel, 35% clay, 20% sand	11.0	
NA		B2-15'		15	GC		Olive Sandy GRAVEL w/clay, moist, stiff, 50% gravel, 30% sand, 20% clay	16.0	
140		B2-18'		20	GC		Olive Clayey GRAVEL w/sand, moist, stiff, 50% gravel, 30% clay, 20% sand	20.0	
				24.0	GC			24.0	

WELL LOG (TPH-G) I:\9-3322\GINT\9-3322.GPJ DEFAULT.GDT 7/28/00

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	B3/MW-7
JOB/SITE NAME	9-3322	DRILLING STARTED	03-Jul-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	03-Jul-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVAL	10 to 25 ft bgs
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	23.20 ft (05-Jul-00)
REMARKS	Hand augered to five feet bgs		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
NA		B3-5'		5	CL		ASPHALT Black CLAY w/trace sand, damp, stiff, 95% clay, 5% sand	0.5	Portland Type I/II
					CL		Dark brown Sandy CLAY, dry, very stiff, 60% clay, 40% sand	5.0	Bentonite Seal
					CL		Note: gravel zone from 8-9' ft bgs		
<1.0		B3-10'		10	SC		Mottled orange & brown Clayey SAND, dry, stiff, 60% sand, 40% clay	9.0	Monterey Sand #2/12
					GW		Brown GRAVEL w/ sand, dry, stiff, 70% gravel, 30% sand	12.0	
94		B3-15'		15	SC		Light brown Clayey SAND, moist, stiff, 60% sand, 40% clay	15.0	
					GW		Brown GRAVEL w/sand, moist, stiff, 65% gravel, 35% sand	19.0	3/4 Inch Prepacked Screen
58		B3-19'		20	GW				
NA		B3-25'		25				25.0	Bottom of Boring @ 25 ft

WELL LOG (TPH-G) I:\9-3322\GINT9-3322.GPJ DEFAULT.GDT 7/28/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	SB4
JOB/SITE NAME	9-3322	DRILLING STARTED	25-Sep-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	25-Sep-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	1.5"	SCREENED INTERVAL	NA
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	24.50ft (25-Sep-00)
REMARKS	Hand augered to five fbg		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM	
							ASPHALT Dark brown CLAY with trace sand, damp, stiff, 95% clay, 5% sand	0.5		
		SB4-3'			CL					
		SB4-5'		5	CL		Dark brown Sandy CLAY , dry, stiff, 60% clay, 40% sand	5.0		
					CL					
		SB4-10'		10	CL		Light brown mottled with greenish grey Sandy CLAY , dry, very stiff, 70% clay, 30% sand	9.0		
					GC		Brown with mottled greenish grey Clayey GRAVEL with sand, dry, stiff, 45% gravel, 35% sand, 20% clay	12.0		
							Light brown Sandy CLAY , dry, stiff, 60% clay, 40% sand	13.5		← Portland Type I/II
		SB4-15'		15	CL		@ 15' Color changes to olive brown; moisture content increases to damp			
		SB4-18'					Olive brown Sandy CLAY , moist, stiff, 60% clay, 40% sand	17.0		
		SB4-20'		20	CL					
		SB4-24'		25	SC		Light brown Clayey SAND , wet, soft, 60% sand, 40% clay	23.0		
								25.0	Bottom of Boring @ 25 ft	

WELL LOG (TPH-G) I: 9-3322-1(GINT)9-3322.GPJ DEFAULT.GDT 9/29/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	SB5
JOB/SITE NAME	9-3322	DRILLING STARTED	25-Sep-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	25-Sep-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	1.5"	SCREENED INTERVAL	NA
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	17.50ft (25-Sep-00)
REMARKS	Hand augered to five fbg		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT Black CLAY with trace sand, damp, stiff, 95% clay, 5% sand	0.5	<p>Portland Type I/II</p> <p>Bottom of Boring @ 25 ft</p>
		SB5-3'			CL			4.0	
		SB5-5'		5	CL		Light brown Sandy CLAY , dry, very stiff, 60% clay, 40% sand @ 5' Color changes to dark brown	6.0	
		SB5-10'		10	CL		Light brown Sandy CLAY , dry, very stiff, 60% clay, 40% sand	9.0	
		SB5-16'		15	CL		Olive brown mottled with greenish grey Sandy CLAY with gravel, moist, stiff, 55% clay, 30% sand, 15% gravel	14.0	
		SB5-20'		20	GC		Olive Clayey GRAVEL with sand, wet, soft, 50% gravels, 35% sand, 15% clay	16.0	
		SB5-24'		25	SC		Olive Clayey SAND saturated, soft, 70% sand, 30% clay	23.0	
								25.0	

WELL LOG (TPH-G) 1:9-3322-1GINTD-3322 GPJ DEFAULT.GDT 9/29/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	SB6
JOB/SITE NAME	9-3322	DRILLING STARTED	25-Sep-00
LOCATION	7225 Bancroft Ave, Oakland, CA	DRILLING COMPLETED	25-Sep-00
PROJECT NUMBER	31A-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	1.5"	SCREENED INTERVAL	NA
LOGGED BY	Albert Simmons	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	Bob Foss	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to five fbg		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		SB6-3'			CL		ASPHALT Black CLAY with trace sand, dry, stiff, 95% clay, 5% sand	0.5	
		SB6-5'		5	CL		Brown Sandy CLAY , dry, stiff, 60% clay, 40% sand	6.0	
		SB6-10'		10	CL		Brown Sandy CLAY , dry, stiff, 60% clay, 40% sand	7.0	
				15	GC		Brown Clayey GRAVEL with sand, moist, stiff, 45% gravel, 35% sand, 20% clay	10.0	
				20	SC		Olive Clayey SAND , moist, stiff, 70% sand, 30% clay @ 21' Color changes to light brown	12.0	
		SB6-23'		23	CL		Light brown Sandy CLAY , moist-wet, medium stiff, 60% clay, 40% sand	15.0	
				25				19.0	
								23.0	
								25.0	

WELL LOG (TPH-G) I:\9-3322-1\GINT\9-3322.GPJ DEFAULT.GDT 9/29/00



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-1
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	
					ML		Clayey SILT with sand: Dark brown; dry; stiff; 50% silt, 45% clay, 5% sand; moderate plasticity; low estimated permeability.		Portland Type I/II
				5					Monterey Sand #2/12
					ML		Clayey SILT with sand: Dark brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; low estimated permeability.	6.5	Portland Type I/II
					ML		Clayey SILT with sand: Brown; dry; stiff; 70% silt, 20% clay, 10% sand; low plasticity; moderate estimated permeability.	7.0	Monterey Sand #2/12
					ML		Sandy SILT with gravel: Brown-orange; dry; stiff; 70% silt, 25% sand, 5% gravel; low plasticity; moderate to high estimated permeability.	8.0	Portland Type I/II
					ML		Clayey SILT with sand: Brown-orange with black mottling; dry; very stiff; 65% silt, 30% clay, 5% sand; moderate plasticity; low estimated permeability.	9.0	Monterey Sand #2/12
				10				10.3	Bottom of Boring @ 10.25 fbg

WELL LOG (PID) I:\CHEVRON\3118--\311806--\311806--3\GINTY9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 1/21/09



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-2
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	1.0	
					ML		CLAY SILT with sand and gravel: Dark brown; damp; moderately soft; 40% clay, 40% silt, 10% sand, 10% gravel; moderate plasticity; moderate estimated permeability.	2.5	Portland Type I/II
					GC		CLAYEY GRAVEL with silt: Grey brown; wet; 45% clay, 45% gravel, 10% silt; low plasticity; high estimated permeability.	3.0	
					CL		Silty CLAY with sand: Dark brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	5.0	Monterey Sand #2/12
					CL		Silty CLAY with sand: Brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	6.0	Portland Type I/II
					CL		Silty CLAY with sand: Brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	9.0	Monterey Sand #2/12
					CL		Sandy SILT with clay and gravel: Brown-orange; damp; very stiff; 65% silt, 20% sand, 10% clay, 5% gravel; low plasticity; high estimated permeability.	10.0	Portland Type I/II
								11.5	Monterey Sand #2/12
									Bottom of Boring @ 11.5 fbg

WELL LOG (PID) I:\CHEVRON\3118--\311806--\311806--3\GINT\9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 1/21/09



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-3
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	1.0	
					ML		Clayey SILT with gravel: Dark brown; dry; stiff; 55% silt, 40% clay, 5% gravel; moderate plasticity; moderate estimated permeability.		
				5	ML		CLAY SILT: Dark brown; dry; 50% clay, 50% silt; moderate plasticity; low estimated permeability.	5.0	
					ML		Clayey SILT with sand: Brown; dry; stiff; 55% silt, 40% clay, 5% sand; moderate plasticity; low estimated permeability.	6.0	
					ML		Clayey SILT with gravel and sand: Brown-orange; dry; stiff; 55% silt, 30% clay, 10% gravel and 5% sand; low moderate estimated permeability.	7.0	
					ML		Clayey SILT with sand and gravel: Brown-orange; dry; stiff; 60% silt, 20% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.	8.0	
					ML		Clayey SILT with sand and gravel: Brown-orange; dry; stiff; 50% silt, 30% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.	9.0	
				10	ML			11.5	

WELL LOG (PID) I:\CHEVRON\3118--311806--31GINT\9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 1/21/09



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-4
JOB/SITE NAME	9-3322	DRILLING STARTED	16-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	16-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	1.0	
					CL		Silty CLAY with sand: Dark brown; dry; stiff; 50% clay, 45% silt, 5% sand; high plasticity; low estimated permeability.		Portland Type I/II
				5					Monterey Sand #2/12
					ML		Clayey SILT with sand: Light brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; moderate estimated permeability.	7.0	Portland Type I/II
					ML		Clayey SILT with sand and gravel: Brown-orange; dry; stiff; 50% silt, 35% clay, 10% sand, 5% gravel; moderate plasticity; moderate estimated permeability.	8.0	Monterey Sand #2/12
					CL		Silty CLAY with sand: Brown-orange; dry; stiff; 50% clay, 45% silt, 5% sand; moderate plasticity; low estimated permeability.	9.0	Portland Type I/II
				10				10.0	Monterey Sand #2/12
					ML		Clayey SILT with gravel and sand: Brown-orange; dry; stiff; 45% silt, 40% clay, 10% gravel, 5% sand; moderate plasticity; moderate estimated permeability.	11.5	
									Bottom of Boring @ 11.5 fbg

WELL LOG (PID) I:\CHEVRON\3118--\311806-1\311806-3\GINT\9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 1/21/09

Appendix E

LNAPL Fingerprint Report

**CHEVRONTEXACO ENERGY TECHNOLOGY COMPANY
INTEGRATED LABORATORY TECHNOLOGIES UNIT
PROJECT SUMMARY**

Project No.	2005.0007	Requested by	M. Inglis
Date Initiated	2/25/05	Location	CEMC
Date Completed	3/15/05		P.O. Box 6012 (K2256)
CRTC Charge Code	YWETS1570047		San Ramon, CA 94583
		Phone	(925)842-1589

Project Description: Analyze one hydrocarbon sample from a former Chevron service station, facility #9-3322 located at 7225 Bancroft Avenue, Oakland, CA. The sample is labeled MW-1. Identify the hydrocarbon type present. Compare with a previous sample from this site, 1999.0063.

Results: The sample contains weathered leaded gasoline. It contains 0.25g/gal lead consisting primarily of tetraethyllead (TEL). The gasoline has lost most of its normal paraffins, iso-octane and olefins. It has also lost its most of the lighter aromatics (benzene, toluene ethylbenzenes and xylenes) to water washing and/or microbial action. This gasoline sample has no detectable oxygenates (<0.1 wt %).

Data from the previous sample (1999.0063 water sample) shows that it was more biodegraded and/or water washed than the current sample. It had lost most of its light ends. TEL was detected in the 1999 sample.

Sample	C5- (area%)	C6-C10 (area %)	C11-C14 (area %)	C15-C25+ (area %)
MW-1 Product	1.57	80.75	16.85	0.83
MW-1 (1999.0063) water sample	0.19	78.13	20.62	1.07

Analytical Approach: The sample was analyzed by gas chromatography using a flame ionization detector to determine the hydrocarbon composition and an electron capture detector to measure the lead alkyl isomer distribution. Oxygenates were measured by ASTM method D4815. Total lead was measured by Inductively Coupled Plasma Spectrometry.

Analyzed by: G. C. Chen, A. Hackett, R. Joves

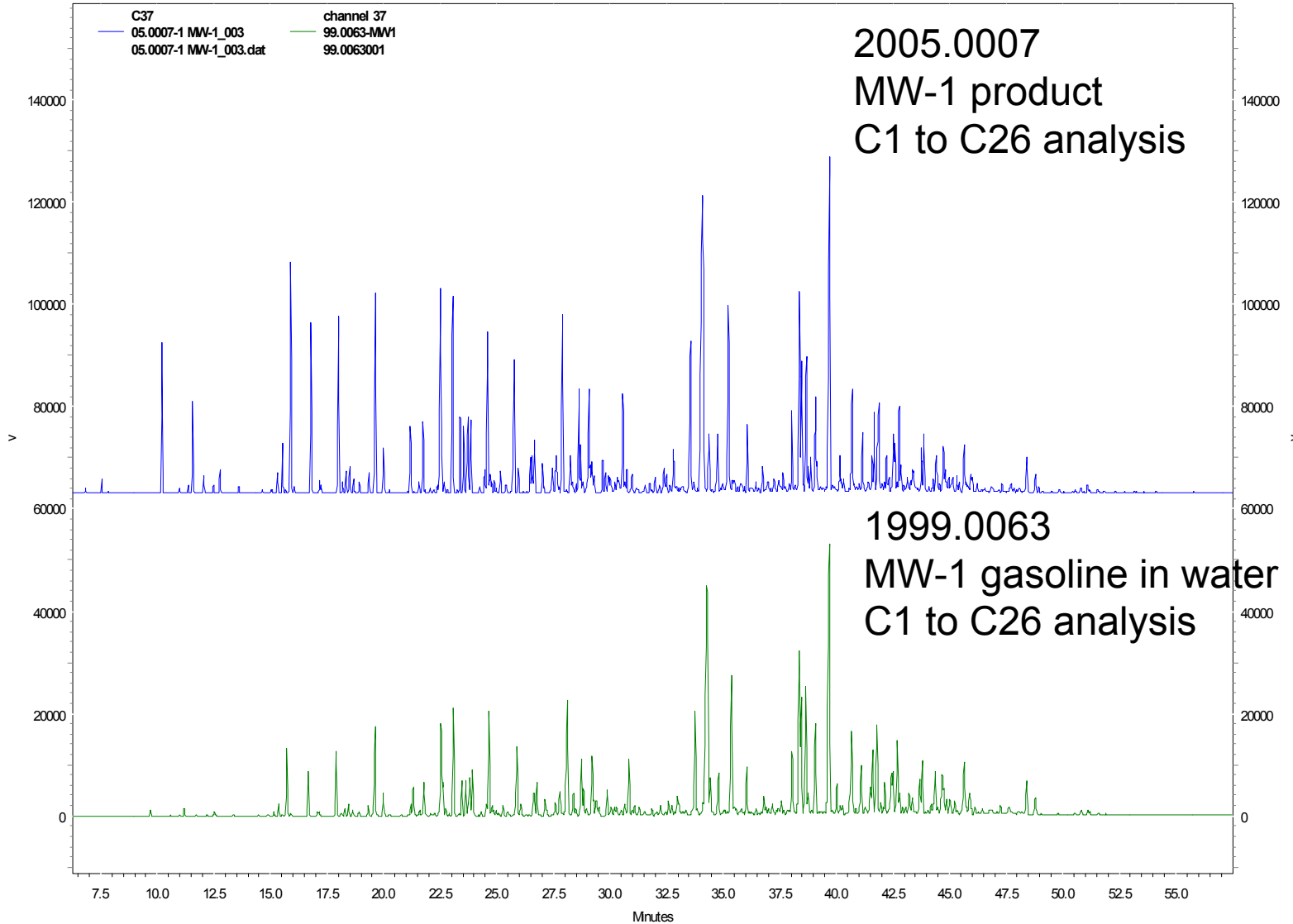
Reported by: G. C. Chen *GCC*

Reviewed by: M. E. Moir *MEM*

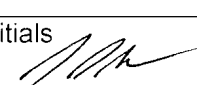
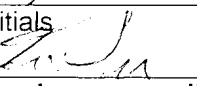
MInglis
AWVerstuyft
GCChen

BFoss
MEMoir

Technical files
ECTfile



**Request for Environmental Analysis
and Chain of Custody**

To: Environmental Analysis Lab, Room 51-1151, ChevronTexaco Energy Technology Co., 100 Chevron Way, Richmond, CA 94802 Contact: Grace Chen 510-242-5918 or Michael Moir 510-242-1634		Date 2/21/05	
ChevronTexaco PM Mark Inglis		Phone 925-842-1589	
Company, Department Chevron EMC	EMC Bus. Unit, if applicable	Charge Code	
Address P.O. Box 6012 (K2256), San Ramon, CA 94583			
Contract PM (Consultant) Bob Foss	E-mail bfoss@cambria-env.com	Phone 510-420-3348	
Company, Address 5900 Hollis St., Suite A, Emeryville, CA 94608			
Sampling Location (Address) 7225 Bancroft Avenue, Oakland, CA		Facility Number Former Chevron #9-3322	
(xx) Service Station () Fuel Terminal () Marine Terminal () Pipeline () Refinery () Other			
(xx) Chevron () Texaco () Gulf () BP () Cumberland Farms () Other			
Type of Analysis Desired (xx) Identify Product () Compare Spill with Potential Sources (Send Source Samples) () Compare Samples with Previous Analyses. Log Numbers and/or Dates: () Other (Call 510-242-5918 or 510-242-1634 for Approval)			
Reason for Request (Clearly State Problem, Site History, Draw or Enclose a Map, Indicate Whether Leak or Spill) Identify product, previous samples were submitted approximately three years ago.			
Normal turn-around time is 4 weeks. Call 510-242-1634 to negotiate alternate arrangements.			
Number of Containers Per Sample 1	Sample Name/Description MW-1 (Monitoring Well)	Date Sampled 2/21/05	Sampled By J. Herron
Transporter Gettler-Ryan, Inc.	HR 2/25/05	Date Received 2/21/05	Initials 
Laboratory ChevronTexaco Energy Research & Technology		Date Received 2-25-05	Initials 
It is the shipper's responsibility to ensure Federal DOT regulations and UN performance standards are complied with. Consultation with a ChevronTexaco Regional Transport Specialist is Mandatory prior to air shipment.			

Appendix F

Concentration Trend Graphs

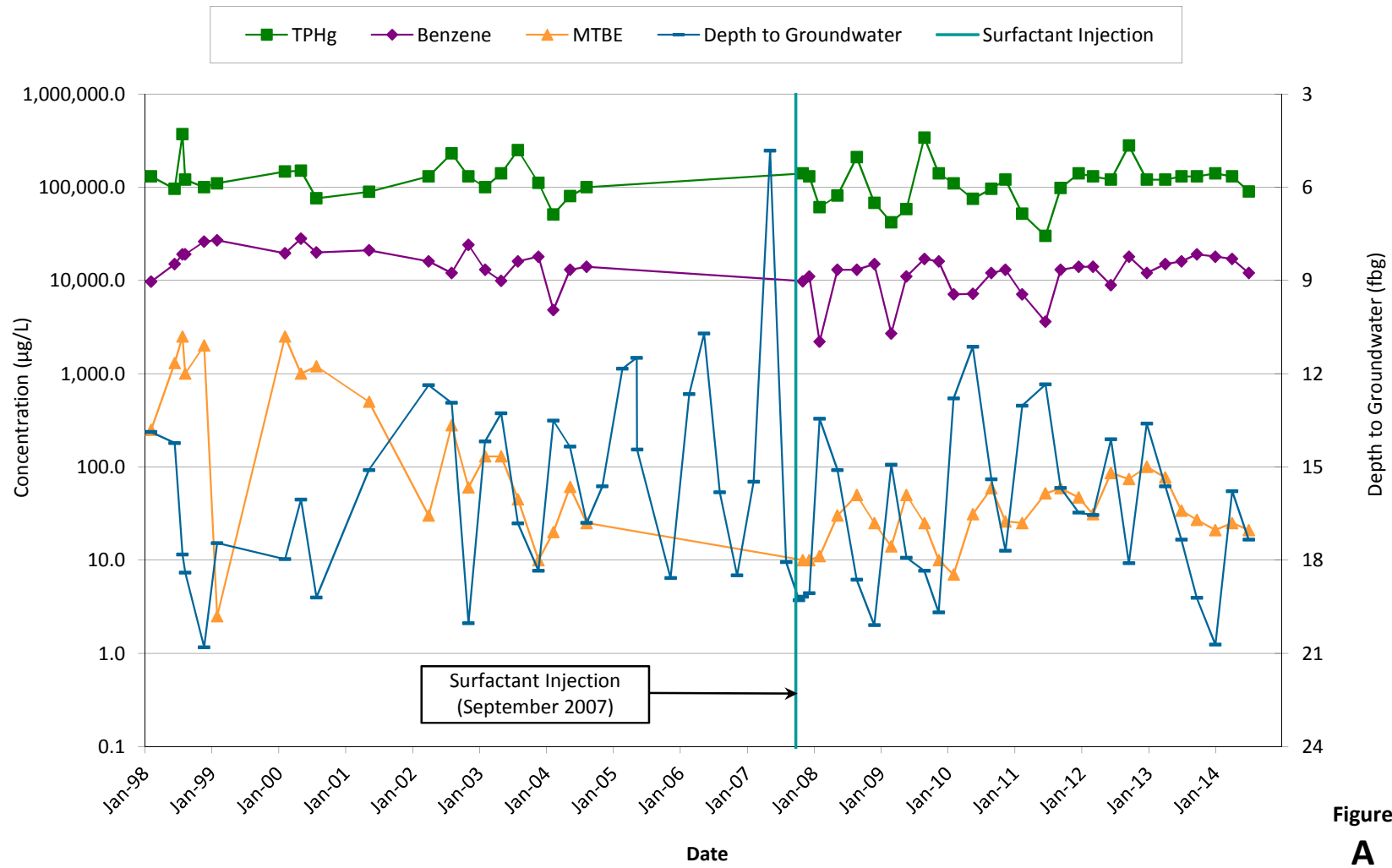


Figure A

**FORMER CHEVRON STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**



**MW-1: TPHg, BENZENE, AND MTBE
CONCENTRATIONS AND DEPTH TO
GROUNDWATER**

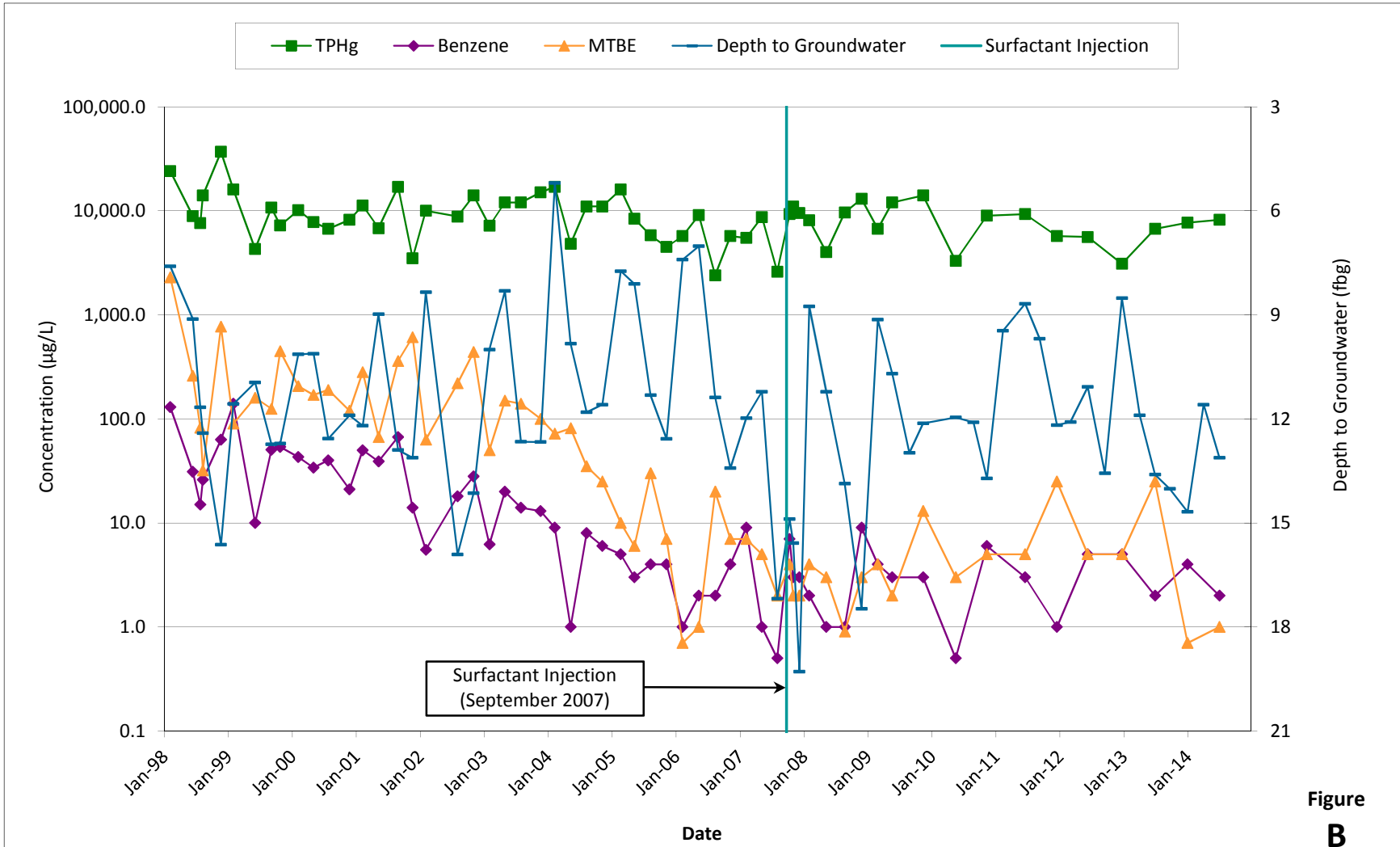


Figure B

FORMER CHEVRON STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA



MW-2: TPHg, BENZENE, AND MTBE
 CONCENTRATIONS AND DEPTH TO
 GROUNDWATER

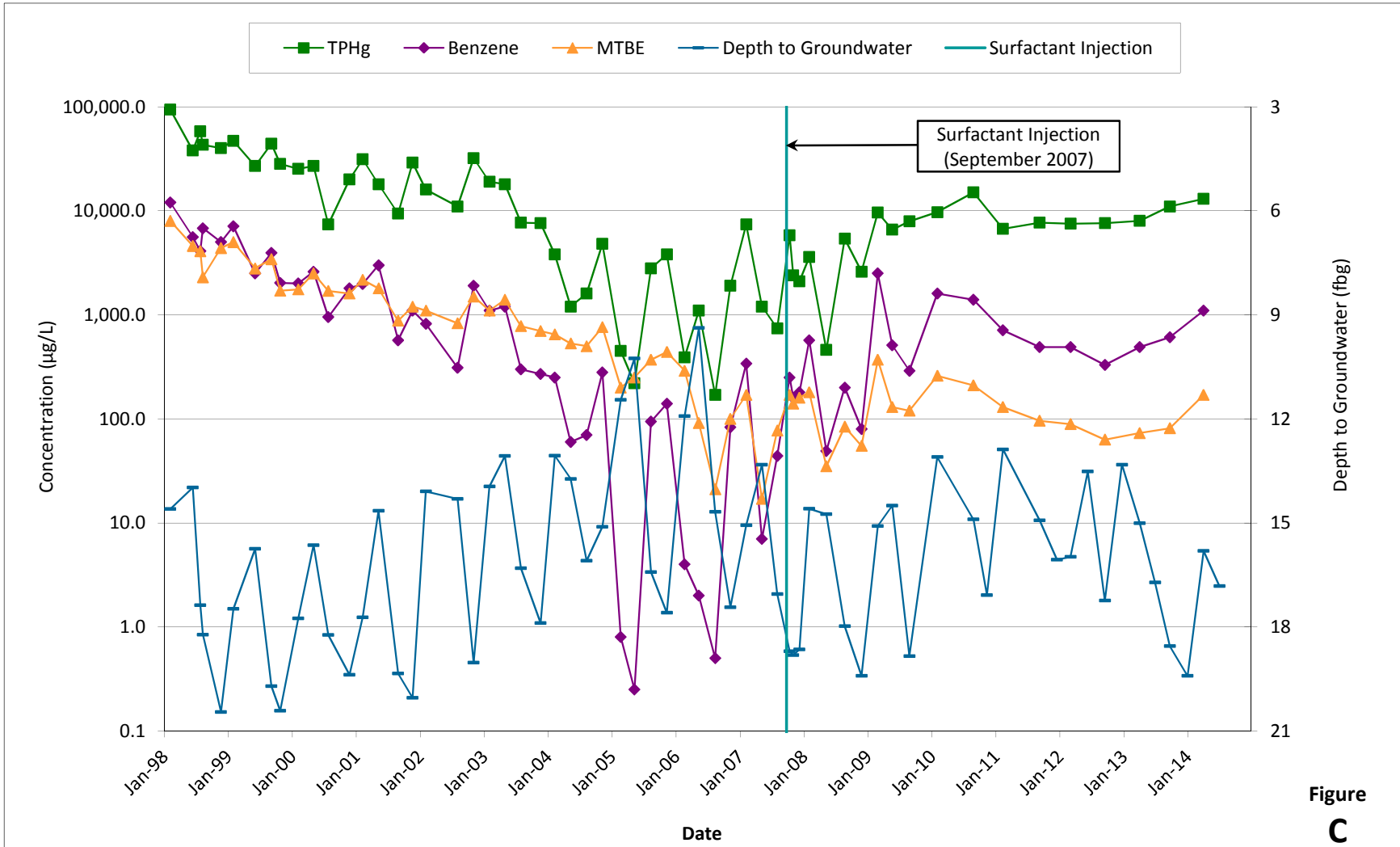


Figure
C

FORMER CHEVRON STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA



MW-3: TPHg, BENZENE, AND MTBE
CONCENTRATIONS AND DEPTH TO
GROUNDWATER

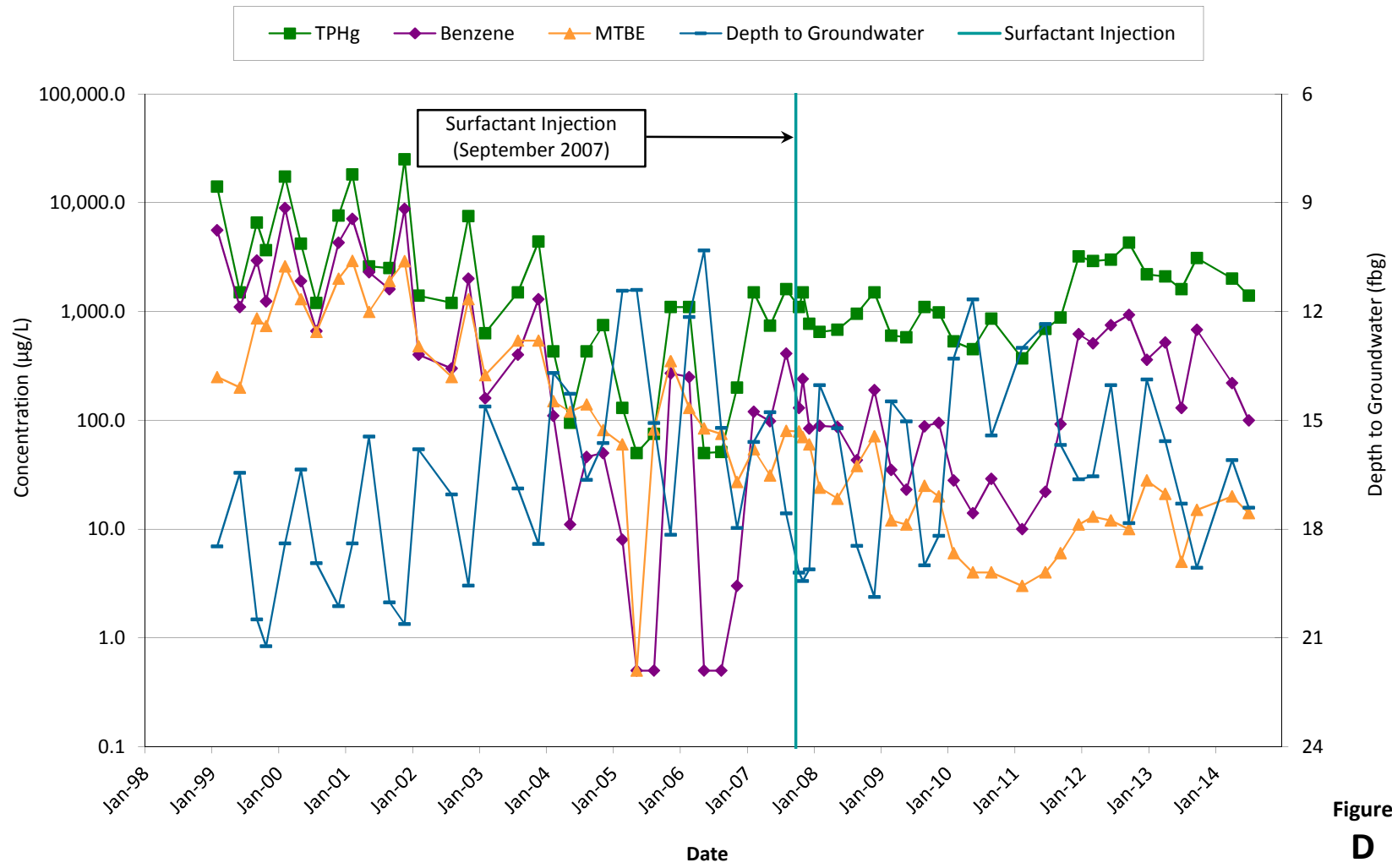


Figure D

**FORMER CHEVRON STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**



**MW-6: TPHg, BENZENE, AND MTBE
CONCENTRATIONS AND DEPTH TO
GROUNDWATER**

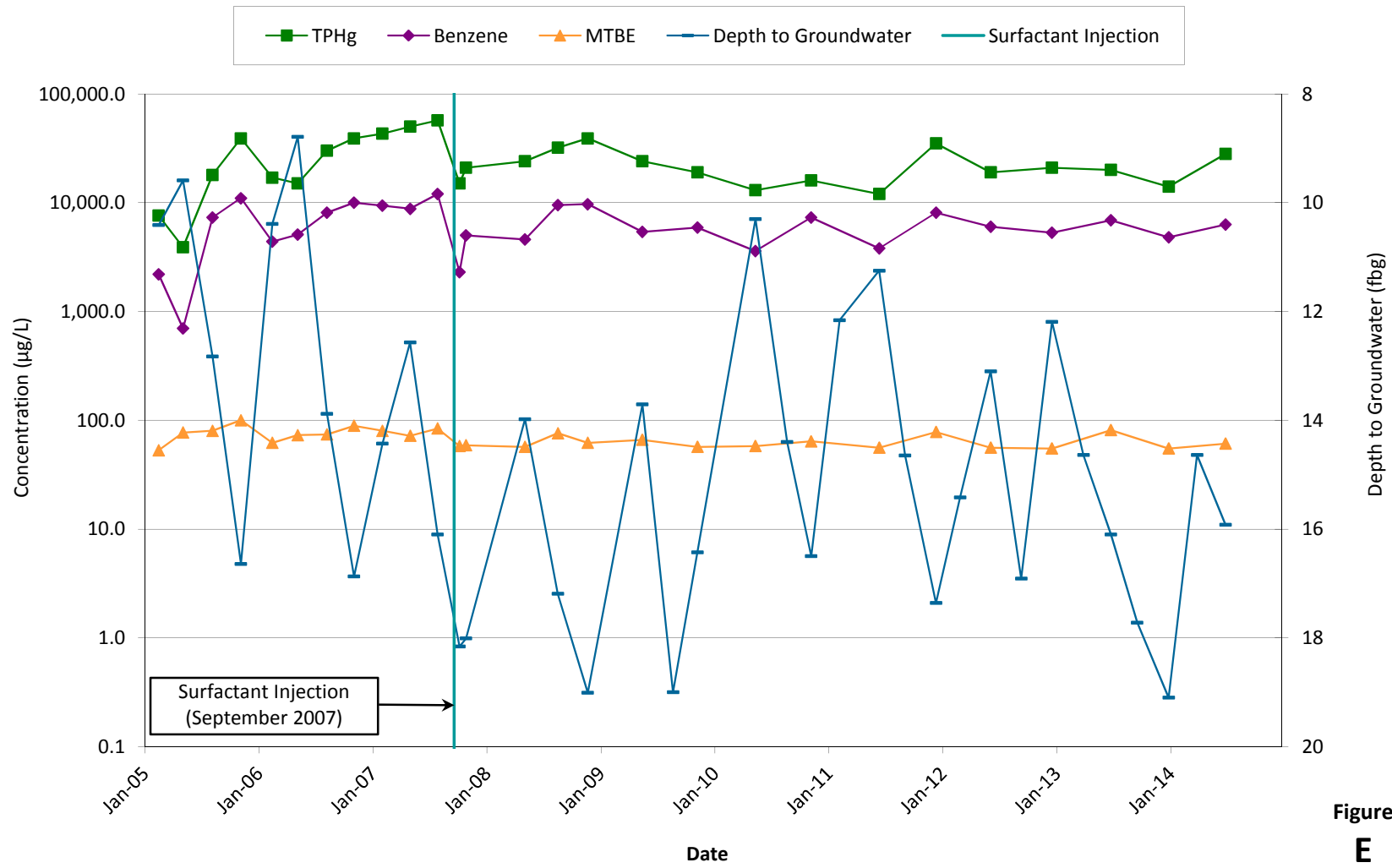


Figure E

**FORMER CHEVRON STATION 93322
7225 BANCROFT AVENUE
OAKLAND, CALIFORNIA**



**MW-7: TPHg, BENZENE, AND MTBE
CONCENTRATIONS AND DEPTH TO
GROUNDWATER**

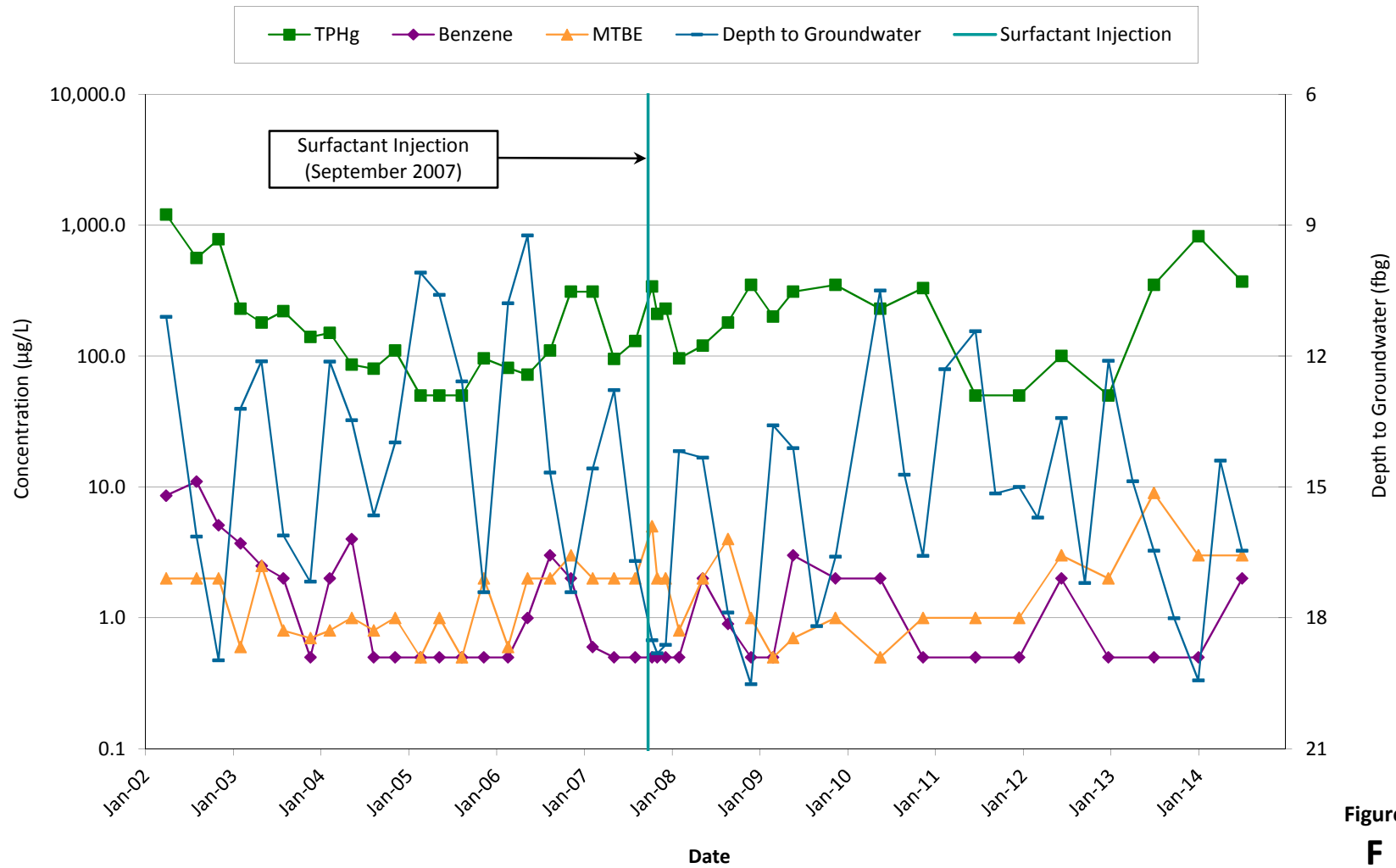


Figure F

FORMER CHEVRON STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA



MW-8: TPHg, BENZENE, AND MTBE
 CONCENTRATIONS AND DEPTH TO
 GROUNDWATER

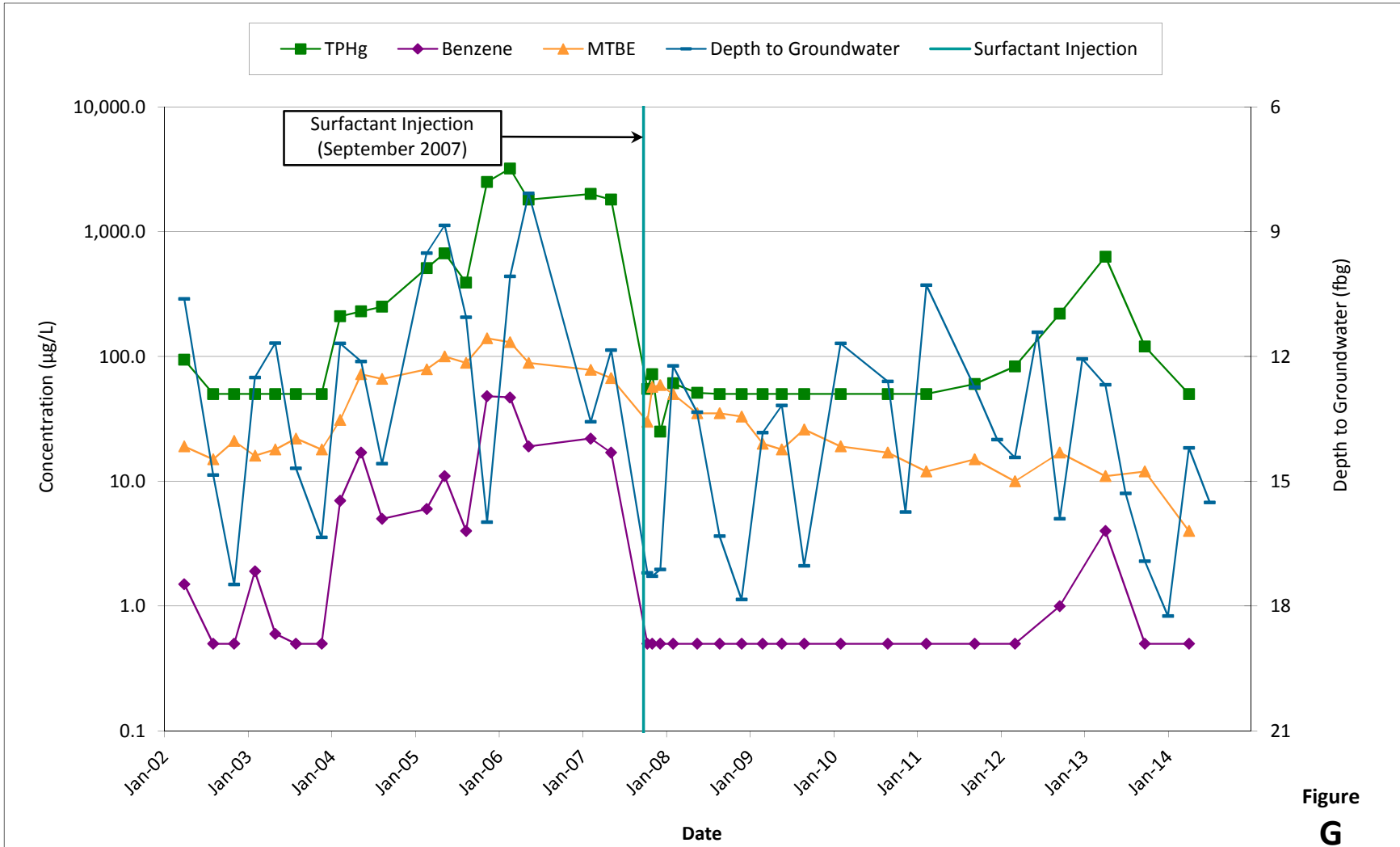


Figure G

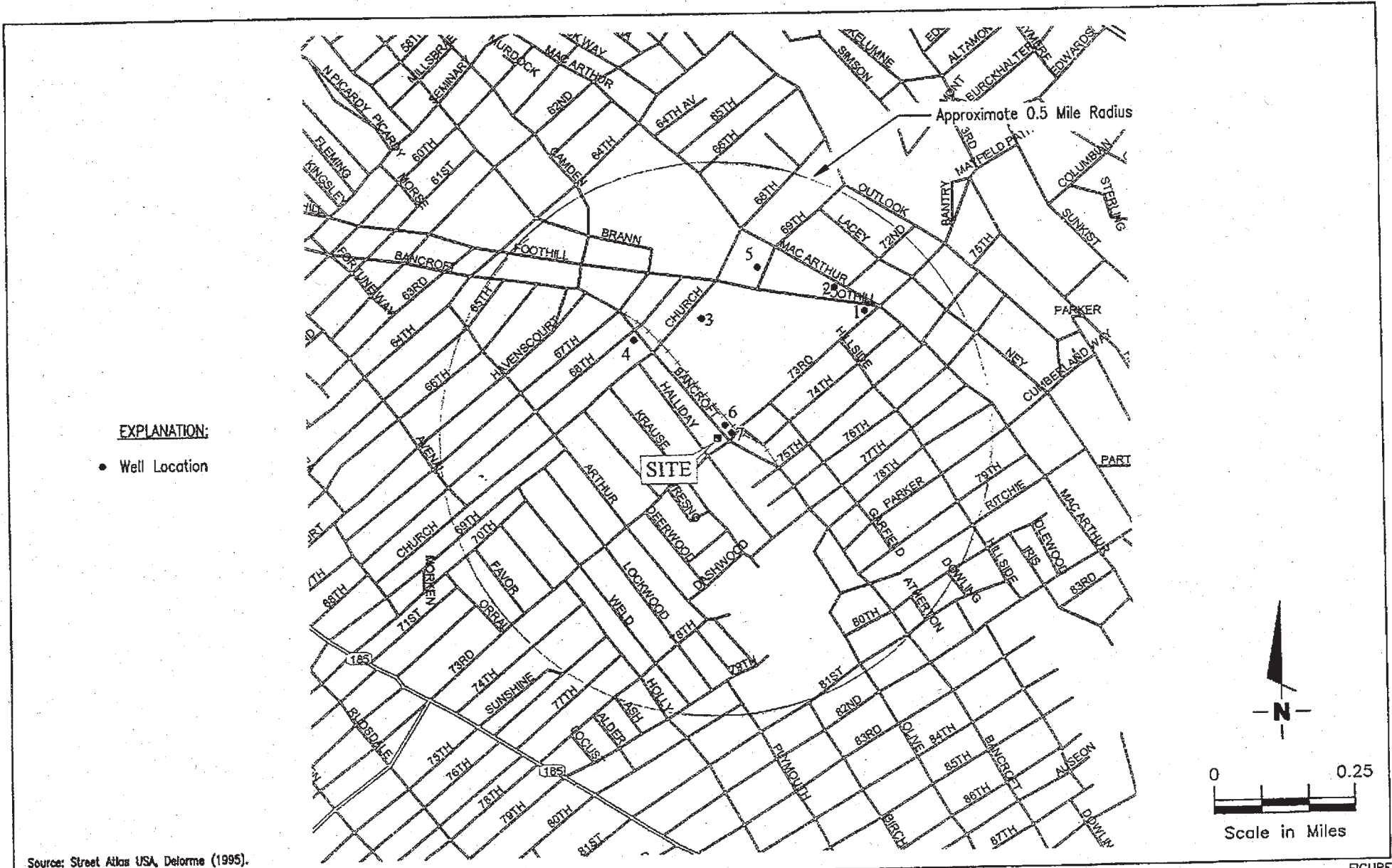
FORMER CHEVRON STATION 93322
 7225 BANCROFT AVENUE
 OAKLAND, CALIFORNIA



MW-9: TPHg, BENZENE, AND MTBE
 CONCENTRATIONS AND DEPTH TO
 GROUNDWATER

Appendix G

Well Survey Map and Table



Source: Street Atlas USA, Delorme (1995).

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
 Dublin, CA 94568

VICINITY MAP
 Chevron Service Station No. 9-3322
 7225 Bancroft Avenue
 Oakland, California

FIGURE

1

JOB NUMBER
 346433

REVIEWED BY

DATE
 07/98

REVISED DATE

TABLE 1 - WELL SEARCH DATA
Chevron Service Station #9-3322
7225 Bancroft Avenue
Oakland, California

Map ID	Well Owner	Well Location	Well Use	State Well Number	Year Installed
1	Topa Savings Bank	Foothill Boulevard and 73rd Avenue	Test	02S03W10J	1989
2	City of Oakland	7100 Foothill Boulevard	Monitoring	02S03W10J	1993
3	Topa Savings Bank	Church Street and Bancroft Avenue	Test	02S03W10K	1989
4	Exxon Oil Co.	Bancroft Avenue and 68th Street	Other	02S03W10L	1977
5	Chevrolet - Oakland Div.	Foothill Boulevard and 69th Street	Industrial	02S03W10Q	1951
6	Topa Savings Bank	Eastmont Mall: Bancroft Ave. and 73rd Ave.	Test	02S03W10Q	1989
7	BP Oil Co.	Bancroft Avenue and 73rd Ave.	Monitoring	02S03W10Q	1992

Well data information was collected on July 9, 1998 from the Department of Water Resources files located in Sacramento, California.

Appendix H

Standard Operating Procedures

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

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

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the ASTM D2488-06 Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (PG).

Soil Boring and Sampling

Prior to drilling, the first 8 feet of the boring are cleared using an air or water knife and vacuum extraction or hand auger. This minimizes the potential for impacting utilities. Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

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

Sample Analysis

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

Field Screening

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

Water Sampling

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

Grouting

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

Waste Handling and Disposal

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

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

STANDARD FIELD PROCEDURES FOR SOIL VAPOR PROBE INSTALLATION AND SAMPLING

This document describes Conestoga-Rovers & Associates' standard field procedures for soil vapor probe installation and sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil vapor samples are collected and analyzed to assess whether vapor-phase subsurface contaminants pose a threat to human health or the environment.

Shallow Soil Vapor Probe Installation

The shallow soil vapor probe method for soil vapor sampling utilizes a hand auger or drill rig to advance a boring for the installation of a soil vapor sampling probe. Soil vapor probes facilitate the collection of in-situ vapor samples. Once the boring is advanced to the final depth, #2/12 filter pack is poured through a tremie pipe to fill the bottom 6 inches of the boring. A permeable, stainless-steel probe tip is connected to ¼-inch outside diameter Teflon tubing via a push-to-connect fitting. The probe tip is then placed approximately 6 inches from the bottom of the boring and covered by 6 inches of #2/16 filter sand. A 12 inch layer of dry granular bentonite is placed on top of the filter pack. Pre-hydrated granular bentonite is then poured to fill the borehole. The tube is labeled, capped, and placed within a traditional well box finished flush to grade. Soil vapor samples will be collected no sooner than 48 hours after installation of the soil vapor probe to allow adequate time for representative soil vapors to accumulate. Soil vapor sample collection will not be scheduled until after a minimum of three consecutive precipitation-free days and irrigation onsite has ceased.

Purging

At least three purge volumes of vapor are removed from the soil vapor probe prior to sampling. The purge volume is defined as the amount of air within the probe and tubing. Purging is performed using the vacuum of a dedicated Summa canister, a flow regulator set to the same flow rate used for sampling, and vacuum gauges. Immediately after purging, soil vapor samples will be collected using the appropriate size Summa canister with attached flow regulator and sediment filter.

Sampling Soil Vapor Probes

Samples collected using a SUMMA™ canister will have the SUMMA™ canister connected to the sampling tube of each vapor probe. Prior to collecting soil vapor samples, the initial vacuum of the canisters is measured and recorded on the chain-of-custody. The vacuum of the SUMMA™ canister is used to draw the soil vapor through the flow controller until a negative pressure of approximately 5 inches of mercury is observed on the vacuum gauge and recorded on the

chain-of-custody. The flow controllers should be set to 100-200 milliliters per minute. Field duplicates should be collected for every day of sampling and/or for every 10 samples collected.

In accordance with the DTSC guidance document titled *Advisory-Active Soil Gas Investigations*, dated March 2010, leak testing is necessary during sampling. Helium is recommended, although shaving cream is acceptable. Helium is pumped into a shroud that contains the entire sampling apparatus and the soil vapor probe well vault. A helium meter is used to quantify the percentage helium in the shroud during sampling.

Samples collected for TO-17 analysis will be collected using a TO-17 Sorbent Tubes connected to the sampling tube of each vapor probe. A 60 cc syringe will be used to draw the sample into the sorbent tubes. Field duplicates should be collected for each day of sampling and/or for every 10 samples collected.

A leak test will be performed prior to connecting the sampling equipment to the vapor tubing. The test is performed by inserting the sorbent tube into the tube holder on the syringe assembly, turning the valve into the 'off' position, pulling the plunger of the syringe. If the plunger does not move or immediately returns to the starting position, the system is leak tight and is ready for sampling.

Vapor Sample Storage, Handling and Transport

Samples are stored and transported under chain-of-custody to a state-certified analytic laboratory. Samples should never be cooled due to the possibility of condensation within the canister.

Soil Vapor Probe Destruction

The soil vapor probes will be preserved until they are no longer needed for risk evaluation purposes. At that time, they will be destroyed by extracting the tubing, hand augering to remove the sand and bentonite, and backfilling the boring with neat cement. The boring will be patched with asphalt or concrete, as appropriate.