CONESTOGA-ROVERS & ASSOCIATES

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Emeryville, California 94608
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www.CRAworld.com

TRANSMITTAL

DATE: 8/28/2012

REFERENCE NO.: Project No. 311950

PROJECT NAME: Former Chevron Station 95607

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

RECEIVED
10:59 am, Aug 29, 2012
Alameda County
Environmental Health

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

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☐ Other Geotracker and ACEH ftp site

QUANTITY	DESCRIPTION
1	Site Conceptual Model and Work Plan

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

COMMENTS:
Please call Tina Hariu at 510-420-3344 if you have any questions or comments

Copy to: Mr. Eric Hetrick, Chevron (electronic copy)
Mr. Kevin Hickley, Property Owner
Ms. Diane Riggs, Forest Creek Townhomes Association

Completed by: Kiersten Hoey [Please Print] Signed: Kiersten Hoey

Filing: **Correspondence File**

Eric Hetrick
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6491
ehetrick@chevron.com

August 28, 2012

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

Re: Former Chevron Service Station 95607
5269 Crow Canyon Road
Castro Valley, CA
ACEH Case #RO 0350

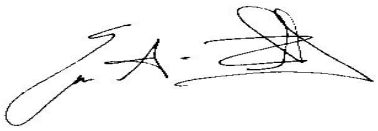
I have reviewed the attached Site Conceptual Model and Work Plan.

I agree with the conclusions and recommendations presented in the referenced report. This 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 who 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,



Eric Hetrick
Project Manager

Attachment: Site Conceptual Model and Work Plan

SITE CONCEPTUAL MODEL AND WORK PLAN

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA
ALAMEDA COUNTY LOP #RO0350

Prepared For:

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

Prepared by:
Conestoga-Rovers & Associates

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AUGUST 28, 2012
REF. NO. 311950 (15)
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SITE CONCEPTUAL MODEL AND WORK PLAN

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA
ALAMEDA COUNTY LOP #RO0350

Kiersten Hoey

Brandon S. Wilken, PG 7564

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Site Conceptual Model and Work Plan (SCM/WP)* on behalf of Chevron Environmental Management Company (Chevron) for the former Chevron Service Station located at 5269 Crow Canyon Road in Castro Valley, California, as requested by the Alameda County Environmental Health (ACEH) in a letter dated June 7, 2012 (Appendix A). The purpose of this SCM/WP is to characterize current subsurface conditions, identify potential data gaps, and recommend work to address the identified data gaps.

2.0 SITE DESCRIPTION

2.1 SITE BACKGROUND

The site is a former Chevron service station, currently occupied by an automotive repair shop, located on the corner of the intersection of Waterford Place and Crow Canyon Road in Castro Valley, California (Figure 1). A used-oil underground storage tank (UST), owned by the current property owner, is located on the west side of the repair shop. The former station facilities consisted of a station building, three gasoline USTs and two dispenser islands under one canopy (Figure 2). Surrounding properties consist of residential properties to the south, west and east, and undeveloped hillside to the north.

2.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Environmental investigations have been ongoing since 1985 when a fuel UST and associated product piping, installed in 1971, were removed after failing a tightness test. Since then, seventeen monitoring wells and one recovery well have been installed, five soil borings have been advanced, sixteen temporary soil vapor probes have been installed, and 81 soil samples have been collected.

In 1985, a groundwater extraction and treatment system (GWET) was installed using recovery well RW-1. Then in 1990 the GWET system was upgraded and an additional pump was installed in monitoring well C-9. The system appears to have operated through May 1995. In 1990, station operations ceased and three 10,000-gallon fiberglass USTs and product piping were removed. After the tanks were removed, an additional 300 cubic yards of petroleum hydrocarbon-bearing soil was over-excavated from the UST pit. In 2003, a two-phase extraction (TPE) pilot test was conducted and deemed a

viable remedial option. A summary of previous environmental investigations and remediation is included as Appendix B.

2.3 SITE GEOLOGY

Regionally, the site lies within the Northern Coast Range geomorphic province at an elevation of approximately 285 feet above mean sea level (ft-amsl). Lithology beneath the site is mapped as Miocene age sandstone, shale, siltstone, conglomerate, and breccia. Soil encountered beneath the site is characterized as interbedded clay, silt, silty sand, and clayey sand to the maximum depth explored of 55 fbg. Bedrock is encountered beneath the site at depths ranging from approximately 30 to 55 fbg. Geologic Cross-Sections A-A' and B-B' illustrate the site geology and are presented on Figures 3 and 4, respectively. Boring logs are presented in Appendix C.

2.4 SITE HYDROGEOLOGY

The site is located in the Castro Valley Groundwater Basin (California Department of Water Resources, Bulletin 118 2004). The San Francisco Bay Regional Water Quality Control Board (RWQCB-SF) Basin Plan considers groundwater in this basin a potential resource for municipal, industrial process, and agricultural water usage.

The nearest surface water bodies are Crow Creek located approximately 380 feet southwest (downgradient) of the site, and Cull Canyon Lake located approximately 2,245 feet northwest (crossgradient) of the site. Depth to groundwater has historically ranged between approximately 0.5 and 34 fbg. Groundwater flow direction is to the west-southwest toward Crow Creek. Well construction details are summarized in Table 1. Historical groundwater data is presented in Appendix D.

3.0 PREFERENTIAL PATHWAY STUDY

CRA conducted a preferential pathway study to characterize potential conduits for offsite groundwater migration downgradient of the site. CRA obtained utility maps from Alameda County Public Works and contracted Norcal Geophysical Consultant, Inc. (Norcal) to perform a comprehensive utility survey. Norcal utilized the electromagnetic line location/metal detection (EMLL/MD) and ground penetrating radar (GPR) methods to investigate the designated survey area.

Telecommunication, electric, and natural gas lines run beneath the eastern sidewalk of Waterford Place and in front of the Townhomes. These two sections are connected by lines that run east-west beneath Waterford Place. Pacific Gas and Electric Company (PG&E) generalizes that depths of electric and natural gas underground facilities are located approximately 24-inches to 36-inches below ground surface. A water line runs down the center of Waterford Place, and is located approximately 5 fbg, and a sanitary sewer trends north-south between C-9 and the Townhomes and is approximately 6 fbg. Historic depths to groundwater in monitoring wells C-4, C-6, C-9, and C-12, located downgradient of the site on the east and west sides of Waterford Place, range from approximately 7 to 29 fbg. Although dissolved hydrocarbon concentrations have historically been detected in all these offsite wells, groundwater has never been shallower than 7 fbg, and the dissolved hydrocarbon plume is shrinking. In fact, hydrocarbons have decreased to below laboratory detection limits in C-9, and no dissolved hydrocarbons have been detected in well C-11, located adjacent to the water and sewer lines beneath Waterford Place, since 1997.

Electric, telecommunication, and natural gas lines (located approximately 2 to 3 fbg) are also located along the northern (upgradient) property boundary, but are located above the shallowest groundwater depth recorded in C-1 and C-8. A storm drain line (approximately 6 fbg) runs from the north edge of the site beneath Crow Canyon Road and connects to the main line located on the north side of Crow Canyon Road. Historically, the shallowest recorded depth to water in source area wells C-1 and C-2, located adjacent to the storm drain connector, is approximately 10 fbg and the storm drain connector is located upgradient of the dissolved plume; therefore unlikely to act as a preferential pathway for hydrocarbon migration.

It is unlikely that underground utilities act as preferential pathways for dissolved hydrocarbon migration the majority of the time considering that groundwater is generally significantly deeper than the base of the utilities. However, it is possible that during infrequent times when groundwater is at its shallowest that the deeper utilities may act as preferential pathways. However, the existing well network adequately monitors the plume in all directions. Underground utilities are illustrated on Figure 2 and the Alameda County Public Works sewer map and the Norcal Geophysical Consultants geophysical report are included in Appendix E.

4.0 SENSITIVE RECEPTOR SURVEY

CRA completed a search for municipal, domestic, industrial, and irrigation wells within a ½-mile radius of the site by contacting Alameda County of Public Works. No water

supply wells were identified in the search area; however, there are existing groundwater wells between ½-mile and 1-mile radius of the site. The nearest surface water bodies are Crow Creek approximately 380 feet southwest (downgradient) of the site, and Cull Canyon Lake approximately 2,245 feet northwest (crossgradient) of the site. Two schools are located within ½-mile of the site. Independent Elementary School is located approximately 1,230 feet southwest (downgradient) of the site and Canyon Middle School is located approximately 1,380 feet northwest (crossgradient) of the site.

The only sensitive receptor identified that could potentially be affected is Crow Creek. Low dissolved hydrocarbon concentrations were historically detected in offsite downgradient well C-15 prior to its destruction in 2008. However, the current rapidly decreasing hydrocarbon concentration trends in well C-9 demonstrate that downgradient extent of the hydrocarbon plume is naturally attenuating and shrinking back toward the source area onsite. Therefore, Crow Creek does not appear to be at risk from the petroleum hydrocarbon plume at the site. A sensitive receptor survey table and map are presented in Appendix F.

5.0 HYDROCARBON DISTRIBUTION AND SOURCE

The primary constituents of concern (COCs) are total petroleum hydrocarbons as gasoline (TPHg) and benzene. Other COCs are toluene, ethylbenzene, and total xylenes. Methyl tertiary butyl ether (MTBE) is no longer a constituent of concern.

5.1 SOIL

During the gasoline UST removal, approximately 300 cubic yards of hydrocarbon bearing soil was over-excavated. Residual TPHg in soil are primarily within saturated soil between 20 and 45 fbg in the vicinity of the former USTs, with the exception of 1,300 milligrams per kilograms (mg/kg) detected in SB-2 at 10.5 fbg. As illustrated on Figures 5 and 6, TPHg and benzene in saturated soil extend downgradient of the site to SV-7, but are delineated below the applicable environmental screening levels (ESLs)[1] in all directions, including downgradient before Crow Creek by C-15, SV-6 and SV-8. The highest residual hydrocarbon concentrations are 4,600 mg/kg TPHg in SB-3 at 35 fbg and 14 mg/kg benzene in SB-5 at 35 fbg. These depths are within the groundwater bearing zone, adjacent to the former UST pit. The vertical extent of hydrocarbons in soil

[1] California Regional Water Quality Control Board – San Francisco Bay Region, Screening forEnvironmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final- November 2007 (Revised May 2008)

is defined by onsite boring SB-4, located in the source area. No hydrocarbons were detected at the 47.5 fbg, the maximum depth explored at the site.

Lateral and vertical distribution of hydrocarbons in soil at the site has been adequately delineated through the collection of 81 soil samples to a maximum depth of 47.5 fbg. Cumulative soil analytical data is presented in Table 2. The vertical distribution of hydrocarbons is illustrated on Geologic Cross-Sections A-A' and B-B' (Figures 3 and 4), and the lateral distribution of TPHg and benzene are presented on Figures 5 and 6. Gettler-Ryan's soil sampling maps during the 1990 UST removal and excavation are included in Appendix G.

5.2 GROUNDWATER

Groundwater has been monitored since 1985 by 18 wells. The 2012 semiannual monitoring results are summarized below in Table A. Hydrocarbon concentrations as gasoline and benzene are presented on Figures 7 and 8, respectively.

TABLE A: HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2012

Well ID/ESL Table	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*
		Micrograms per Liter (µg/L)					
F-1a: Potential Drinking Water		***100***	***1***	***40***	***30***	***20***	***5***
F-1a: Aquatic Habitat Goal		***210***	***46***	***130***	***43***	***100***	***8,000***
E-1a: Potential Vapor Intrusion		***Use Soil Gas***	***540***	***380,000***	***170,000***	***160,000***	***24,000***
C-1	1/12/2012	4,700	350	41	33	36	<0.5
	7/2/2012	Sampled Annually					
C-2	1/12/2012	120	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
C-3	1/12/2012	46,000	9,000	390	3,100	3,100	<3
	7/2/2012	44,000	9,100	320	2,800	1,800	<3
C-5	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
C-6	1/12/2012	35,000	15,000	83	690	190	<25
	7/2/2012	24,000	9,400	82	780	280	15
C-7	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
C-8	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
C-9	1/12/2012	180	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
C-11	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					

TABLE A: HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2012							
Well ID/ESL Table	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*
C-12	1/12/2012	890	26	<0.5	1	2	<0.5
	7/2/2012	1,200	10	<0.5	3	0.7	<0.5
C-13	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
C-16	1/12/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/2/2012	Sampled Annually					
RW-1	1/12/2012	Not Sampled					
	7/2/2012	17,000	6,800	58	690	220	12

Petroleum hydrocarbon concentrations in groundwater are centered on monitoring wells C-3, and C-6, located adjacent to, and downgradient of the former USTs. The dissolved plume historically extended downgradient past C-9 to C-15, but overtime has been retracting back toward the source area. Dissolved concentrations in well C-9 have decreased four orders of magnitude. During the July 2012 sampling event, no hydrocarbons were detected. The dissolved hydrocarbon plume also extends northwest (crossgradient) to well C-12, where dissolved TPHg concentrations have historically fluctuated around 1,000 micrograms per liter (µg/L) and benzene concentrations have recently been fluctuated between 10 and 100 µg/L. The dissolved TPHg and benzene plumes are defined by wells C-2, C-5, C-7, C-8, C-9, C-11, C-13, C-14 and C-16 and destroyed wells C-10A, C-10B and C-15 (Figures 7 and 8). Current and historic groundwater monitoring and sampling data are presented in Appendix D.

Risk to Crow Creek

To monitor groundwater conditions downgradient of the site near Crow Creek, wells C-10A, C-10B, C-15, and C-16 were installed. To assess the risk to the creek, dissolved hydrocarbons detected in these wells are compared to the aquatic ESLs (ESL Table F-4a) of 210 µg/L TPHg, 46 µg/L benzene, 130 µg/L toluene, 43 µg/L ethylbenzene, and 100 µg/L xylenes. No concentrations detected in former wells C-10a and C-10B exceeded the aquatic ESLs. With the exception of an unidentified TPHg concentration of 724 µg/L, dissolved hydrocarbons in well C-16 were generally below the laboratory detection limits. Well C-15 is located approximately 45 feet upgradient of Crow Creek. No toluene, ethylbenzene, or xylenes concentrations and only one benzene concentration detected in C-15 exceeded the aquatic ESLs. TPHg concentrations in C-15 ranged between <50 and 1,000 µg/L, and 520 µg/L was detected in 2008 before it was destroyed. During the same sampling event, monitoring well C-9, located directly upgradient of C-15, contained 4,500 µg/L TPHg. As previously stated, concentrations in C-9 have since decreased two orders of magnitude to below laboratory reporting limits. The decreasing concentrations in C-9 indicate the dissolved hydrocarbon plume is

shrinking back toward the source area and it can be assumed that the dissolved hydrocarbon concentrations in well C-15 have also decreased to near or below laboratory detection limits. Based on the above, it is unlikely dissolved phase hydrocarbons originating at the site are currently or will impact Crow Creek in the future.

Dissolved Hydrocarbon Trends and Projections

CRA uses the guidance provided within the United States Environmental Protection Agency (EPA) document *Calculation and Use of First-Order Rate Constants for Monitored Natural Attenuation Studies* (November 2002) to estimate the time for groundwater concentrations to reach water quality objectives (WQOs). CRA also uses the EPA document *On-line Tools for Assessing Petroleum Releases* (September 2004) to assess the proper methodology of determining where to begin a trend analysis. A receptor is located some distance from the source, and no impact to the receptor is seen when the release first occurs. The analytes take time to travel to the receptor. The first data points that show an analyte detection is called the first arrival time. The first arrival time varies for each receptor based upon distance from the receptor and the transport rates through the heterogeneous medium.

As the analyte plume expands and stabilizes, the analyte concentration reaches the maximum concentration. If the source of the release is finite (e.g., a single release from an underground storage tank), the concentration will eventually decrease from the maximum, to below the concentration of concern. This period is called the duration.

CRA evaluates groundwater monitoring data from each well (the receptor) and creates a degradation trend analysis for site COCs from the maximum detection through the latest sampling date. The starting point can vary from the maximum detection if the transport mechanisms are not sufficiently linear. For example, groundwater monitoring data may show that the maximum concentration occurred at some point in the past and that degradation seemed to be occurring. However, due to the heterogeneous nature of the subsurface and seasonal groundwater level fluctuations, the duration does not demonstrate a steady degradation behavior. The concentrations of the analyte may increase one or more times before showing consistent attenuation towards the concentration objective.

CRA calculated estimated times for dissolved TPHg and benzene concentrations to meet the RWQCB ESL for drinking water at wells C-1, C-3, C-6, C-9, and C-12. The drinking water ESLs for TPHg and benzene are 100 and 1 µg/L, respectively. CRA used the

following first order exponential decay rate calculation[2] to estimate the time to meet the applicable ESL:

$$y = be^{(ax)}$$

Where "a" is a decay constant, "b" is a concentration at time (x), y is concentration (WQG), and "x" is time.

The results of the calculations are described below. A summary of historical maximum concentrations and current concentrations for wells C-1, C-3, C-6, C-9, and C-12 and projections to meet the ESLs are presented in Table B. The trend analysis graphs for TPHg and benzene in wells C-1, C-3, C-6, C-9, and C-12 are presented in Figures A, B, C, D, and E below. Trend graphs and degradation calculations are presented as Appendix H.

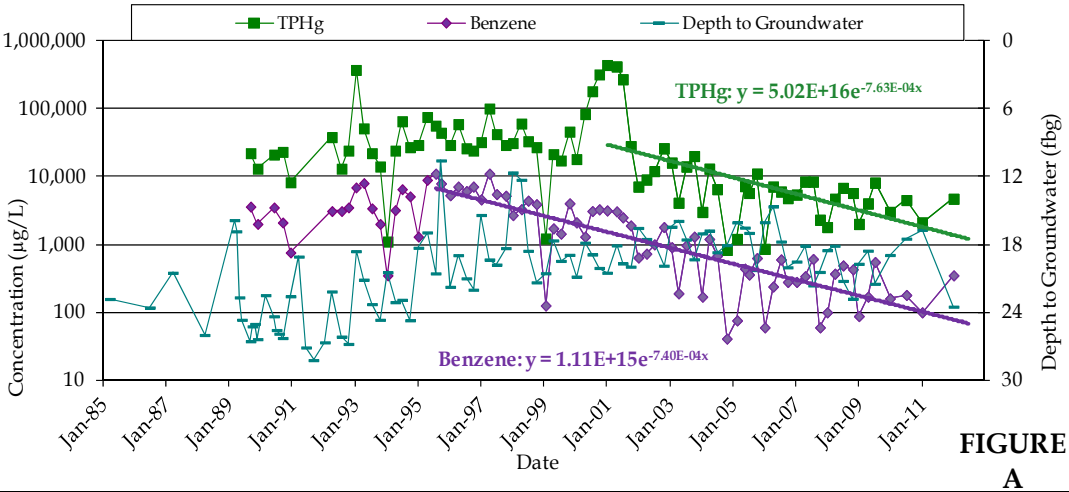


FIGURE A

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-1: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

[2] EPA-Groundwater Issue; Calculation and Use of First-Order Rate Constants for Monitored Natural Attenuation Studies; Charles J. Newell, et al., 2002.

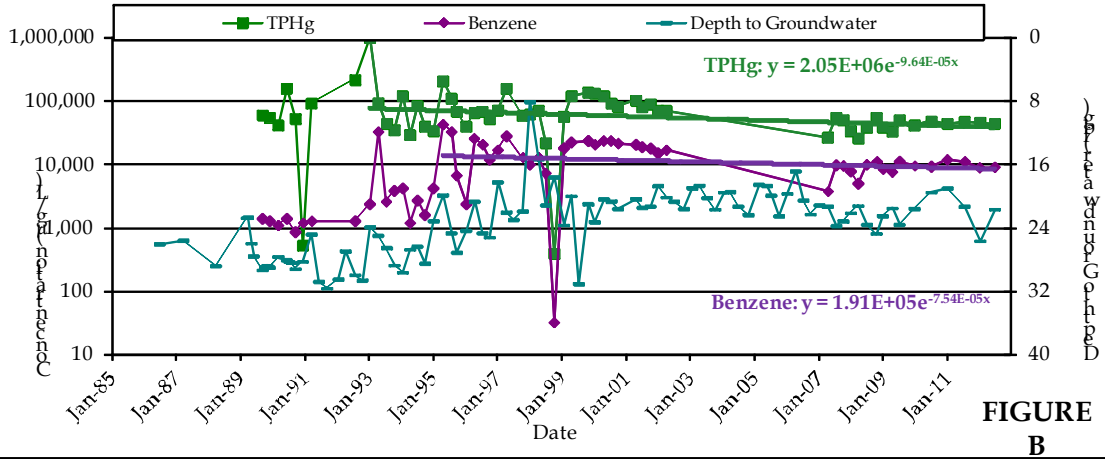


FIGURE B

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-3: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

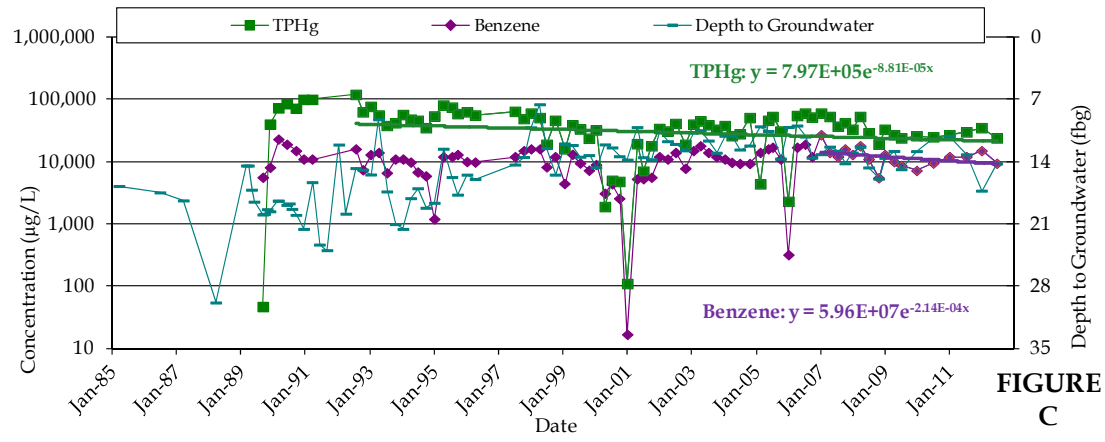


FIGURE C

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-6: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

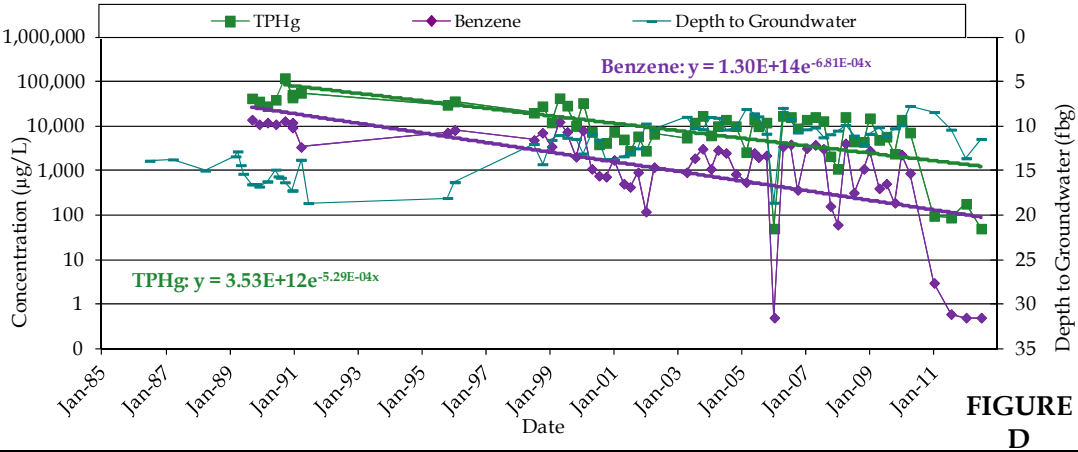


FIGURE D

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-9: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

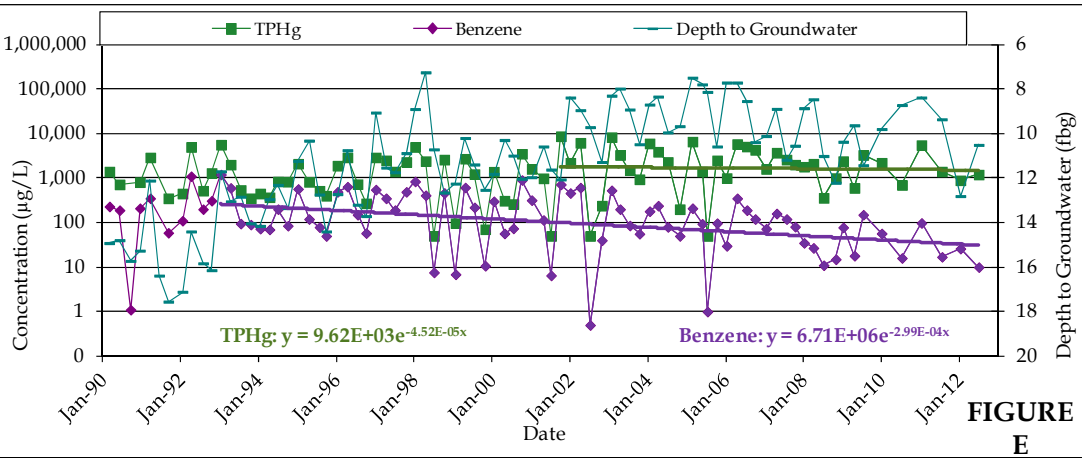


FIGURE E

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-12: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

TABLE B: SUMMARY OF DEGRADATION RATE CALCULATIONS

Well	*Analyte*	*Maximum Concentration (µg/L)*	*Most Current Concentration (µg/L)*	*ESL*	*Approximate Date to Reach ESL*	*Approximate Years to reach ESL*
C-1	TPHg	437,000	4,700	100	June 2021	9
	Benzene	11,000	350	1	Feb 2028	16
C-3	TPHg	1,000,000	44,000	100	Dec 2181	169
	Benzene	43,000	9,100	1	May 2341	329
C-6	TPHg	120,000	24,000	100	Jan 2179	167
	Benzene	27,000	9,400	1	July 2129	117

TABLE B: SUMMARY OF DEGRADATION RATE CALCULATIONS						
Well	*Analyte*	*Maximum Concentration (µg/L)*	*Most Current Concentration (µg/L)*	*ESL*	*Approximate Date to Reach ESL*	*Approximate Years to reach ESL*
C-9	TPHg	120,000	<50	100	July 2025	13
	Benzene	14,000	<0.5	1	Aug 2030	18
C-12	TPHg	8,700	1,200	100	Sept 2176	164
	Benzene	1,200	10	1	Dec 2043	31

Trend analysis calculations predict that TPHg and benzene concentrations in upgradient and downgradient wells C-1 and C-9 will reach the drinking water ESLs within a maximum of 18 years. TPHg and benzene concentrations in source area wells C-3 and C-6 are expected to reach ESLs in over 100 years. TPHg and benzene concentrations in crossgradient well C-12 are expected to reach the ESLs within 164 years and 31 years, respectively.

5.3 SOIL VAPOR

In 1989, a soil vapor assessment was completed onsite; however, no report was located. A total of twenty-one soil vapor samples were collected around the downgradient Townhomes between 1996 and 1998 to evaluate the risk of soil vapor intrusion to the Townhomes, and if the sewer line was a vapor pathway to the Townhomes. Based on data from vapor probes SV-1 through SV-8, elevated concentrations were detected at 25 fbg (saturated soil), but concentrations collected between 3 and 11 fbg, with the exception of benzene concentrations detected in SV-6 and SV-8, were below laboratory detection limit and/or ESLs (ESL Tables E-2 and E-4), indicating there is no significant risk of vapor intrusion to the Townhomes. Based on concentrations detected in vapor probes SV-9 through SV-16, advanced within the sewer line trench, Weiss determined the sewer line was not acting as a preferential pathway for vapor migration to the Townhomes. Cumulative soil vapor analytical data is presented in Table 3. In 1996, a grab-groundwater sample was collected from temporary vapor probe SV-1, located adjacent to the Townhomes. Concentrations were well below the ESLs for potential vapor intrusion concerns (ESL Table E-1). Grab-groundwater sample data is presented in Table 4.

5.4 LIGHT NON-AQUEOUS PHASE LIQUID

Light non-aqueous phase liquid (LNAPL) was detected in onsite well C-3 between 1991 and 2007 at a maximum thickness of 0.7 foot. A total of 28.95 gallons of LNAPL and water was bailed from the well between 2002 and 2007. No LNAPL has been detected in any well since April 2007.

6.0 HYDROCARBON SOURCE AND REMEDIATION

Based on the distribution of residual TPHg and benzene in soil and groundwater, it appears the source of hydrocarbons are the former USTs removed in 1985 and 1990. In 1985, a fuel UST and associated product piping were removed after failing a tightness test. Chevron inventory discrepancies from September 1984 to February 1985 indicated an estimated a loss of 670 gallons of gasoline. The tank was replaced with three 10,000-gallon USTs and two fuel dispensing islands. After the replacement of the fuel UST a remediation well (RW-1) was installed to house a GWET system which utilized a ½ horsepower water table depression pump to induce LNAPL to flow to RW-1. Due to the low permeable soil, the system had a low extraction rate of 0.2 gallons per minute. The system appeared to run in this configuration through 1990; however, no data is available for the system operation from 1988 to 1990. In March 1990, the GWET system was upgraded and pumps were installed in RW-1 and C-9, and water was treated using an oil/water separator and air stripper. The system appeared to run in this configuration through May 1995.

In October 1990, the three 10,000-gallon USTs, associated piping, and two dispenser islands were removed. An additional 300 cubic yards of hydrocarbon-bearing soil was over-excavated from the UST pit. Gettler-Ryan soil sampling maps are included as Appendix G. In October 2003, Cambria Environmental Technology, Inc. (Cambria) conducted a TPE pilot test. The pilot test consisted of a 400 cubic foot per minute thermal/catalytic oxidizer operating in thermal mode. Cambria concluded the TPE could be a viable remedial option. In their January 8, 2007 *Remedial Action Plan*, Cambria proposed dual-phase extraction (DPE) as the most viable and cost-effective method to remediate the site. Since 2007, Chevron and CRA have been working with the property owner to secure a location for the DPE system. Several remedial implementation updates have been submitted to ACEH, including most recently, CRA's July 16, 2012 *Notification of Remedial Implementation Status*. Chevron and CRA intend to install and implement DPE in early 2013.

7.0 DATA GAPS

Groundwater Delineation

The ACEH has requested additional lateral and vertical delineation of dissolved hydrocarbons between offsite wells C-9 and C-12. Therefore, CRA proposes installing one monitoring well between wells C-9 and C-12 to collect groundwater data (Figure 2). No other data gaps were identified.

8.0 WORK PLAN FOR FURTHER GROUNDWATER DELINEATION

To fulfill the data gaps and recommendations made above, CRA proposes to conduct the following activities:

Utility Location

CRA will mark the site for Underground Service Alert (USA) clearance. USA and a licensed geophysicist will be contacted a minimum of 48 hours prior to field activities to mark and identify locations of utilities near the proposed well location.

Utility Clearance

Per Chevron and CRA safety requirements, the proposed well location will be cleared to 8 fbg using a hand auger to detect any unknown utilities prior to drilling.

Site Health and Safety Plan

CRA will prepare a site health and safety plan to provide safety guidelines to all site workers and visitors. The plan will be kept onsite at all times and followed by all site workers and visitors each day of operation.

Permits

CRA will obtain a well installation permit from the Alameda County Public Works Agency (ACPWA) prior to beginning field operations. A minimum of 48 hours of notice will be given to ACEH and ACPWA prior to beginning activities.

Well Installation

After clearing to 8 fbg, the well will be advanced using 8-inch diameter hollow-stem augers to a maximum depth of approximately 20 fbg. The wells will be constructed using 2-inch diameter Schedule 40 PVC casing with a 0.010-inch slotted screen from approximately 5 to 20 fbg. The proposed screen interval is based on the large range of depth to water (DTW) measurements observed in wells C-9 and C-12. Historically DTW measurements have ranged between 7.74 and 18.64 in C-9 and 7.25 and 17.55 in C-12.

The filter pack will consists of #2/12 sand from the bottom of the boring to approximately 2 feet above the screened interval. The well annulus will have a 2-foot bentonite seal above the screen and sand pack, with the remainder backfilled with Portland Type I/II cement to approximately 1 foot below grade. A well box equipped with a traffic rated lid will be installed flush with grade. Well construction may be altered based upon field observations. Well locations and top-of-casing elevation will be surveyed by a licensed land surveyor. CRA's standard operating procedures for monitoring well installation are included as Appendix I.

Well Development and Sampling

The well will be developed using agitation and pumping. Gettler-Ryan, Inc. of Dublin, California will develop and sample the wells no sooner than 72 hours after installation.

Soil Disposal

Soil cuttings and decontamination water will be temporarily stored onsite in properly labeled 55-gallon drums pending soil profiling results. The waste will transported and disposed of at appropriate Chevron and State-approved disposal facilities.

Chemical Analysis

Groundwater, soil, and disposal samples will be analyzed for the following constituents:

- TPHg by EPA Method 8015B modified
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B
- Methyl-tertiary butyl ether (MTBE) by EPA Method 8260B
- Total lead by EPA Method 6010 (waste composite soil samples only)

Reporting

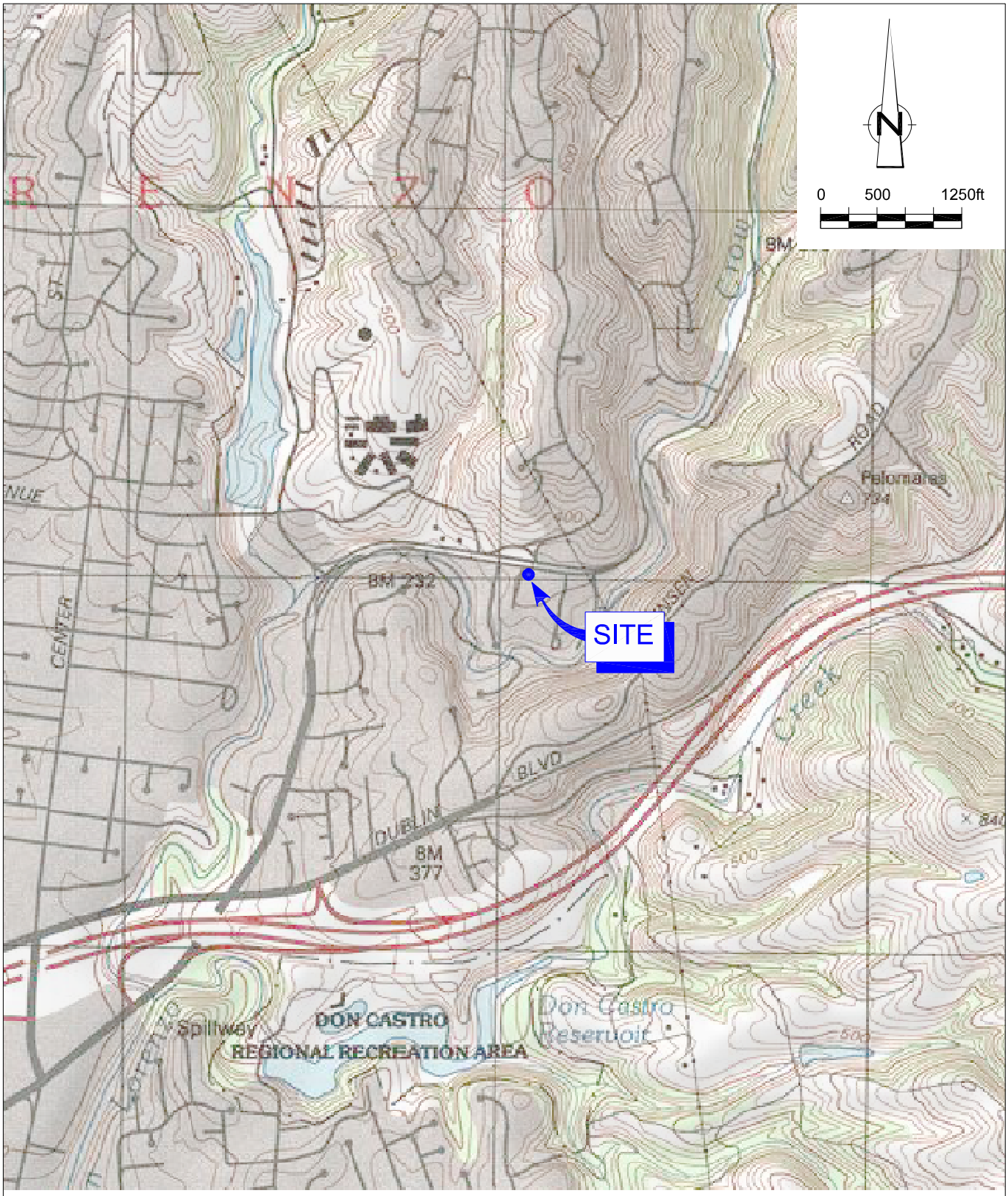
Upon completion of field activities and review of the analytical results, we will prepare an investigation report that at a minimum will contain:

- Geophysical survey findings
- Descriptions of drilling and sampling methods
- Well construction log
- Tabulated groundwater analytical results
- A figure illustrating the boring location
- Analytical reports and chain-of-custody forms
- Soil disposal methods

- Conclusions and recommendations

CRA will conduct this work following approval from the ACEH and approval from the property owner. After approval, CRA will obtain the necessary permits, meet with utility service providers, and schedule a drilling subcontractor. CRA will submit the investigation report approximately eight weeks after completion of field activities.

FIGURES

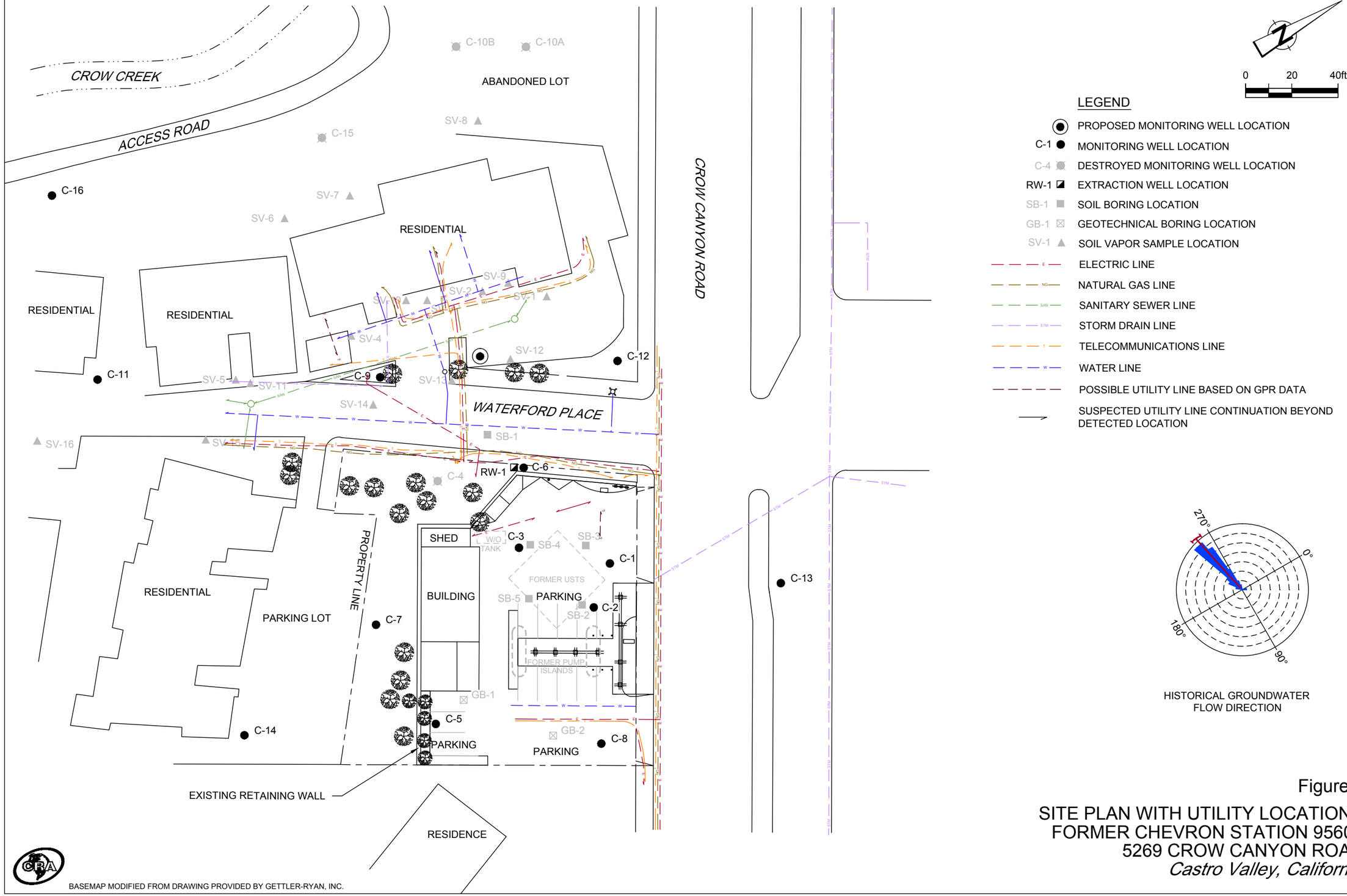


SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

311950-95(015)GN-EM001 JUL 26/2012

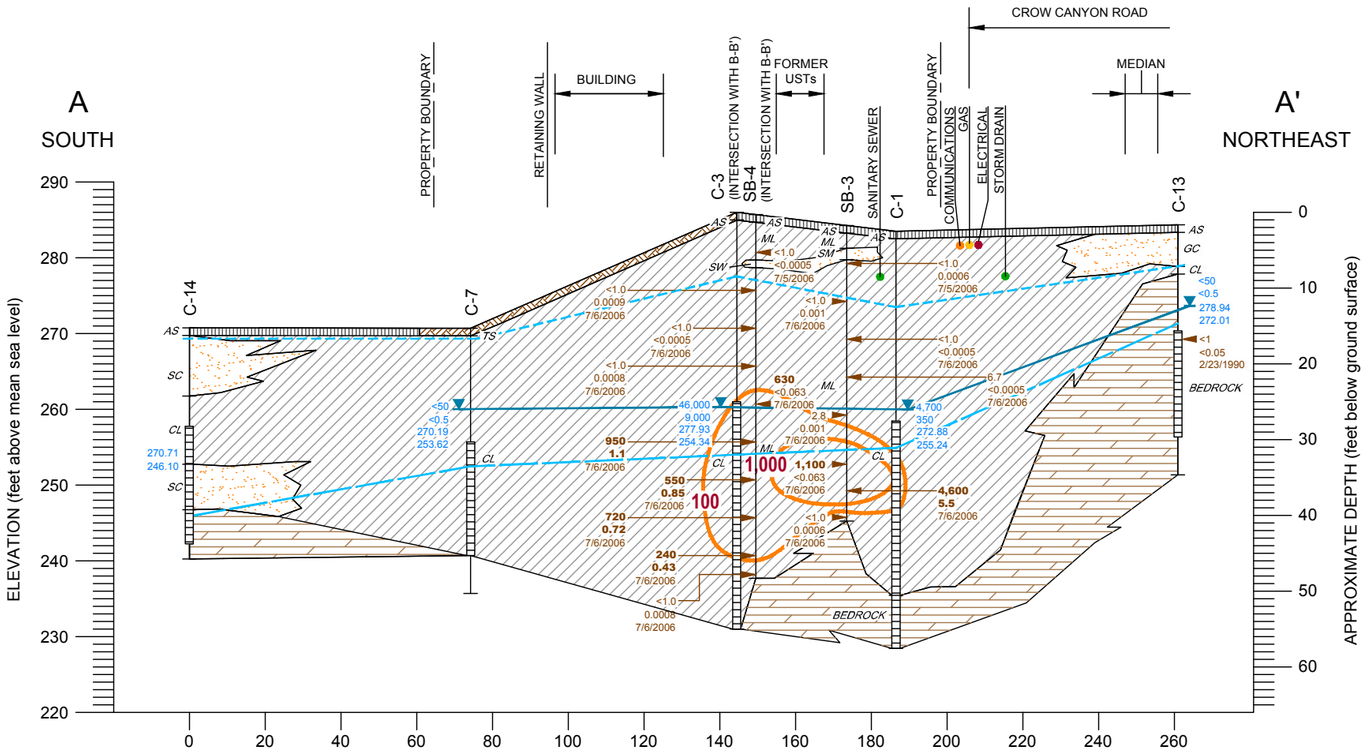


BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

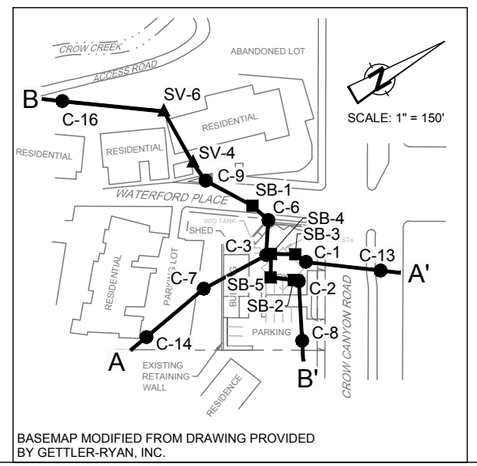
311950-2012(015)GN-EM002 AUG 20/2012

Figure 2

SITE PLAN WITH UTILITY LOCATIONS
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California



SCALE: HORZ. 1" = 40'
VERT. 1" = 20'



BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

LEGEND

- C-3 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPHg / BENZENE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHg / BENZENE / HIGH ELEVATION / LOW ELEVATION — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L) - 01/12/12
- HISTORIC HIGH GROUNDWATER ELEVATION
- HISTORIC LOW GROUNDWATER ELEVATION

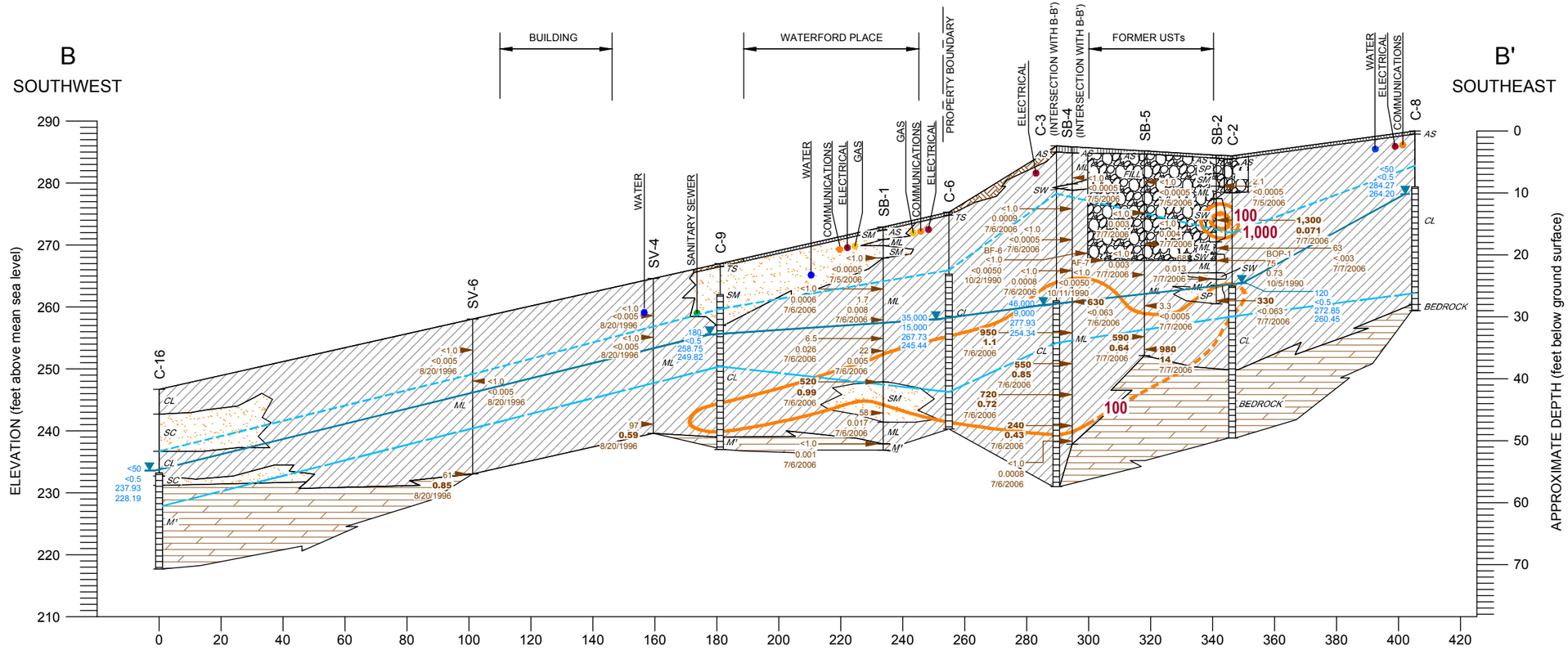
- *TS* - TOPSOIL
- *AS* - ASPHALT
- *SC* - CLAYEY SANDS, SAND-CLAY MIXTURES
- *SW* - WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES
- *SM* - SILTY SANDS, SAND-SILT MIXTURES
- *GC* - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- *CL* - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- *ML* - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS,CLAYEY SILTS WITH SLIGHT PLASTICITY
- *BEDROCK*
- *M'* - MIOCENE AGE SANDSTONE, SHALE, SILTSTONE, CONGLOMERATE AND BRECCIA; MODERATELY TO WELL CONSOLIDATED

- 100 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN SOIL CONCENTRATION CONTOUR DASHED WHERE INFERRED
- ' - GENERALIZED ROCK TYPES FROM CALIFORNIA GEOLOGICAL SURVEY GEOLOGIC MAP OF CALIFORNIA 2010
- HISTORICAL HIGH GROUNDWATER
- HISTORICAL LOW GROUNDWATER

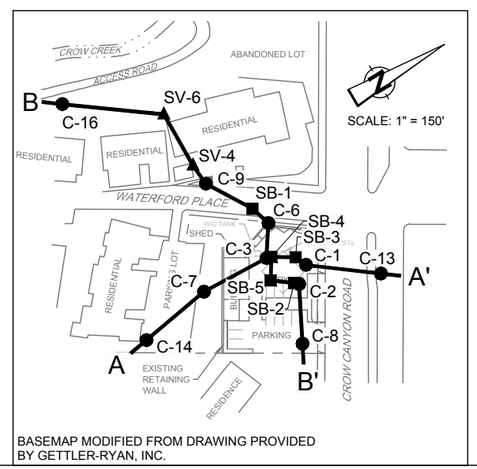
Figure 3

GEOLOGIC CROSS SECTION A-A'
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

311950-2012(015)GN-EM003 AUG 21/2012



SCALE: HORZ. 1" = 40'
VERT. 1" = 20'



BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

LEGEND

- C-16 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPHg / BENZENE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHg / BENZENE / 1/12/12 / HIGH ELEVATION / LOW ELEVATION — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L) (01/12/12)
- HISTORIC HIGH GROUNDWATER ELEVATION
- HISTORIC LOW GROUNDWATER ELEVATION

- *TS* - TOPSOIL
- *AS* - ASPHALT
- *FILL*
- *SC* - CLAYEY SANDS, SAND-CLAY MIXTURES
- *SW* - WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES
- *SM* - SILTY SANDS, SAND-SILT MIXTURES
- *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
- *BEDROCK*
- *M'* - MIOCENE AGE SANDSTONE, SHALE, SILTSTONE, CONGLOMERATE AND BRECCIA; MODERATELY TO WELL CONSOLIDATED

- 100 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN SOIL CONCENTRATION CONTOUR DASHED WHERE INFERRED
- HISTORICAL HIGH GROUNDWATER
- HISTORICAL LOW GROUNDWATER
- ' - GENERALIZED ROCK TYPES FROM CALIFORNIA GEOLOGICAL SURVEY GEOLOGIC MAP OF CALIFORNIA 2010

Figure 4

GEOLOGIC CROSS SECTION B-B'
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

311950-2012(015)GN-EM003 AUG 21/2012

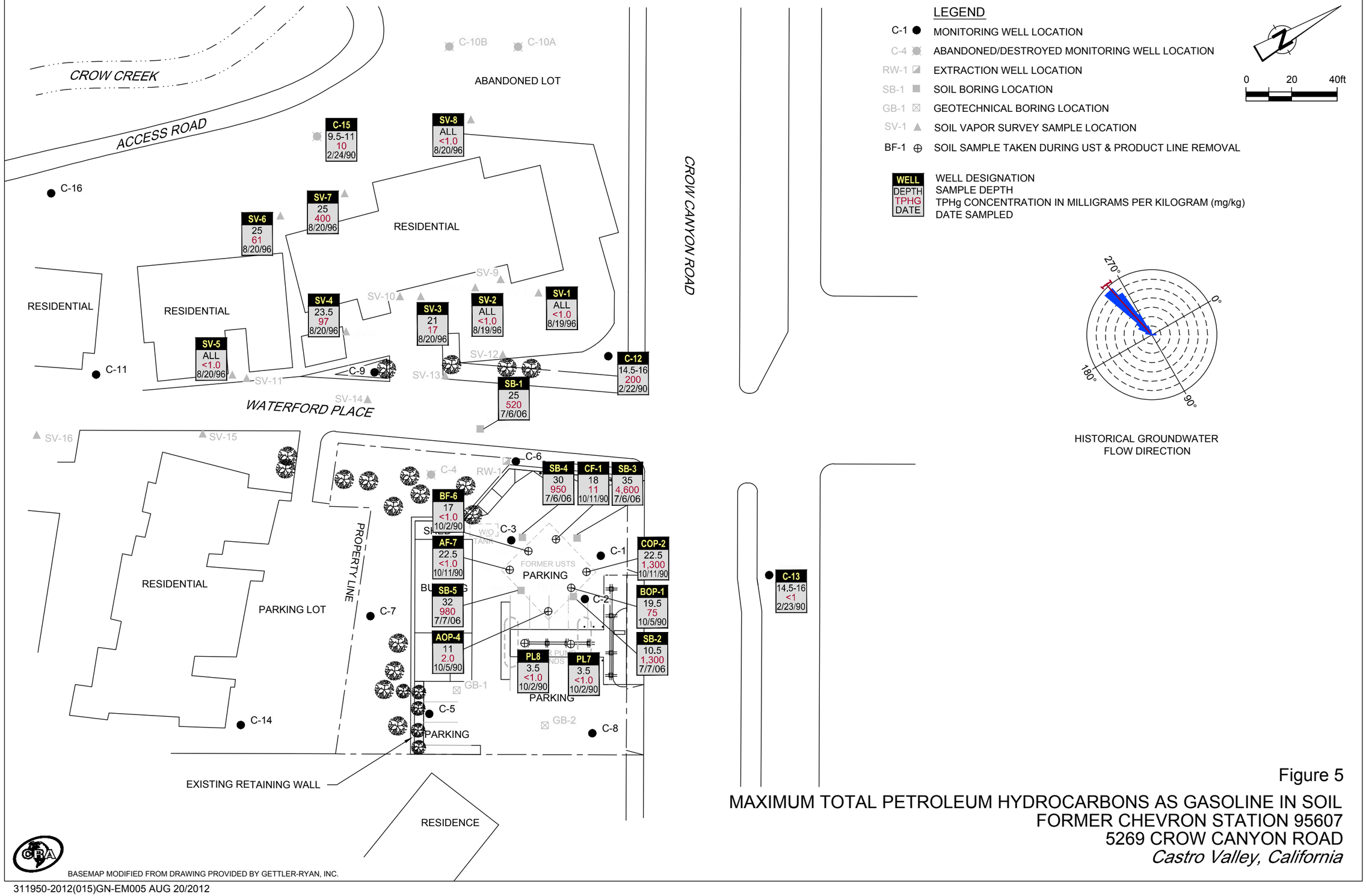
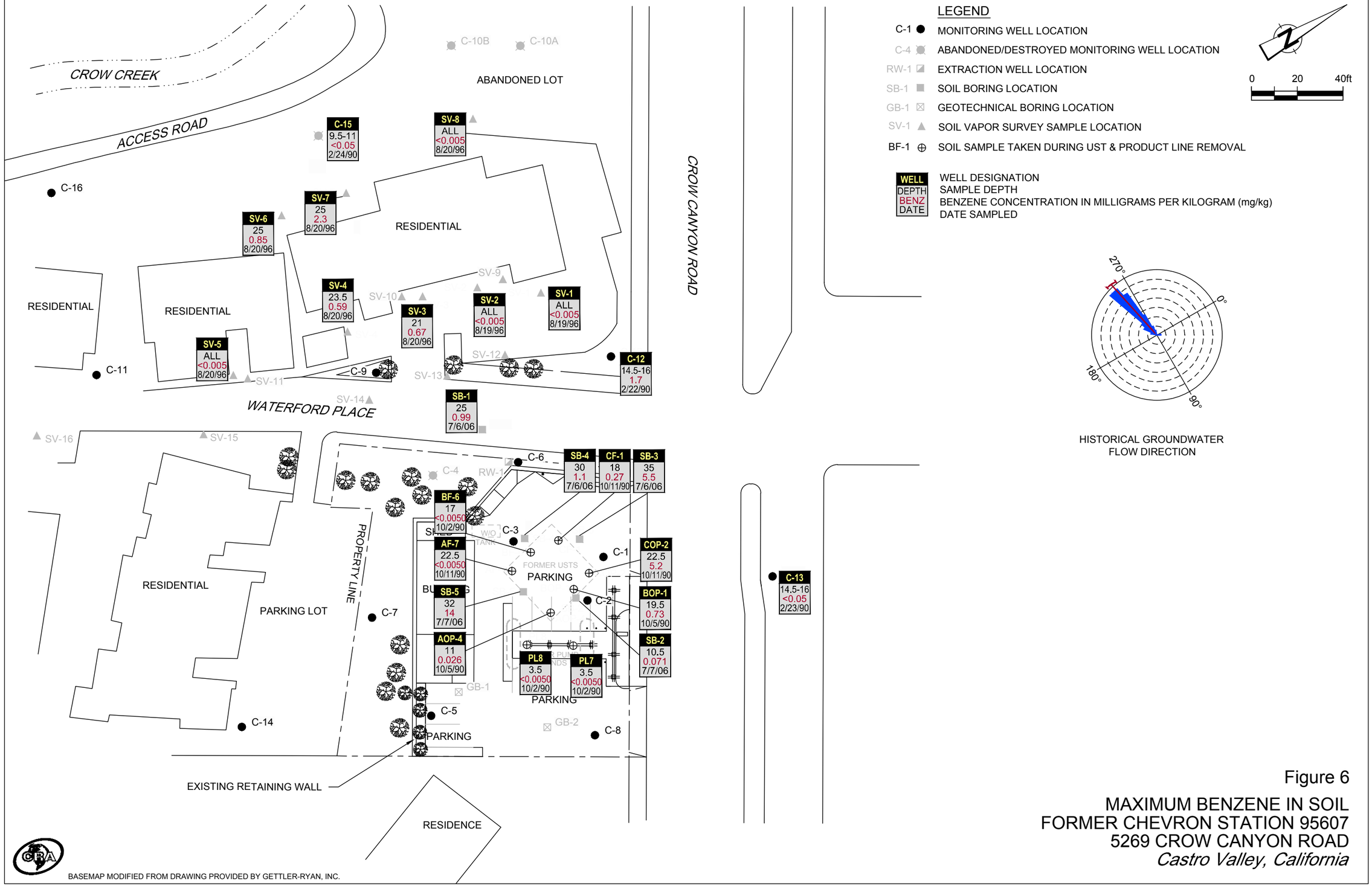


Figure 5

MAXIMUM TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN SOIL
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

311950-2012(015)GN-EM005 AUG 20/2012

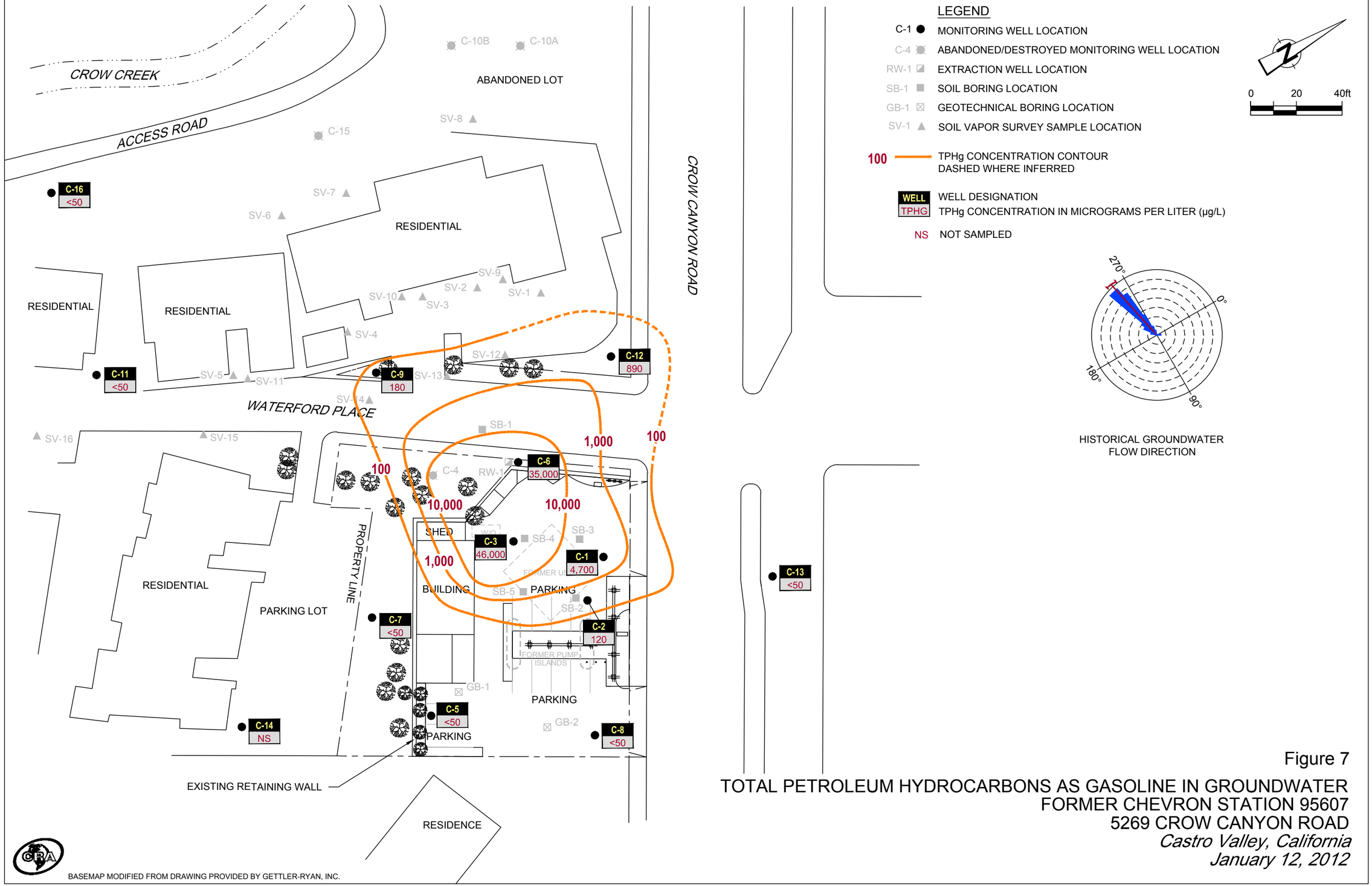


BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

311950-2012(015)GN-EM006 AUG 20/2012

Figure 6

MAXIMUM BENZENE IN SOIL
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

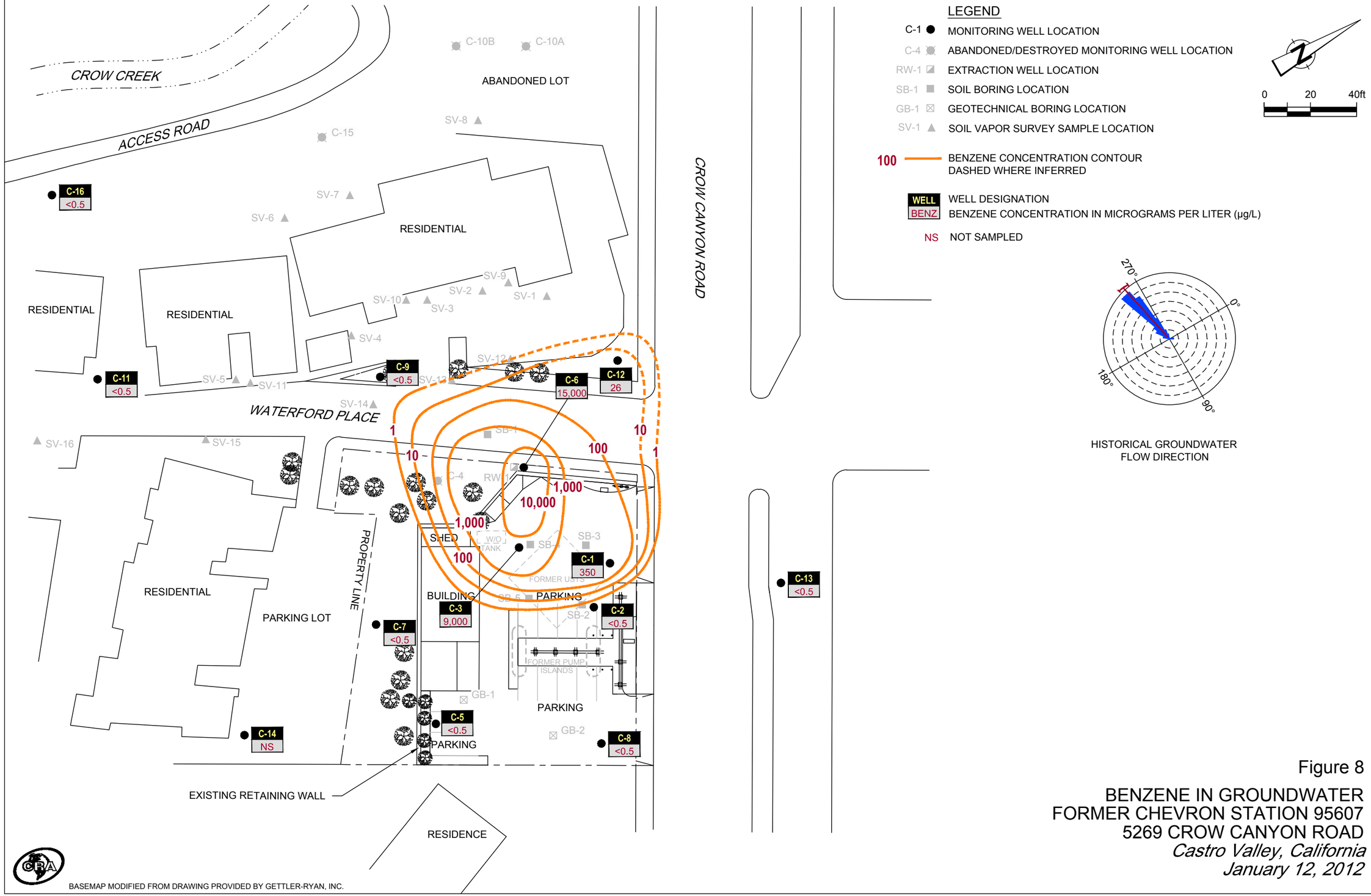


BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

311950-2012(015)GN-EM007 AUG 20/2012

Figure 7

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN GROUNDWATER
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California
January 12, 2012



BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER-RYAN, INC.

311950-2012(015)GN-EM008 AUG 20/2012

Figure 8

BENZENE IN GROUNDWATER
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California
January 12, 2012

TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY , CALIFORNIA

Well ID	Date Installed	TOC	Total Depth (fbg)	Casing Diameter (inches)	Screen Interval (fbg)	Status
C-1[1]	3/5/1985	283.46	55	4	25-55	*Active*
C-2[1]	3/6/1985	284.37	46	4	20-46	*Active*
C-3	3/6/1985	285.98	55	4	25-55	*Active*
C-4	3/9/1985	--	35	4	10-35	*Destroyed*
C-5[1]	3/9/1985	287.95	45	4	15-45	*Active*
C-6	3/14/1985	275.28	35	4	10-35	*Active*
C-7[1]	3/21/1985	270.70	30	2	15-30	*Active*
C-8[1]	3/21/1985	288.40	31	2	9-29	*Active*
C-9	6/24/1985	--	30	4	5-30	*Active*
C-10A	2/22/1990	--	21	3	12-21	*Destroyed*
C-10B	2/22/1990	--	32	3	21-32	*Destroyed*
C-11[1]	2/22/1990	265.30	35	3	14-34	*Active*
C-12	2/22/1990	269.66	34.5	3	9.5-30.5	*Active*
C-13	2/23/1990	284.32	33	3	14-28.5	*Active*
C-14[2]	2/23/1990	270.74	30.5	3	13-28.5	*Active*
C-15	2/24/1990	--	21	3	7.5-17.5	*Destroyed*
C-16[1]	2/24/1990	246.69	29	3	13.5-29	*Active*
RW-1	5/31/1985	274.52	36	10	10-35	*Active*

Notes:
fbg = Feet below grade.
TOC = Top of casing elevation (feet above mean sea level).
-- = Not available / not applicable.
Footnotes:
1 = Sampled annually.
2 = Removed from monitoring/sampling schedule.

TABLE 2

CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Depth	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Notes
		fbg	Concentrations in mg/kg									
ESL												
Table G	*Soil Leaching, Drinking Water Resource*		*NE*	*83*	*83*	*0.044*	*2.9*	*3.3*	*2.3*	*0.023*	*NE*	
Table K-1	*Direct Exposure: Residential*		*370*	*100*	*100*	*0.12*	*63*	*2.3*	*31*	*30*	*260*	
Table K-2	*Direct Exposure: Commercial-Industrial*		*3,700*	*450*	*450*	*0.27*	*210*	*5.0*	*100*	*65*	*750*	
Table K-3	*Direct Exposure: Construction-Trench Worker*		*12,400*	*4,200*	*4,200*	*12*	*650*	*210*	*420*	*2,800*	*750*	
Monitoring Wells												
C-12	2/22/1990	14.5-16	--	--	**200**	**1.7**	**4.7**	**3.4**	**18**	--	--	
C-13	2/23/1990	14.5-16	--	--	<1	<0.05	<0.05	<0.05	<0.05	--	--	
C-15	2/24/1990	9.5-11	--	--	10	<0.05	0.10	<0.05	<0.05	--	--	
UST Pit												
~~AF (#2)~~	~~10/2/1990~~	~~17~~	~~<30~~	~~<1.0~~	~~2.8~~	~~0.37~~	~~<0.0050~~	~~0.010~~	~~0.17~~	~~--~~	~~<0.050~~	Excavated on 10/11/90
AF (#7)	10/11/1990	22.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
~~Aop (#1)~~	~~10/2/1990~~	~~18~~	~~<30~~	~~<1.0~~	~~<1.0~~	~~0.020~~	~~0.023~~	~~0.0078~~	~~0.019~~	~~--~~	~~<0.050~~	Excavated on 10/5/90
Aop (#4)	10/5/1990	11	--	--	2.0	0.026	0.053	0.068	0.33	--	--	
BF (#6)	10/2/1990	17	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
~~Bop (#3)~~	~~10/2/1990~~	~~16~~	--	--	~~440~~	~~3.9~~	~~2.0~~	~~11~~	~~42~~	~~--~~	~~--~~	Excavated on 10/5/90
Bop (#1)	10/5/1990	19.5	--	--	75	**0.73**	0.58	2.6	12	--	--	
~~CF (#5)~~	~~10/2/1990~~	~~15~~	--	--	~~<1.0~~	~~<0.0050~~	~~<0.0050~~	~~<0.0050~~	~~<0.0050~~	~~--~~	~~--~~	Excavated on 10/11/90
CF (#1)	10/11/1990	18	--	--	11	**0.27**	0.074	0.27	1.1	--	--	
~~Cop (#4)~~	~~10/2/1990~~	~~16~~	--	--	~~2.2~~	~~0.20~~	~~0.0058~~	~~0.017~~	~~0.042~~	~~--~~	~~--~~	Excavated on 10/5/90
~~Cop (#2)~~	~~10/5/1990~~	~~20~~	--	--	~~240~~	~~1.5~~	~~9.5~~	~~7.0~~	~~34~~	~~--~~	~~--~~	Excavated on 10/11/90
~~Cop (#3)~~	~~10/5/1990~~	~~15~~	--	--	~~55~~	~~0.30~~	~~0.80~~	~~1.5~~	~~8.0~~	~~--~~	~~--~~	Excavated on 10/11/90
Cop (#2)	10/11/1990	22.5	--	--	**1,300**	**5.2**	**37**	**28**	**140**	--	--	
Product Lines												
PL (#7)	10/2/1990	3.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
PL (#8)	10/2/1990	3.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	0.0097	--	--	
Soil Vapor Borings												
SV-1 (SS-1)	8/19/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-1 (SS-1)	8/19/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-1 (SS-1)	8/19/1996	21	--	--	<1.0	<0.005	<0.005	<0.005	0.014	--	--	
SV-2 (SS-2)	8/19/1996	3	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-2 (SS-2)	8/19/1996	8	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-2 (SS-2)	8/19/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-2 (SS-2)	8/19/1996	21	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	

TABLE 2

CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Depth	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Notes
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ESL												
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Table K-1	*Direct Exposure: Residential*		*370*	*100*	*100*	*0.12*	*63*	*2.3*	*31*	*30*	*260*	
Table K-2	*Direct Exposure: Commercial-Industrial*		*3,700*	*450*	*450*	*0.27*	*210*	*5.0*	*100*	*65*	*750*	
Table K-3	*Direct Exposure: Construction-Trench Worker*		*12,400*	*4,200*	*4,200*	*12*	*650*	*210*	*420*	*2,800*	*750*	
SV-3 (SS-3)	8/19/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-3 (SS-3)	8/20/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-3 (SS-3)	8/20/1996	21	--	--	17	**0.67**	0.74	0.38	1.2	--	--	
SV-4 (SS-4)	8/20/1996	6	--	--	<1.0	<0.005	<0.005	<0.005	0.012	--	--	
SV-4 (SS-4)	8/20/1996	9.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-4 (SS-4)	8/20/1996	23.5	--	--	**97**	**0.59**	<0.010	1.0	**2.9**	--	--	
SV-5 (SS-5)	8/20/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-5 (SS-5)	8/20/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-5 (SS-5)	8/20/1996	24.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-6 (SS-6)	8/20/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-6 (SS-6)	8/20/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-6 (SS-6)	8/20/1996	25	--	--	61	**0.85**	0.65	1.2	**3.6**	--	--	
SV-7 (SS-7)	8/20/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-7 (SS-7)	8/20/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-7 (SS-7)	8/20/1996	25	--	--	**400**	**2.3**	2.7	**9.3**	**40**	--	--	
SV-8 (SS-8)	8/20/1996	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-8 (SS-8)	8/20/1996	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
SV-8 (SS-8)	8/20/1996	25	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	
Soil Borings												
SB-1	7/5/2006	5	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-1	7/6/2006	10	--	--	<1.0	0.0006	<0.001	<0.001	<0.001	<0.0005	--	
SB-1	7/6/2006	15	--	--	1.7	0.008	0.001	<0.001	0.003	<0.0005	--	
SB-1	7/6/2006	18	--	--	6.5	0.026	<0.001	0.019	0.003	<0.0005	--	
SB-1	7/6/2006	20	--	--	22	0.005	<0.001	0.025	0.040	<0.0005	--	
SB-1	7/6/2006	25	--	--	**520**	**0.99**	0.83	**11**	**28**	<0.062	--	
SB-1	7/6/2006	30	--	--	58	0.017	0.007	0.21	0.44	<0.002	--	
SB-1	7/6/2006	35	--	--	<1.0	0.001	0.003	0.004	0.009	0.0006	--	
SB-2	7/5/2006	5	--	--	2.1	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-2	7/7/2006	10.5	--	--	**1,300**	**0.071**	<0.001	0.36	0.18	<0.062	--	
SB-2	7/7/2006	15	--	--	63	<.003	<0.005	0.013	<0.005	<0.003	--	
SB-2	7/7/2006	20	--	--	68	0.013	0.010	0.41	0.10	<0.002	--	
SB-2	7/7/2006	23.5	--	--	**330**	<0.063	<0.13	0.77	<0.13	<0.063	--	

TABLE 2

CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Depth	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Notes
		fbg	Concentrations in mg/kg									
ESL												
Table G	*Soil Leaching, Drinking Water Resource*		*NE*	*83*	*83*	*0.044*	*2.9*	*3.3*	*2.3*	*0.023*	*NE*	
Table K-1	*Direct Exposure: Residential*		*370*	*100*	*100*	*0.12*	*63*	*2.3*	*31*	*30*	*260*	
Table K-2	*Direct Exposure: Commercial-Industrial*		*3,700*	*450*	*450*	*0.27*	*210*	*5.0*	*100*	*65*	*750*	
Table K-3	*Direct Exposure: Construction-Trench Worker*		*12,400*	*4,200*	*4,200*	*12*	*650*	*210*	*420*	*2,800*	*750*	
			--	--								
SB-3	7/5/2006	5	--	--	<1.0	0.0006	<0.001	<0.001	<0.001	<0.0005	--	
SB-3	7/6/2006	10	--	--	<1.0	0.001	0.001	<0.001	<0.001	<0.0005	--	
SB-3	7/6/2006	15	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-3	7/6/2006	20	--	--	6.7	<0.0005	<0.001	0.006	0.01	<0.0005	--	
SB-3	7/6/2006	25	--	--	2.8	0.001	0.001	0.22	0.55	<0.0005	--	
SB-3	7/6/2006	31.5	--	--	**1,100**	<0.063	<0.13	**7.0**	**22**	<0.063	--	
SB-3	7/6/2006	35	--	--	**4,600**	**5.5**	**28**	**96**	**450**	<0.062	--	
SB-3	7/6/2006	38.5	--	--	<1.0	0.0006	<0.001	0.001	0.002	<0.0005	--	
SB-4	7/5/2006	5	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-4	7/6/2006	10	--	--	<1.0	0.0009	0.001	<0.001	0.002	<0.0005	--	
SB-4	7/6/2006	15	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-4	7/6/2006	20	--	--	<1.0	0.0008	0.001	<0.001	0.001	<0.0005	--	
SB-4	7/6/2006	25	--	--	**630**	<0.063	<0.13	**4.0**	**22**	<0.063	--	
SB-4	7/6/2006	30	--	--	**950**	**1.1**	1.0	**10**	**50**	<0.063	--	
SB-4	7/6/2006	35	--	--	**550**	**0.85**	0.58	**5.3**	**26**	<0.063	--	
SB-4	7/6/2006	40	--	--	**720**	**0.72**	0.73	**14**	**69**	<0.063	--	
SB-4	7/6/2006	45	--	--	**240**	**0.43**	0.15	**4.7**	**19**	<0.063	--	
SB-4	7/6/2006	47.5	--	--	<1.0	0.0008	<0.001	<0.001	0.002	<0.0005	--	
SB-5	7/5/2006	5	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-5	7/7/2006	10	--	--	<1.0	0.003	0.003	<0.001	0.002	<0.0005	--	
SB-5	7/7/2006	15	--	--	<1.0	0.004	0.004	<0.001	0.002	<0.0005	--	
SB-5	7/7/2006	20	--	--	<1.0	0.003	0.003	<0.001	0.001	<0.0005	--	
SB-5	7/7/2006	25	--	--	3.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	
SB-5	7/7/2006	30	--	--	**590**	**0.64**	0.80	**8.4**	**35**	<0.062	--	
SB-5	7/7/2006	32	--	--	**980**	**14**	**60**	**34**	**180**	<0.062	--	

TABLE 2

CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Depth	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Notes
		fbg	Concentrations in mg/kg									
ESL												
Table G	*Soil Leaching, Drinking Water Resource*	*NE*	*83*	*83*	*0.044*	*2.9*	*3.3*	*2.3*	*0.023*	*NE*		
Table K-1	*Direct Exposure: Residential*	*370*	*100*	*100*	*0.12*	*63*	*2.3*	*31*	*30*	*260*		
Table K-2	*Direct Exposure: Commercial-Industrial*	*3,700*	*450*	*450*	*0.27*	*210*	*5.0*	*100*	*65*	*750*		
Table K-3	*Direct Exposure: Construction-Trench Worker*	*12,400*	*4,200*	*4,200*	*12*	*650*	*210*	*420*	*2,800*	*750*		

Notes:
mg/kg = Milligrams per kilogram
<x = Indicates chemical not detected at or above reporting limit x
fbg = Feet below grade
ND = Non-detect
-- = Not analyzed for this constituent
ESL = Environmental Screening Level, California Regional Water Quality Control Board - San Francisco Bay Region's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* , Interim Final - November 2007 (Revised May 2008).
Bold = Concentration exceeds California Regional Water Quality Control Board ESL
~~100~~ = Excavated sample location
NE = Not established
TOG = Total oil and grease
TPHd = Total petroleum hydrocarbons quantified as diesel
TPHg = Total petroleum hydrocarbons quantified as gasoline
MTBE = Methyl-tertiary butyl ether

2006 samples
Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M
Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B
Methyl tertiary butyl ether (MTBE) by EPA Method 8260B

1996 samples
TPHg by Modified EPA Method 8015
BTEX by EPA Method 8020

1990 samples
TPHg by EPA Method 3550/8015
BTEX by EPA Method 5020/8015/8020
Lead by California LUFT Manual, 12/87
Total oil and grease (TOG) by SM 503 D&E

TABLE 3

CUMULATIVE SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	*Date*	*Depth (feet)*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*Oxygen*	*Carbon Dioxide*	*Methane*
			parts per billion by volume (ppbv)					%	
ESL Table E-2, Residential Shallow Soil Gas			*84 (26)**	*63,000 (16,719)**	*980 (226)**	*21,000 (4,836)**	*NE*	*NE*	*NE*
ESL Table E-4, Residential Shallow Soil Gas - Using DTSC Attenuation Factors			*42 (13)**	*31,000 (8,227)**	*490 (113)**	*10,000 (2,303)**	*NE*	*NE*	*NE*
SV-1	8/19/1996	3	<4.3	<4.3	<4.3	<8.6	22	0.076	<0.002
SV-2	8/19/1996	8	<6.1	<6.1	<6.1	<12.2	1.4	28	0.010
SV-3	8/19/1996	8	<4.4	7.6	<4.4	6.7	21	0.25	<0.002
SV-3	8/20/1996	25	**2,100**	**3,800**	**680**	**2,300**	21	0.58	0.004
SV-4	8/20/1996	3	<4.3	<4.3	<4.3	<4.6	14	9.3	<0.002
SV-4	8/20/1996	8	<4.2	<4.2	<4.2	5.7	21	0.35	<0.002
SV-4	8/20/1996	11	<4.2	6.0	<4.2	<8.4	21	0.80	0.007
SV-4	8/20/1996	25	**38,000**	**140,000**	**20,000**	**83,000**	21	0.37	0.002
SV-4 DUP	8/20/1996	25	**39,000**	**140,000**	**22,000**	**87,000**	21	0.35	0.002
SV-5	8/20/1996	12	6.2	32	11	39	22	0.091	<0.002
SV-6	8/20/1996	3	29	42	6.4	25.4	0.51	0.054	0.005
SV-7	8/20/1996	3	<4.2	5.1	<4.2	6.8	21	0.47	<0.002
SV-8	8/20/1996	3	40	83	9.5	59	19	3.6	<0.002
SV-9	7/30/1998	3	<4.0	4.7	<4.0	<4.0	NA	NA	NA
SV-10	7/30/1998	3	6.9	<3.9	<3.9	<3.9	NA	NA	NA
SV-11	7/30/1998	3	<4.0	<4.0	<4.0	<4.0	NA	NA	NA
SV-12	7/30/1998	6	<3.9	<3.9	<3.9	<3.9	NA	NA	NA
SV-13	7/30/1998	6.5	<4.0	<4.0	<4.0	<4.0	NA	NA	NA
SV-14	7/30/1998	6	<4.0	<4.0	<4.0	<4.0	NA	NA	NA
SV-15	7/30/1998	6	<4.0	<4.0	<4.0	<4.0	NA	NA	NA
SV-16	7/30/1998	6	<4.0	<4.0	<4.0	<4.0	NA	NA	NA

TABLE 3

CUMULATIVE SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	*Date*	*Depth (feet)*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*Oxygen*	*Carbon Dioxide*	*Methane*
			parts per billion by volume (ppbv)					%	
ESL Table E-2, Residential Shallow Soil Gas			*84 (26)**	***63,000 (16,719)****	*980 (226)**	*21,000 (4,836)**	*NE*	*NE*	*NE*
ESL Table E-4, Residential Shallow Soil Gas - Using DTSC Attenuation Factors			*42 (13)**	*31,000 (8,227)**	*490 (113)**	*10,000 (2,303)**	*NE*	*NE*	*NE*

Notes:

Benzene, toluene, ethylbenzene and total xylenes (BTEX) Modified EPA Method TO-14

<x = Indicates chemical not detected at or above reporting limit x

Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Revised May 2008).

* Initial number is in micrograms per cubic meter as quoted by SF-RWQCB (converted to ppbv using Air Toxics Units Conversion Calculator (http://www.airtoxics.com/cclasses/unitcalc.html))

NA = Not analyzed

NE = Not established

Bold = Concentration exceeds California Regional Water Quality Control Board ESL

TABLE 4

GRAB-GROUNDWATER ANALYTICAL DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Sample ID	*Date*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*
ESL		*micrograms per liter (µg/L)*					
Table F-1A: Potential Drinking Water Resource		***100***	***1***	***40***	***30***	***20***	***5***
Table E-1: Potential Vapor Intrusion Concerns for Residential Use		***Use Soil Gas***	***540***	***380,000***	***170,000***	***160,000***	***24,000***
SV-1 (WS-1)	8/19/1996	**610**	**28**	8.2	25	**100**	NA

Notes:
fbg = feet below grade
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8015.
Benzene, toluene, ethylbenzene, and xylenes (BTEX) analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
-- = Not analyzed/not applicable
NA = Not Analyzed
<x = Not detected above laboratory reporting limit x.
ESL = Environmental Screening Levels, San Francisco Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Revised May 2008)
Bold = Concentration exceeds California Regional Water Quality Control Board ESL

APPENDIX A

REGULATORY CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

June 7, 2012

NOTICE TO COMPLY

Mr. Ian Robb
Chevron Corporation
6101 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to:
ianrobb@chevron.com)

Kevin & Julia Hinkley
Kevin Hinkley Service
5269 Crow Canyon Road
Castro Valley, CA 94552

Subject: Notice to Comply; Fuel Leak Case No. RO0000350 and GeoTracker Global ID T0600100344, Chevron #9-5607, 5269 Crow Canyon Road, Castro Valley, CA 94552

Dear Mr. Robb, and Mr. and Ms. Hinkley:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the *Site Status Update,* dated January 26, 2010, the *Site Status Update,* dated August 17, 2010, and the *First Semi-Annual 2012 Groundwater Monitoring and Sampling Report,* dated February 27, 2012. The reports were prepared and submitted on your behalf by Conestoga-Rovers & Associates (CRA). A document entitled *Two-Phase Extraction Pilot Test Report,* dated July 12, 2005 documented an apparently successful pilot test (conducted in October 2003) of this remedial technology and reported that a minimum radius of influence of over 30 feet was achieved with less than 1 gallon of groundwater extracted. The July 2005 report also reported a significant residual contaminant mass.

An August 2005 directive letter expressed concern about the delay in reporting of the results and the lack of a submitted Remedial Action Plan. This directive letter also requested a groundwater sampling transect between C-16 to C-15, to protect Crow Creek from direct discharges, and a Site Conceptual Model (SCM). Due dates for a Remedial Action Plan, the transect work plan, and the initial SCM were set in the directive letter. A work plan submitted in June 2006 proposed additional bores around the former UST complex for the purpose of refining the remedial area of concern. Ultimately a Remedial Action Plan was submitted in January 2007 and modified the remedial technology to Dual-Phased Extraction (DPE). In a directive letter in February 2007, ACEH approved the remedial action and requested a remedial action report 60 days after installation of the DPE.

While remedial work design has progressed, to this date implementation has been stalled for multiple years. These delays are apparently related to concern regarding the location of a remedial compound. Please note that all responsible parties are jointly and severally liable to implement corrective actions. The delays in remedial implementation are not justified nor acceptable. While ACEH notes significant more recent declines in groundwater concentrations in offsite well C-9, the migration pathways for contamination have not been evaluated nor has an SCM been submitted. This site is out of compliance with ACEH directives.

Implementation of site characterization and/or cleanup at this site is necessary to be protective of human health and the environment and to move this case towards completion. Please note that as Responsible Parties, you are required by California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11, §2720 through §2728 to characterize the site and implement corrective action. In order to regain compliance with directives from this agency, please complete the work requested below and submit the identified reports by the dates listed below. Failure to submit the requested documents by the due dates specified below may result in issuance of a Notice of Violation and possible enforcement action by the District Attorney and/or ineligibility for reimbursement of corrective action costs incurred at the site from

the Underground Storage Tank Cleanup Fund. Furthermore, ACEH may recommend removal of this site from the Underground Storage Tank Cleanup Fund.

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below.

TECHNICAL COMMENTS

1) **Request for Implementation of Interim Remedial Action** – Residual groundwater concentrations up to 35,000 µg/l TPHg and 15,000 µg/l benzene are present offsite in offsite well C-6. Groundwater in onsite well C-3 contains up to 46,000 µg/l TPHg and 9,000 µg/l benzene. Non-cooperative property owners not only can retain future financial liability for contamination that exists beneath the property vicinity, but also current financial liability, and can be required to financially participate in site investigations and remedial action. ACEH requests that a final compound location selection be immediately prioritized and that ACEH be informed that remedial actions have been implemented by the date identified below.

2) **Request for Work Plan** – Significant decreases in the dissolved-phase groundwater plume at well C-9 over the past approximately 1.5 years are apparent. This may preclude the need to install a bore transect between C-15 and C-16; however, it does appear appropriate to define the lateral and vertical extent of the groundwater plume between C-9 and C-12, a distance of approximately 85 to 90 feet. This is intended to be protective of the residential units immediately downgradient of these well locations, and may address the data gap associated with potential direct discharges to Crow Creek. As a consequence, please submit a work plan for this task by the date identified below. Data gaps currently known can dovetailed with this work plan, or if identified in the SCM (requested below), can be addressed at a later time.

3) **Request for Preferential Pathway Study** – As you are aware, the purpose of a preferential pathway study is to locate potential migration pathways and conduits and determine the probability of a groundwater plume encountering preferential pathways and conduits that could spread contamination.

   ACEH is aware that a limited utility survey (sanitary sewer only) was conducted and reported on in the August 1997 *Vapor Pathway Survey;* however, the data is limited. Additionally ACEH has located a written notation concerning the presence of an unknown well located, or previously located, on the immediately downgradient parcel. The notation dates from 2008, at about the time of the destruction of well C-15, so is presumed not to be one of the wells installed by Chevron. As a consequence, ACEH requests that you perform a preferential pathway study that details the potential migration pathways and potential conduits (utilities, utility laterals, pipelines, foundational, and etc.) for vertical and lateral migration that may be present in the vicinity of the site.

   Discuss your analysis and interpretation of the results of the preferential pathway study (including the well survey and utility survey requested below) and report your results in the report requested below. The results of your study shall contain all information required by California Code of Regulations, Title 23, Division 3, Chapter 16, §2654(b). ACEH requests that this available information be utilized and that it be augmented with onsite, or site vicinity, utility lateral locations, including utility invert depths. ACEH has found that the location of utility laterals can be of import in vadose zone contaminant migration.

   a. **Utility Survey** - An evaluation of all utility lines, utility laterals, and trenches (including sewers, storm drains, pipelines, trench backfill, foundation backfill, etc.) within and near the site and plume area(s) is required as part of your study. Please reduce, and synthesize available information and maps, and generate appropriate (vicinity and / or site specific) maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study.

   b. **Well Survey** - The preferential pathway study is requested to include a well survey of all wells (monitoring and production wells: active, inactive, standby, decommissioned (sealed

with concrete), abandoned (improperly decommissioned or lost); and dewatering, drainage, and cathodic protection wells) within a ¼ mile radius of the subject site.

4) **Request for an SCM** – The SCM for the site is overdue, and will be required by the new Low-Threat Policy, once implemented. Identification of data gaps in the SCM is appropriate and required. As a consequence ACEH requests the submittal of an initial SCM by the date identified below.

5) **Groundwater Monitoring** – Groundwater monitoring at recovery well RW-1 has not been conducted since January 1996, at which time the concentration of benzene was higher than near source wells C-6 and C-3. As a consequence, ACEH requests the incorporation of this well into the semi-annual groundwater monitoring currently conducted at the site, and the reporting of any and all sampling or product removal events since that time.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Mark Detterman), according to the following schedule:

- **July 20, 2012** – Notification of Remedial Action Implementation
- **August 10, 2012** – Work Plan and Preferential Pathway Study
- **August 31, 2012** - SCM
- **60 Days After Work Plan Approval** – Soil and Groundwater Investigation Report
- **September 28, 2012** – Second Semiannual 2012 Groundwater Monitoring Report
- **March 1, 2013** – First Semiannual 2013 Groundwater Monitoring Report

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.

Should you have any questions, please contact 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: 2012.06.07 14:26:53 -07'00'

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

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

cc: Kiersten Hoey, Conestoga-Rovers & Assoc., 5900 Hollis Street, Suite A, Emeryville, CA 94608 (sent via electronic mail to khoey@craworld.com)

Greg Barclay, Conestoga-Rovers & Associates, 10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670; (sent via electronic mail to: GBarclay@CRAworld.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Electronic File

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	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 (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

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

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

Submission Instructions

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

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

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

APPENDIX B

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

SUMMARY OF ENVIRONMENT INVESTIGATION AND REMEDIATION
FORMER CHEVRON STATION 95607 CASTRO VALLEY

1985 Tank Leak
A fuel underground storage tank (UST) and associated product piping, installed in 1971, were removed after failing a tightness test. According to Chevron's leak report, no product was observed in the tank excavation or on the water table. Inventory discrepancies from September 1984 to February 26, 1985 indicated an estimated loss of approximately 670 gallons of regular gasoline. No additional information is available.

March 1985 Monitoring Well Installation
Groundwater Technology, Inc. (GTI) installed wells C-1 through C-8 to determine the extent of hydrocarbons in groundwater. There is no documentation that soil samples collected from the well borings were submitted for laboratory analysis. Light non-aqueous phase liquid (LNAPL) was detected in wells C-1 and C-3. Additional information available in GTI's April 1, 1985 *Monitoring Well Results*.

May 1985 Remediation Well Installation
GTI installed 10-inch recovery well RW-1 near well C-6 using an 18-inch bucket auger. GTI also installed well C-9 downgradient of the recovery well. A groundwater extraction and treatment system (GWET) using a ½ horsepower water table depression pump was installed in RW-1 to create a cone of depression and induce LNAPL flow to RW-1. A 200-gallon carbon vessel was installed to treat extracted groundwater prior to storm sewer discharge. GTI concluded that the system's effectiveness was limited by the low permeability clay underlying the site and low extraction rate averaging 0.2 gallons per minute. Site wells were monitored and bailed bi-weekly while the system was operating. As of October 1987, GTI recorded 32 gallons of LNAPL removed. The system appeared to run in this configuration through 1988 (GTI's April 13, 1988 Update Report). No data is available for system operation from 1988 to 1990. Well Installation details are available in GTI's 1985 *Gasoline Recovery Report*.

September 1989 Soil Vapor Investigation
Pacific Environmental Group Inc. (PEG) installed 16 onsite exploratory soil probes and collected soil vapor data from depths between 8 and 20 fbg. Data presented herein is based on a PEG letter dated May 8, 1990. No investigation report was located.

February 1990 Monitoring Well Installation
PEG installed offsite wells C-10A, C-10B, and C-11 through C-16 to assess groundwater conditions crossgradient and downgradient of the site. Soil samples were only collected from wells C-12, C-13, and C-15. Data presented herein is based on a PEG letter dated May 8, 1990. No investigation report was located.

March 1990 Remediation System Upgrades
Chemical Processors, Inc. (Chempro) installed a GWET with pumps in RW-1 and C-9 and water treatment using an oil/water separator and air stripper. It appears the system operated in this

configuration through May 25, 1995. Additional information is available in Geraghty & Miller Inc.'s June 22, 1992 letter titled *Response to Regional Water Quality Control Board Inquiry.*

October 1990 UST Removal and Compliance Sampling
Blaine Tech collected soil samples following the removal of three 10,000 gallon fiberglass USTs and product piping. Soil samples AF(#2), AOP(#1), BF(#6), BOP(#3), CF(#5), and COP(#4) were collected from beneath the ends of the USTs at depths ranging from 15 to 18 fbg. An additional 300 cubic yards of hydrocarbon-bearing soil were excavated from the UST pit, and confirmation samples AF(#7), AOP(#4), BOP(#1), CF(#1), COP(#3), and COP(#2) were collected at depths ranging from 18 to 22.5 fbg. No TPHg or benzene were detected in soil samples PL(#7) and PL(#8) collected beneath the product piping. Additional information is available in Blaine Tech's October 24, 1990 *Tank Removal* report.

August 1996 Soil Vapor Sampling
Weiss Associates (Weiss) collected 12 soil vapor samples from temporary soil vapor probes SV-1 through SV-8. One sample was collected from SV-1, SV-2, SV-5, SV-6, SV-7, and SV-8, two samples were collected from SV-3 at 8 and 25 fbg, and four samples were collected from SV-4 at 3, 8, 11, and 25 fbg. The highest soil vapor concentrations were detected in SV-3 and SV-4 at 25 fbg. Soil samples were collected from each soil vapor boring and a grab-groundwater samples was collected from boring SV-1 at 23 fbg. Hydrocarbons were only detected in saturated soil. Additional details are presented in Wiess's January 20, 1997 *Soil Vapor Survey Sampling Report.*

June 1997 Vapor Pathway Survey
Weiss conducted a vapor pathway survey to identify possible preferential vapor transport pathways that may intersect condominium units in the Forest Creek Townhomes complex located on Waterford Place in Castro Valley. The survey consisted of collecting parcel plans from the City of Castro Valley Building Department (CVBD) and contacting utility services to determine the locations and depths of underground conduits in the vicinity of Townhome units 1 through 9. Weiss determined that preferential vapor transport was unlikely to be present at the Forest Creek Townhomes. Impacted groundwater and soil is several feet deeper than the conduits identified in this survey. Additionally, in September 1996, WA conducted a well survey within ½-mile radius of the site by contacting Alameda County Department of Public Works for the location of water supply wells. No water supply wells were identified, and WA concluded installation of future water supply wells was unlikely due to the current use and availability of municipal water. Additional details are presented in Weiss' August 8, 1997 *Vapor Pathway Survey.*

July 1998 Soil Vapor Survey
Weiss installed temporary vapor probes SV-9 through SV-16 along the sanitary sewer trench beneath Waterford Place. One soil vapor sample was collected from each probe at depths ranging from 3 to 6.5 fbg to investigate whether a preferential vapor pathway may intersection Townhomes Unit #1. Based on the soil vapor data, Weiss concluded there is no preferential vapor pathway into Townhomes Unit #1 or other units from the sewer line. Additional details are presented in Weiss' May 31, 2000 *Project Summary*.

May 2000 Corrective Action Plan
Weiss submitted a Corrective Action Plan (CAP) recommending bailing LNAPL, installing ORC socks in plume centerline wells and quarterly groundwater monitoring. The plume length was estimated to be approximately 200 feet and plume centerline wells were identified as C-3, C-6, C-9, and C-15. More information is available in Weiss' May 31, 2000 *Corrective Action Plan*.

July 2001 Offsite Well Destruction
Delta Environmental (Delta) destroyed wells C-10A and C-10B by pressure grouting with neat cement grout to facilitate the sale of County owned property downgradient of the site. More information is available in Delta's August 31, 2001 *Well Destruction Report*.

2002 Interim Remedial Action Proposal
Delta proposed a short-term high vacuum two-phase extraction (TPE) event on well C-3 as the most cost effective remedial alternative. Decreasing TPHg and benzene concentration trends were observed in wells upgradient, crossgradient, and downgradient of the source area, indicating the plume was naturally attenuating. More information is available in Delta's September 23, 2002 *Source Area Assessment and Proposed Work* and November 22, 2002 *Evaluation of Plume Length and Impacts to Crow Creek*.

October 2003 Pilot Test
Cambria Environmental Technology, Inc. (Cambria) conducted a TPE pilot test. The pilot test was originally scheduled to be performed for five days, but was extended for a total of twelve days to collect additional system performance data to better evaluate possible full-scale TPE system installation. TPE pilot test equipment consisted of a 400 cubic foot per minute thermal/catalytic oxidizer operating in thermal mode. Cambria concluded that TPE could be a viable remedial option for the site based on water table drawdown and vapor-phase hydrocarbon removal rates. Additional information is available in Cambria's July 12, 2005 *Two-Phase Extraction Pilot Test Report*.

July 2006 Subsurface Investigation
Cambria advanced soil boring SB-1 adjacent to well C-6, and soil borings SB-2 through SB-5 adjacent to the former fuel UST pit to assess residual hydrocarbons in soil. Additional information is available in Cambria's October 25, 2006 *Subsurface Investigation Report*.

January 2007 Remedial Action Plan
Cambria proposed dual-phase extraction (DPE), a form of multi-phase extraction using in-well pumps to extract groundwater, as the most viable and cost-effective method to remediate the site. DPE was more technically feasible then TPE given the increased distances from the proposed remediation compound to the proposed extraction wells. More information is available in Cambria's January 8, 2007 *Remedial Action Plan*.

September 2008 Offsite Well Destruction
CRA destroyed offsite well C-15 to assist with redevelopment construction. The adjacent property was originally owned by Alameda County when the well was installed, but the property has since been sold to the current landowner, who planned to develop the property with single family homes. The well was pressure grouted and the upper portions of the well

were removed. Additional information is available in CRA's December 3, 2008 *Well Destruction Report*.

APPENDIX C

BORING LOGS

TAL E 1
WELL LOGS

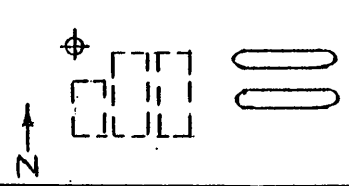
GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Well Number 1

Drilling Log

Project Chevron/Castro Valley Owner
Location 5269 Crow Canyon Rd. Project Number 20-3231
Date Drilled 3-5-85 Total Depth of Hole 55' Diameter 4"
Surface Elevation Water Level, Initial 42' 24-hrs. 23.26'
Screen: Dia. 4" Length 30' Slot Size .020
Casing: Dia. 4" Length 25' Type PVC
Drilling Company Kleinfelder Drilling Method HSA
Driller John/Doug Log by P.J. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
3'					Asphalt
4'					Gravel base (slight gas odor)
7'					Gray clay with gravel
10					Brown clay with some gravel
					Alternating layers of brown clay and graveley clay to 30 feet
20					
25					Intermittant moist clay and gravel Initial depth to water
30					Tighter gray brown clay, no pebbles and odors are present
40					
42					
48					Hit bedrock. Spoils indicate gray weathered shale to bottom
50					
55					Bottom of well

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GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 2

Project: Chevron/Castro Valley — Owner:

Location: 5269 Crow Canyon Rd. — Project Number: 20-3231

Date Drilled: 3-6-85 — Total Depth of Hole: 46' — Diameter: 4"

Surface Elevation: — Water Level, Initial: — 24-hrs.: 26.10'

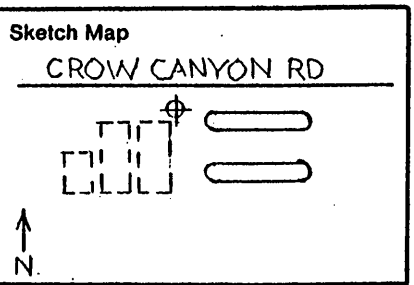
Screen: Dia. 4" — Length: 25' — Slot Size: .020

Casing: Dia. 4" — Length: 21' — Type: PVC

Drilling Company: Kleinfelder — Drilling Method: HSA

Driller: Paul/Doug — Log by: P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
4"					Asphalt and concrete
6"					Gravel base with brown soil
1'					Gray brown soil
5					Gray soil 60% rounded pebbles
8					Gray clay with pebbles
9					Very dark gray clay with occasional white dust
10					Slight odor at 10 feet
					Reddish brown clay with some pebbles
20					
23					Light brown dry soil with rounded pebbles, slight odor
25					Intermittant layers of gravel and light brown clayey soils with auger occasionally bringing up very moist clay. Bedrock reached at 35 feet
30					
35					Bedrock
40					
46					Refusal BOTTOM OF WELL
50					

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GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 3

Project Chevron/Castro Valley Owner

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-6-85 Total Depth of Hole 55' Diameter 4"

Surface Elevation Water Level, Initial 24-hrs. 26.30'

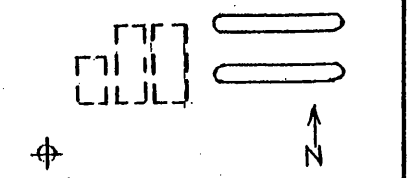
Screen: Dia. 4" Length 30' Slot Size .020

Casing: Dia. 4" Length 25' Type PVC

Drilling Company Kleinfelder Drilling Method HSA

Driller Paul/Doug Log by P.Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
4"					Asphalt
1'					Gravel
					Dark gray clay
10					
15					Continue dark gray clayey soil
20					Reddish brown clayey soil
25					Light brown clayey soil Slight odor at 25 feet
30					
40					
50					Pulled augers indicate moist clay from 30 feet to wet clay at 40 feet to bottom of well at 55!
55					

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GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 4

Project Chevron/Castro Valley Owner _____

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-9-85 Total Depth of Hole 35' Diameter 4"

Surface Elevation _____ Water Level, Initial 17.80' 24-hrs. _____

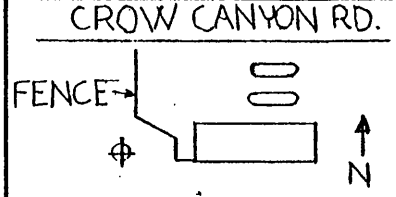
Screen: Dia. 4" Length 25' Slot Size .020

Casing: Dia. 4" Length 10' Type PVC

Drilling Company Kleinfelder Drilling Method HSA

Driller _____ Log by P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
1					Dark brown soil
2					Light brown sandy soil
5					Light brown soil with some gravel
7					Dark brown clayey soil
8					Dark gray clay
10					
15					Dark brown clay
18					Very wet light brown mud
20					
35					Rejection in gray weathered shale Bottom of well.

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 5

Project Chevron/Castro Valley Owner

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-9-85 Total Depth of Hole 45' Diameter 4"

Surface Elevation Water Level, Initial 25' 24-hrs.

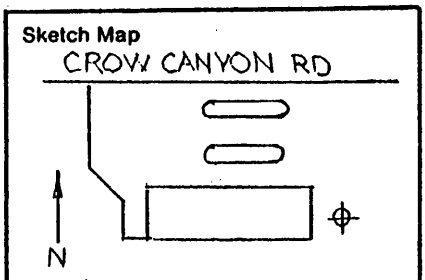
Screen: Dia. 4" Length 30' Slot Size .020

Casing: Dia. 4" Length 15' Type

Drilling Company KLIENFELDER Drilling Method HSA

Driller Log by P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
3"					Asphalt
1'					Reddish brown soil
3					Clayey reddish soil with gravel
5					
7					Clayey brown soil with some gravel
10					Brown clay
11					Dark brown clay
15					Dark brown clay with gravel
20					Lighter brown clayey soil
25					Saturated light brown clayey mud
35					
45					Liquid surfaced with augers at 45 feet Bottom of well

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 6

Project Chevron/Castro Valley Owner

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-14-85 Total Depth of Hole 35' Diameter 4"

Surface Elevation Water Level, Initial 18.51' 24-hrs.

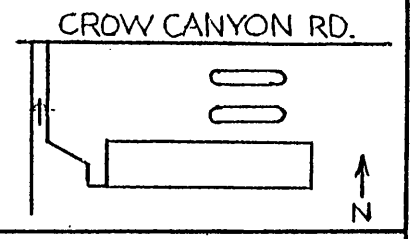
Screen: Dia. 4" Length 25' Slot Size .020

Casing: Dia. 4" Length 10' Type PVC

Drilling Company Kleindfelder Drilling Method HSA

Driller Log by P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
5'					Dark brown top soil
8					Dark gray clay
13					Lighter brown clay
15					
20					Initial depth to water
25					Light brown clay water saturated
30					
35					Bottom of well.

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GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 6B

Project Castro Valley Owner Chevron

Location Waterford Place Project Number 20-3231

Date Drilled 3-13-85 Total Depth of Hole 11' Diameter ---

Surface Elevation ___ Water Level, Initial ___ 24-hrs. ---

Screen: Dia. --- Length --- Slot Size .02

Casing: Dia. --- Length --- Type ___

Drilling Company Sierra Pacific Drilling Method HSA

Driller ___ Log by P. Walsh

Sketch Map

Notes

Abandoned

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
3					Asphalt
4					Gravel bed
6					Brown sandy soil
5					Sandy clay
10					
11					Refusal at 11 feet powder on end of bit white limey dust
					Backfilled hole and re-surfaced road

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GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 7

Project Chevron/Castro Calley Owner

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-21-85 Total Depth of Hole 35' Diameter 2"

Surface Elevation Water Level, Initial 24-hrs.

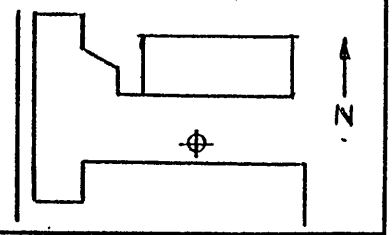
Screen: Dia. 2" Length 15' Slot Size 020

Casing: Dia. 2" Length 15' Type PVC

Drilling Company Layne Western Drilling Method HSA

Driller Mike/Mark Log by P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
4"					Top soil with gravel
5'					
1'					Light brown soil
4					Dark brown clay
7					Some gravel
8					Back into dark brown clay
11					1" of wet clay Back into dark brown clay
15					Lighter brown clay
20					Water 21 feet
28					Firmed up a bit, flowing water at 30 feet
30					Bottom of well

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GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 8

Project Chevron/Castro Valley Owner

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 3-21-85 Total Depth of Hole 29' Diameter 2"

Surface Elevation Water Level, Initial 23.50' 24-hrs.

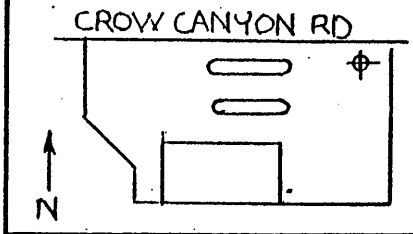
Screen: Dia. 2" Length 20' Slot Size .020

Casing: Dia. 2" Length 9' Type PVC

Drilling Company Layne Western Drilling Method HSA

Driller Gunner Log by P. Walsh

Sketch Map



Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
5'					Asphalt over concrete
4'					Light brown clayey soil
5					Light brown clay
7					
8					Dark brown moist clay
12					
13					Light brown sandy clayey fill (dry) mixed with some gravel at 13 feet
20					Very sandy light brown slightly
21					Clayey soil
23					Tight clay
23.5					Initial depth to water
25					
29					Weathered bedrock
31					Bedrock rejection (gray shale)

02100144

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 9

Project Chevron/Castro Valley Owner Chevron U.S.A.

Location 5269 Crow Canyon Rd. Project Number 20-3231

Date Drilled 6-24-85 Total Depth of Hole 30 ft. Diameter 6-inch

Surface Elevation _____ Water Level, Initial _____ 24-hrs. _____

Screen: Dia. 4-inch Length 25-feet Slot Size .020 in.

Casing: Dia. 4-inch Length 5-feet Type PVC

Drilling Company Sierra Pacific Drilling Method H.S. Auger

Driller Lynn/Gary Log by B. Channell

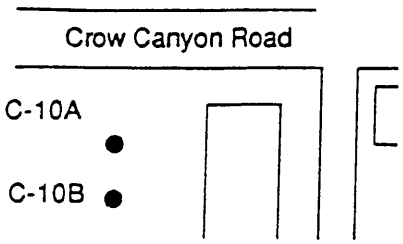
Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					0-6" top soil.
2					Brown silty sand and gravel.
4					
6					
8					
10					Brown silty clay with small gravel.
12					
14					
16					
18					
20					Dark grey silty clay, gas odor.
22					
24					Green sandy clay, with gravel.
26					
28					Weathered grey shale, very hard in parts.
30					

02100144

LOCATION MAP

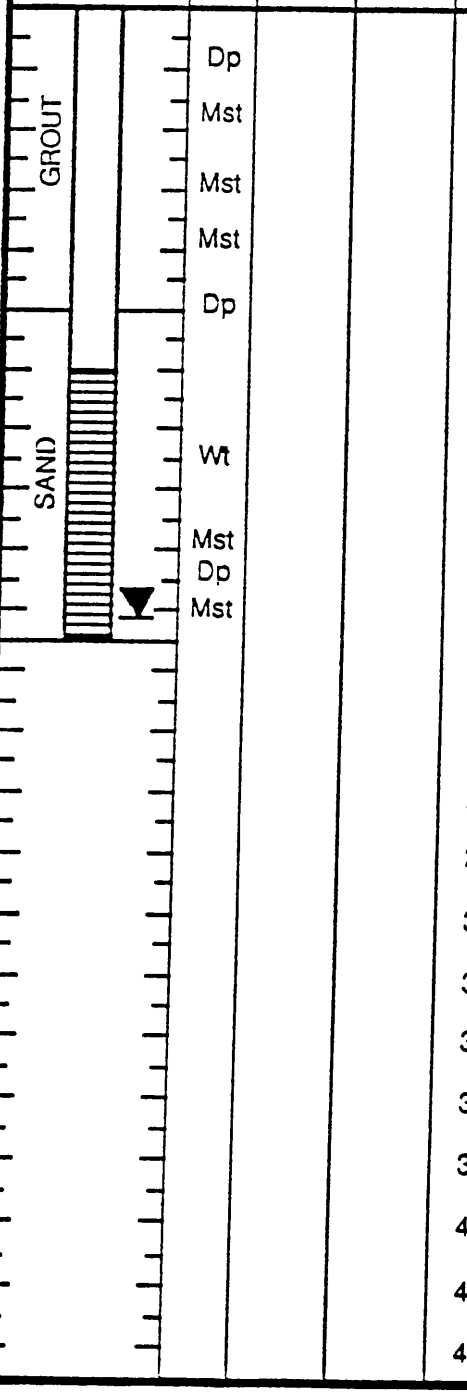


PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / C-10A
BORING NO.
PAGE 1 OF 1

PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-22-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 21'
WELL DEPTH: 21'
WELL DIAMETER: 3"



LITHOLOGY / REMARKS

CLAYEY GRAVEL; dark brown; moderate plasticity; 15% clay and silt; 25% fine sand; 20% medium to coarse sand; <10% fine sub-angular gravel; medium dense; no product odor.

CLAY; dark brown; moderate plasticity; 40% fine to coarse sand; 5% fine gravel; stiff; no product odor.

CLAYEY SAND; dark yellow brown; grayish brown; gravelly; low to moderate plasticity; 30% clay and silt; 30% fine sand; 20% medium to coarse sand; 20% fine sub-angular gravel (well cemented sandstone); medium dense; no product odor.

@4': concrete with rebar.

SILTY SAND: dark gray; low plasticity; 30% silt; 50% fine sand; 30% medium sand; 10% coarse sand; trace fine gravel; medium dense; no product odor.

CLAYEY SAND; dark gray; low to moderate plasticity; 20% clay and silt; 20% fine sand; 50% medium to coarse arkosic sub-angular sand; 10% fine sub-angular to rounded gravel; medium dense; no product odor.

@10-14': wood chips and sweet odor.

SILT; very dark brown; low plasticity; 30% fine to medium sand; root material; hard; no product odor.

CLAY; brown to yellow brown; moderate to high plasticity; 20-40% fine to coarse sand; trace fine gravel; occasional caliche cemented nodules <1cm; iron oxide stain; olive mottling; black speckling; very stiff; no product odor.

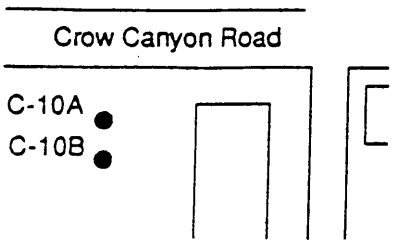
CLAY; brown; high plasticity; trace gravel; very soft.

@21': stiff and very stiff; no product odor.

BOTTOM OF BORING AT 21'

NOTE: Refer to boring log for Well C-10B for Sampling Intervals, Penetration Resistance, and PID Vapor readings.

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / C-10B
BORING NO.
PAGE 1 OF 1

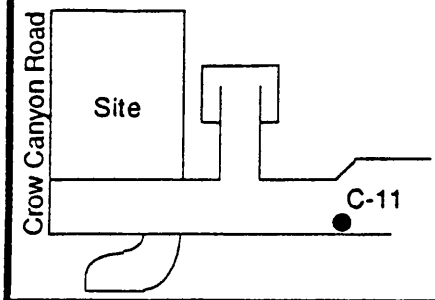
PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-21,22-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 32'
WELL DEPTH: 32'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Dp			2			GC	CLAYEY GRAVEL; dark brown; moderate plasticity; 15% clay and silt; 25% fine sand; 20% medium to coarse sand; <40% fine sub-angular gravel; medium dense; no product odor.
	Mst			4			CL SC	CLAY; dark brown; moderate plasticity; 40% fine to coarse sand; 5% fine gravel; stiff; no product odor.
	Mst	4.6	15	6				CLAYEY SAND; dark yellow brown; grayish brown gravelly; low to moderate plasticity; 30% clay and silt; 30% fine sand; 20% medium to coarse sand; 20% fine sub-angular gravel (well cemented sandstone); medium dense; no product odor.
	Mst			8			SM	
	Dp	1.8	15	10			SC	
				12				SILTY SAND: dark gray; low plasticity; 30% silt; 50% fine sand; 30% medium sand; 10% coarse sand; trace fine gravel; medium dense; no product odor.
	Wt	1.2	14	14				
	Mst			16			ML	CLAYEY SAND; dark gray; low to moderate plasticity; 20% clay and silt; 20% fine sand; 50% medium to coarse arkosic sub-angular sand; 10% fine sub-angular to rounded gravel; mecium dense; no product odor.
	Dp			18			CL	
	Mst	1.2	17	20			CH	
	Mst		11*					SILT; very dark brown; low plasticity; 30% fine to medium sand; root material; hard; no product odor.
	Mst		22*	22				CLAY; brown to yellow brown; moderate to high plasticity; 20-40% fine to coarse sand; trace fine gravel; occasional caliche cemented nodules <1cm; iron oxide stain; olive mottling; black speckling; very stiff; no product odor.
BENTONITE	Mst	0	18	24				
				26				CLAY; brown; high plasticity; trace gravel; very soft.
	Mst	0	>50	28			SM	@21': stiff and very stiff; no product odor.
				30				@23.5': brown; high plasticity; 70% clay and silt; 25% fine sand; 5% medium to coarse black well rounded sand grains; weak platy structure; thin zoneof sub-angular blocky structure; minor iron oxide discoloration; trace small (<5mm) caliche nodules; very stiff; no productodor.
SAND				32				SILTY SANDSTONE; dark yellow brown; arkosic; sub-angular; moderate to well sorted; thin (1/2 cm) thick moderately cemented laminations interbedded with friable and loose sands; vertical gray sand structure; caliche zones; no visible fractures; moderate to deep weathering; friable; moist; no product odor.
				34				
				36				
				38				
				40				
				42				BOTTOM OF BORING AT 32'
				44				

* Standard Penetration, Split-Spoon Sampler

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

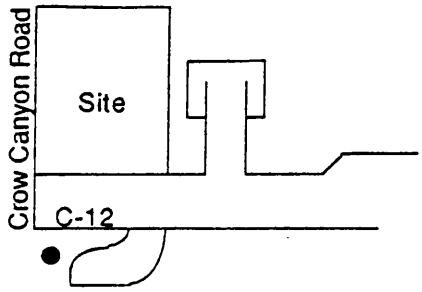
WELL / C-11
BORING NO.
PAGE 1 OF 1

PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-22-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 35'
WELL DEPTH: 34'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Dp			2	CL	FILL; asphalt; road base. CLAY - FILL; brown; gravelly; 10% gravel; stiff; no product odor.
	Mst	0	PUSH	4		@4': dark yellow brown; gravelly; moderate to high plasticity; 50% clay and silt; 20% fine sand; 10% medium to coarse sand; 20% fine sand; 20% sub-angular to sub-rounded gravel; very stiff; no product odor.
				6		
				8		
	Dp	1.5	22	10		@9': angular blocks of sandstone; gravels; angular blocks of gray fill soil; very stiff; no product odor. @11': stiff; drilling change. @12': soft; drilling change.
				12		
				14	SC	CLAYEY SAND; dark gray; moderate to high plasticity; 30% clay and silt; 20% fine sand; 35% medium to coarse sand; 15% fine gravel; medium dense; no product odor.
BENTONITE	Mst	2.2	13	16	CL	CLAY; dark yellow brown; gravelly; moderate to high plasticity; 50% clay and silt; 20% fine sand; 10% medium to coarse sand; 20% fine sand; 20% sub-angular to sub-rounded gravel; very stiff; no product odor.
				18	SC	CLAYEY SAND (native); dark brown; moderate plasticity; 40% clay; 30% fine sand; 30% medium sand; medium dense; no product odor.
	Mst	1.5	18	20		@19': dark yellowish brown; moderate plasticity; 40% clay; 40% fine sand; 20% medium sand; weak sub-angular blocky structure; iron oxide discoloration patches (<1/2 cm diameter); medium dense; no product odor.
SAND				22		
	Mst	0.5	33	24		@24': 25% clay; 20% silt; 35% fine sand; 20% medium sand; weak platy structure; dense; no product odor.
				26		
				28		
	V. Mst	0.1	24	30	SM	SILTY SAND; brown; clayey; low to moderate plasticity; 30% silt and clay; 30% fine sand; 40% medium to coarse arkosic sub-angular sand; trace of angular blocks of 3/4" diameter iron oxide sandstone; dark brown to black speckling; iron oxide speckling; minor rootholes; <3mm with gray alteration and wet; medium dense; no product odor.
				32		
	Mst	0	>50	34	SM	SILTY SANDSTONE; interlayered yellow brown to dark yellow brown; arkosic sand and terrigenous clay composition; poorly sorted; sub-angular; thinly bedded (<1/4" to 1/2") approximate dip ~30°; thin laminations of claystone with angular claystone clasts <1/2"; no observable fractures;deep weathering; weak to moderate cementation; friable to medium hardness; with soft (semi-plastic) claystone; no product odor.
				36		
				38		
				40		
				42		
				44		BOTTOM OF BORING AT 35'

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

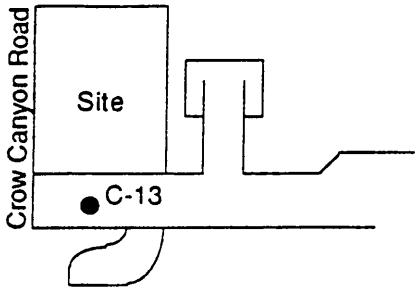
WELL / C-12
BORING NO.
PAGE 1 OF 1

PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-22-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 34.5'
WELL DEPTH: 30.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				2				FILL; dark brown; sandy organic top soil.
	Mst	1.5	PUSH	4			SC	CLAYEY SAND - FILL; dark brown to dark yellow brown; low plasticity; 10-20% clay and silt; 30% fine sand; 50-60% medium arkosic sub-angular sand; angular blocks of yellow brown sand and clay; medium dense; no product odor.
				6				
				8				@8': approximate fill material/native material contact.
	Mst	0	22	10			ML	@9.5': 10-20% fine sub-angular gravels; medium dense; no product odor.
				12				SILT; dark brown.
BENTONITE	V. Mst	123	13	14			ML	SILT; brown to yellow brown; sandy; low to moderate plasticity; 55-60% silt and clay; 30% fine sand; 10-15% medium sand; iron oxide discoloration; thin layer of sub-angular blocky clay with gravel; rootholes (<1mm); very moist; stiff; strong product odor.
	Wt			16				
	Wt	2.0	7	18			CH-ML	CLAY to SILT; brown; sandy; moderate to high plasticity; 35% clay; 30% silt; 35% fine sand; trace medium to coarse sand; wet rootholes (<1mm); firm; faint product odor.
				20				
				22				
				24				
	Mst	2.0	16	26			CH	CLAY; dark yellow brown; sandy; moderate to high plasticity; 45% clay; 20% silt; 20% fine sand; 20% medium to coarse sand; fine rootholes and rootholes up to 2mm; stiff; no product odor.
				28				
	Mst	11	19	30				@29.5': 30% clay; 25% silt; 20% fine sand; 20% medium to coarse sand; 5% fine well rounded gravel; horizontal, lenticular iron oxide discoloration band <5mm thick; minor rootholes; stiff; no product odor.
SAND	V. Mst			32			SM	SILTY SAND; brown; low plasticity; 10% clay; 35% silt; 35% fine sand; 20% medium to coarse sand; trace gravel; platy blocks of sandy claystone (<3cm diameter); iron oxide banding; medium dense; no product odor.
				34				
				36				BOTTOM OF BORING AT 34.5'
				38				
				40				
				42				
				44				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / C-13
BORING NO.
PAGE 1 OF 1

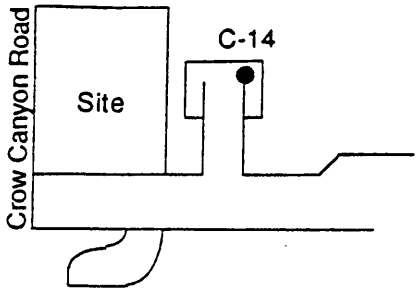
PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-23-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 33'
WELL DEPTH: 28.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Dp			2			GC	FILL; asphalt. CLAYEY GRAVEL; roadbase; dark yellow brown; occasional cobbles; dense; no product odor.
	Mst			4				@4.5': no sample taken; gravel and cobbles.
	Mst			6			CL	CLAY - FILL; dark gray; sandy; no product odor.
	Dp	0	>50	8			GC	@6.5': yellow brown. CLAYEY GRAVEL - FILL; sandy; dark yellow brown; 30% clay and silt; 20% fine to coarse sand; 50% fine gravels; sub-angular; very dense; no product odor.
BENTONITE				10			SB	SILTSTONE (Bedrock); sandy; yellow brown; terrigenous and arkosic sediments; no observable bedding; thin (<1/4") parting; no observable fractures; moderate to deep weathering; weak cementation; friable; no product odor.
	Dry	313	>50	12				
				14				
				16				@14.5': fissile, shale like parting; less sand; no product odor.
				18				
SAND	Dry-Dp	45	>50	20			SM	SILTY SANDSTONE; dark yellow brown; arkosic; sub-angular; poorly sorted; thin lenticular beds of silty sandstone interlayered with thin shaley beds of silt and claystone, oriented ~<10°; organic shales with thin (1 cm long and 1 mm wide) organic inclusions in-line with bedding; iron oxide discoloration; no observable fractures; weak to moderate cementation; angular sandstone inclusions; deep to moderate weathering; friable to moderate hardness; no product odor.
				22				
				24				
	Mst	3.0	>50	26			CS	CLAYSTONE; silty; very dark gray; organic marine shaley claystone; bedding oriented at 10-15°; thin lenticular and cemented beds <1/2" thick; very light gray; discoloration lamination <1mm to 5mm; plastic sediments between cemented zones; weak weathering; friable to soft; no product odor.
				28				
	Mst	NA	>50	30				@29.5': 1/2" bedding of dark gray; gray and brown gray claystone and siltstone; bedding apparently at ~65°; poorly cemented; soft; no product odor.
	Dry			32				@33': auger refusal; gray; well cemented; hard.
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 33'

LOCATION MAP

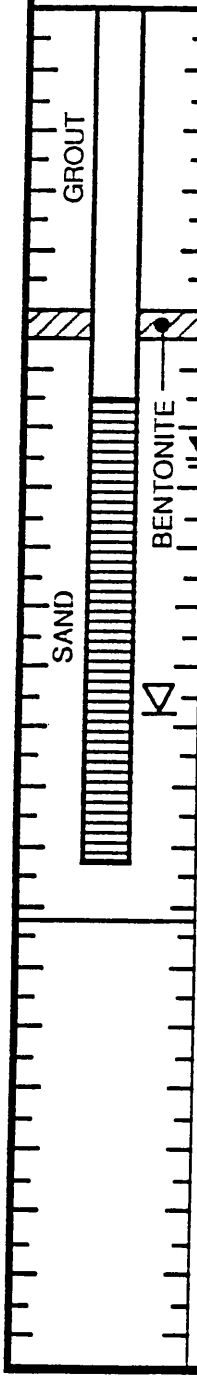


PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / C-14
BORING NO.
PAGE 1 OF 1

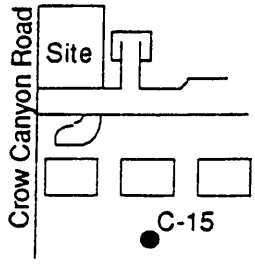
PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-23-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 30.5'
WELL DEPTH: 28.5'
WELL DIAMETER: 3"



DEPTH (FEET)	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	SOIL TYPE	LITHOLOGY / REMARKS
0					FILL; asphalt and road base
2				SC	CLAYEY SAND; dark yellow brown; low to moderate plasticity; 30% clay and silt; 30% fine sand; 30% medium to coarse arkosic sub-angular sand; 10% fine gravel; medium dense; no product odor.
4	Mst	0	PUSH		
6					
8					
10	Mst	0	15	CL	CLAY; dark yellow brown; moderate plasticity; 60% clay; 20% fine sand; 20% medium to coarse sand; trace angular blocks of sandstone gravel; rootholes (<1mm); weak sub-angular blocky; stiff; no product odor.
12					@14': increase in fines; no gravel; increase in plasticity; stiff; no product odor.
14	V. Mst	0	9		
16					
18				SC	CLAYEY SAND; yellow brown; moderate to high plasticity; 30% clay and silt; 30% fine sand; 30% medium to coarse sand; 10% fine to coarse sand; angular block of very dark brown iron oxide cemented sandstone; wet rootholes (<2mm) with no alteration; medium dense; no product odor.
20	Mst	0	22		
22					
24	Dp-Mst	0	>50	CS	CLAYSTONE; dark yellowish brown; terrigenous; no observable bedding; shaley; crushed after sampling; well lithified; deep weathering; friable; no product odor.
26					
28					
30	Dp	0	>50		@30': flaser bedding in zones; bedding <45°; no product odor.
32					BOTTOM OF BORING AT 30.5'
34					
36					
38					
40					
42					
44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

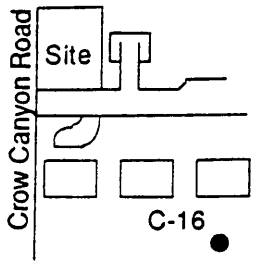
WELL / C-15
BORING NO.
PAGE 1 OF 1

PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-24-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 21'
WELL DEPTH: 17.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Mst			2				FILL; top soil (clayey sand); trace organics.
	Mst			4			CH-OH	CLAY; very dark brown; high plasticity; topsoil; 50% clay and silt; 40% fine sand; root material; stiff; no product odor.
	Dry	0	PUSH	6			SM	SILTY SAND; dark yellow brown; low plasticity; 20-30% silt and clay; 40% fine sand; 30-40% medium sand; clayey sand inclusions; rootholes <1mm; medium dense; no product odor.
BENTONITE				8				
	Mst	61	12	10			CL	@8.5': soft; drilling change.
SAND				12				CLAY; dark brown; sandy; moderate to high plasticity; 65% clay and silt; 35% fine sand; 5% medium sand; rootholes <4mm, wet, with 2-4mm gray alteration rinds;
				14			SC-SM	stiff; moderate to strong product odor.
	V. Mst	0	15	16				CLAYEY SAND to SILTY SAND; dark brown; low to moderate plasticity; 20% clay; 20% silt; 40% fine sand; 20% medium sand; rootholes (<1mm), wet, with minor gray alteration; one 3mm tap root with gray alteration rind; medium dense; no product odor.
NATURAL				18				
	Dp-Dry	0	>50	20			SM	SILTY SANDSTONE; dark yellow brown; arkosic; poorly sorted; sub-angular; bedding oriented at >45°; thin (1/4") thick lentucular laminations of sandstone with claystone inclusions; iron oxide discoloration; gray discoloration; deep brown discoloration; no visible fractures; moderate to deep weathering; friable; no product odor.
				22				
				24				
				26				
				28				
				30				BOTTOM OF BORING AT 21'
				32				
				34				
				36				
				38				
				40				
				42				
				44				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / C-16
BORING NO.
PAGE 1 OF 1

PROJECT NO. 320-18.02
LOGGED BY: DKU
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2 X 12 SAND

CLIENT: Chevron USA
DATE DRILLED: 2-24-90
LOCATION: Crow Canyon Road
HOLE DIAMETER: 8"
HOLE DEPTH: 29.0'
WELL DEPTH: 29.0'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Mst			2			CL	CLAY - FILL; brown; sandy; moderate to high plasticity; 60% clay and silt; 30% fine to medium sand; 10% coarse sand and fine gravel; medium dense; no product odor.
	V. Mst			4				
	Mst	0	20	6			SC	CLAYEY SAND; dark yellow brown; low to moderate plasticity; 20-30% clay and silt; 30% fine sand; 40-50% medium arkosic, sub-angular sand; black speckling; moist rootholes (<1mm) with gray alteration; root material; soil fractures (vertical); weak sub-angular blocky; iron oxide discoloration; strong iron oxide and manganese oxide altered coarse sand grains; medium dense; no product odor.
				8				
BENTONITE	Mst	61	10	10			CL	CLAY; dark brown; sandy; moderate to high plasticity; 65% fat and lean clay and silt; 25% fine arkosic sand; 10% medium to coarse quartz sand; rootholes with tap root <3mm having a1cm gray alteration rind; iron oxide mottling; stiff; no product odor.
				12				
				14				
	Mst-Dp	0	20	16			SC SS	CLAYEY SAND; dark yellow brown; moderate plasticity; 30% clay and silt; 40% fine sand; 20% medium arkosic sub-angular sand;10% claystone and sandstone angular blocks.
				18				
SAND	Dry	0	>50	20			MS	SILTY SANDSTONE; dark yellow brown; arkosic; poorly sorted; no visible bedding; no visible fractures crushed after sampling; iron oxide laminations; black iron oxide and manganese oxidized claystone fragments and horizons; deep weathering; friable; no product odor.
				22				
	Dry	0	35	24				SILTSTONE; brown; clayey; sandy; terrigenous silts; no observable bedding; crushed after sampling; iron oxide patches; black manganese oxide patches; gray alteration patches; moderately weathered; moderately lithified; friable; no product odor.
				26				@25': very dark gray; shaley; sandy; bedding >45°; silty sandstone; iron oxide interbed<1" thick; possible crushed fracturing; shaley parting; calcite precipitate (sparite) lenses and sparse veins <3mm thick and <1" long, filling fractures; well lithified; moderate to weak weathering; friable to moderate hardness; wet on top and dry on bottom; no product odor.
	Dry	0	0	28				@29': gray; auger refusal; dusty dry recovery in tip.
				30				BOTTOM OF BORING AT 29.0'
				32				
				34				
				36				
				38				
				40				
				42				
				44				

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 9

Project: Chevron/Castro Valley — Owner: Chevron U.S.A.

Location: 5269 Crow Canyon Rd. — Project Number: 20-3231

Date Drilled: 6-24-85 — Total Depth of Hole: 30 ft. — Diameter: 6-inch

Surface Elevation: _____ — Water Level, Initial: _____ — 24-hrs.: _____

Screen: Dia. 4-inch — Length: 25-feet — Slot Size: .020 in.

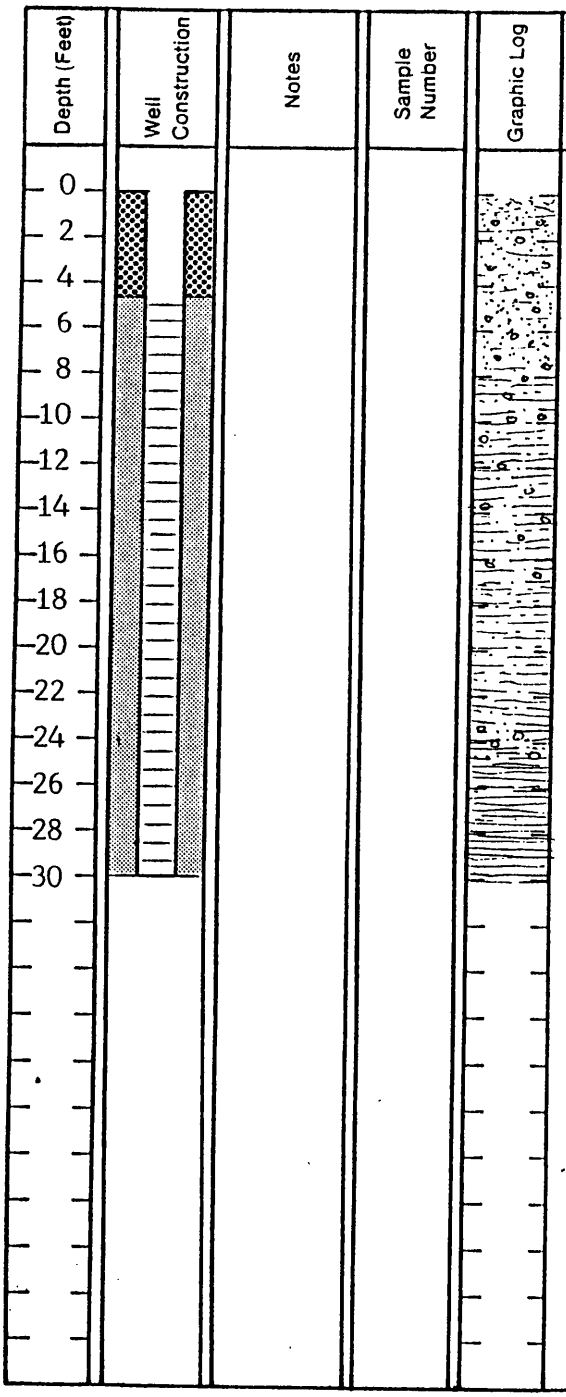
Casing: Dia. 4-inch — Length: 5-feet — Type: PVC

Drilling Company: Sierra Pacific — Drilling Method: H.S. Auger

Driller: Lynn/Gary — Log by: B. Channell

Sketch Map

Notes



Description/Soil Classification (Color, Texture, Structures)

0-6" top soil.

Brown silty sand and gravel.

Brown silty clay with small gravel.

Dark grey silty clay, gas odor.

Green sandy clay, with gravel.

Weathered grey shale, very hard in parts.

02100144

GROUND..ATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number RW-1

Project Chevron/Castro Valley Owner Chevron U.S.A., Inc.

Location Crow Canyon Rd. Project Number 20-3231

Date Drilled 5-31-85 Total Depth of Hole 35 ft Diameter 18-inch

Surface Elevation _____ Water Level, Initial _____ 24-hrs. _____

Screen: Dia. 10-inch Length 25 ft. Slot Size .020

Casing: Dia. 10-inch Length 10 ft. Type Steel

Drilling Company M&M Drilling Drilling Method Auger

Driller Bob Log by Cori Condon

Sketch Map

Notes
Aquarium Sand 36-22 feet
Roofing Gravel 22-8 feet

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
5					Brown sandy clay fill, occasional gravel, moist, no odor.
10					Yellow-brown sandstone, friable, moist, no odor.
13					Dark silty clay, dense, moist, high organic odor.
16					Dark clay, moist, gas odor.
18					Mottled silty clay, moist, gas odor.
20					Red-brown silty clay, occasional pebbles, moist, gas odor.
22					Red sandy clay, moist, gas odor.
31					Mottled clayey silty sand, wet, gas odor.
33					Blue fine sand, occasional cobble, moist, organic odor.
36					Blue sand and gravels, loose, wet, no odor.

02100144

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB-1
JOB/SITE NAME	9-5607	DRILLING STARTED	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	DRILLING COMPLETED	06-Jul-06
PROJECT NUMBER	31J-1950	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3.25 inch	SCREENED INTERVALS	NA
LOGGED BY	B. Deboer	DEPTH TO WATER (First Encountered)	25.0 fbg (06-Jul-06) ▽
REVIEWED BY	B. Foss PG #7445	DEPTH TO WATER (Static)	NA ▼
REMARKS	Cleared to 8 fbg using air-knife-assisted vacuum truck.		

PID (ppm)	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
				ASPHALT	0.3
			SM	**Gravelly silty SAND:** Brown; 60% coarse-grained sand, 20% silt, 20% gravel; moist; non-plastic; high estimated permeability.	2.0
			ML	**Clayey SILT with sand:** Light Brown; 55% silt, 25% clay, 15% coarse-grained sand, 5% gravel; dry; medium estimated plasticity; low to medium estimated permeability.	3.0
			SM	**Gravelly silty SAND:** Light Brown; 40% medium-grained sand, 35% silt, 20% gravel, 5% clay; dry; low estimated plasticity; medium estimated permeability.	5.0
0	SB1-5	5		**Sandy SILT:** Light Brown; 60% silt, 35% sand, 5% clay; moist; low estimated plasticity; medium estimated permeability.	
				Clayey SILT with sand and gravel: Light Brown; 45% silt, 40% clay, 10% fine-grained sand, 5% gravel; high estimated plasticity; low to medium estimated permeability.	
48	SB1-10	10		**Clayey SILT with gravel and sand:** Black; 50% silt, 35% clay, 10% medium-grained sand, 5% gravel; dry; medium estimated plasticity.	
				Sandy SILT with gravel and clay: Brown; 55% Silt, 20% coarse-grained sand, 15% gravel, 10% clay; wet; high estimated permeability.	
87	SB1-15	15	ML	**Clayey SILT:** Black; 70% silt, 30% clay; dry; high estimated plasticity; low estimated permeability.	
	SB1-18			**Sandy SILT with gravel and clay:** Brown/Green; 50% silt, 20% coarse-grained sand, 15% gravel, 10% clay; wet; signs of staining.	
1464	SB1-20	20		**Sandy Clayey SILT:** Brown/Green; 40% silt, 30% medium-grained sand, 30% clay; dry; medium estimated plasticity.	
				Clayey SILT with sand: Brown/Green; 70% silt, 20% clay, 10% fine-grained sand; moist; high estimated plasticity.	
				▽	25.0
993	SB1-25	25	SM	**Silty SAND:** Brown/Green; 60% very fine-grained sand, 40% silt; wet; high estimated plasticity; medium estimated permeability.	
		30			

WELL DIAGRAM: ◄ Portland Type I/II

WELL LOG (PID) I:\9-5607-119-5607 BORING LOGS 082006.GPJ DEFAULT GDT 10/25/06

Continued Next Page

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-1
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	06-Jul-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
470		SB1-30						31.5	
					ML		**Sandy SILT:** Light Brown; 55% silt, 35% very fine-grained sand, 10% clay; moist; medium estimated plasticity; medium estimated permeability. **Sandy SILT:** Light Brown; 55% silt, 45% fine-grained sand; saturated; high estimated plasticity; high estimated permeability.	35.0	
278		SB1-35		35			**Refusal on SANDSTONE:** Light gray; dry.	36.0	Bottom of Boring @ 36 fbg

WELL LOG (PID) I:\9-5607-119-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB-2
JOB/SITE NAME	9-5607	DRILLING STARTED	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	DRILLING COMPLETED	07-Jul-06
PROJECT NUMBER	31J-1950	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3.25 inch	SCREENED INTERVALS	NA
LOGGED BY	B. Deboer	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss PG #7445	DEPTH TO WATER (Static)	NA
REMARKS	Cleared to 8 fbg using air-knife-assisted vacuum truck.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SP		ASPHALT **Gravelly SAND:** Gray; 70% medium to coarse-grained sand, 30% gravel; dry; non-plastic; high estimated permeability.	0.4 3.0	
					SM		**Silty SAND:** Light gray; 75% fine to medium-grained sand, 25% silt; moist; medium estimated plasticity; high estimated permeability.	5.0	
5		SB2-5		5	ML		**Gravelly SILT with sand:** Gray; 40% silt, 35% gravel, 15% sand, 10% clay; dry; low estimated plasticity; medium estimated permeability.	7.0	
865		SB2-1 0.5		10	SW		**SAND with silt and gravel:** Light gray; 70% medium-grained sand, 15% silt, 15% gravel; moist; low estimated plasticity; medium estimated permeability. @ 10 fbg change in the following parameters: Green; dry. @ 12 fbg change in moisture to moist.	14.0	Portland Type I/II
1029		SB2-1 5		15	ML		**Clayey SILT:** Brown/Green; 60% silt, 40% clay; dry; high estimated plasticity; low estimated permeability.	16.0	
					SW		**SAND with silt and gravel:** Bright green; 70% medium-grained sand, 15% silt, 15% gravel; moist; low estimated plasticity; high estimated permeability.	17.0	
					ML		**Clayey SILT:** Brown; 60% silt, 35% clay, 5% fine-grained sand; dry; high estimated plasticity; low estimated permeability.	19.0	
					SW		**SAND with silt and clay:** Brown/Green; 70% medium-grained sand, 15% clay, 15% silt; high estimated permeability.	20.0	
342		SB2-2 0		20	ML		**Clayey SILT:** Dark green; 60% silt, 35% clay, 5% fine-grained sand; high estimated plasticity; low estimated permeability.	21.0	
					SP		**SAND:** Brown/Green; 90% fine-grained sand,10% silt; high estimated permeability.	24.0	
946		SB2-2 3.5					**Refusal on SANDSTONE:**	25.0	Bottom of Boring @ 24 fbg

WELL LOG (PID) I:\9-5607-119-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB-3
JOB/SITE NAME	9-5607	DRILLING STARTED	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	DRILLING COMPLETED	07-Jul-06
PROJECT NUMBER	31J-1950	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3.25 inch	SCREENED INTERVALS	NA
LOGGED BY	B. Deboer	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss PG #7445	DEPTH TO WATER (Static)	NA

REMARKS: Cleared to 8 fbg using air-knife-assisted vacuum truck.

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.2	
					ML		**Sandy SILT:** Light brown; 80% silt, 15% very fine-grained sand, 5% gravel; dry; low estimated plasticity; medium estimated permeability.	3.0	
					SM		**SAND with silt:** Gray; 85% medium-grained sand, 15% silt; dry; non-plastic; high estimated permeability.	4.5	
3		SB3-5		5			**Clayey SILT with sand and gravel:** Black; 55% silt, 20% clay, 15% fine-grained sand, 10% gravel; moist; low estimated plasticity; medium estimated permeability. @ 6 fbg change in the following parameters: Light brown; 55% silt, 25% clay, 10% fine-grained sand; 10% gravel; dry. @ 7 fbg change in the following parameters: Dark brown; moist; medium estimated plasticity; medium estimated permeability.		
244		SB3-10		10			@ 11 fbg change in the following parameters: Black; 50% silt, 40% clay, 10% gravel; dry; high estimated plasticity; low estimated permeability. @ 12 fbg change in the following parameters: 70% silt, 20% clay, 10% coarse-grained sand; moist; medium estimated plasticity; medium estimated permeability. @ 13 fbg change in the following parameters: 55% silt, 35% clay, 10% coarse-grained sand; dry; high estimated plasticity; low estimated permeability. @ 15 fbg change in the following parameters: 60% silt, 40% clay; high estimated plasticity; low estimated permeability. @ 16 fbg change to moist. @ 17 fbg change in the following parameters: 55% silt, 40% clay, 5% gravel; dry.		
250		SB3-15		15					
530		SB3-20		20	ML				Portland Type I/II
1665		SB3-25		25			@ 26 fbg change in the following parameters: Dark brown; 45% silt, 35% clay, 15% fine-grained sand, 5% gravel; moist; medium estimated plasticity, medium estimated permeability.		
				30					

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WELL LOG (PID) I:\9-5607~1\9-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-3
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	07-Jul-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1332		SB3-3 1.5					@ 30 fbg change in the following parameters: Dark brown/green; 50% silt, 30% fine-grained sand, 20% clay; dry.		
							@ 33 fbg change in the followng parameters: Dark brown; 70% silt, 15% clay, 15% very fine-grained sand; moist; high estimated plasticity.		
1209		SB3-3 5		35					
							@ 37 fbg change in the following parameters: Dark green; 70% silt, 15% clay, 15% very fine-grained sand; moist.		
1289		SB3-3 8.5						39.0	Bottom of Boring @ 39 fbg
							SANDSTONE	40.0	

WELL LOG (PID) I:\9-5607-119-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-4
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	07-Jul-06
PROJECT NUMBER	31J-1950	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct Push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25 inch	**SCREENED INTERVALS**	NA
LOGGED BY	B. Deboer	**DEPTH TO WATER (First Encountered)**	43.0 fbg (07-Jul-06) ▽
REVIEWED BY	B. Foss PG #7445	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Cleared to 8 fbg using air-knife-assisted vacuum truck.

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
					ML		**Sandy SILT:** Light brown; 60% silt, 30% fine-grained sand, 10% gravel; dry; low estimated plasticity; medium estimated permeability.		
0		SB4-5		5			@ 4 fbg change in the following parameters: 70% silt, 15% sand, 10% gravel, 5% clay.	6.0	
					SW		**Gravelly SAND with silt :** Gray; 60% medium-grained sand, 25% gravel, 15% silt; dry; low estimated plasticity; high estimated permeability.	7.0	
							Clayey SILT with sand: Black; 70% silt, 20% clay, 10% sand; dry; high estimated plasticity; low estimated permeability.		
3		SB4-10		10			@ 13 fbg change in the following parameters: 60% silt, 40% clay.		
2		SB4-15		15			**Gravelly, Clayey SILT with sand:** Black; 50% silt, 25% clay, 10% fine-grained sand, 15% gravel; medium estimated plasticity.		
2		SB4-20		20			**Clayey SILT:**Black; 70% silt, 30% clay; high estimated plasticity.		
							@ 23 fbg change in the following parameters: Dark brown/green; 60% silt, 40% clay.		◄ Portland Type I/II
2099		SB4-25		25			**Sandy Clayey SILT:**Light Brown; 65% silt, 20% clay, 15% fine-grained sand; medium estimated plasticity; medium estimated permeability.		
					ML				
				30					

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WELL LOG (PID) I:\9-5607~1\9-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-4
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	07-Jul-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
828		SB4-3 0					**Clayey, Gravelly SILT with Sand:** Black; 60% silt, 15% clay, 15% gravel, 10% medium-grained sand; moist. @ 31 fbg change in the following parameters: Brown; 60% silt, 30% clay, 10% fine-grained sand.		
1269		SB4-3 5		35			**Sandy SILT with clay:** Brown; 60% silt, 30% fine-grained sand, 10% clay; moist, medium estimated plasticity, medium estimated permeability.		
24		SB4-4 0		40			@ 42 fbg change in the following parameters: 65% silt, 20% fine-grained sand, 10% clay, 5% gravel; wet. ▽		
772		SB4-4 5		45			**Sandy SILT with trace gravels**: Brown; 55% silt, 40% fine-grained sand, 5% gravel; moist, low estimated plasticity.		
119		SB4-4 7.5						48.0	
							SANDSTONE	49.0	Bottom of Boring @ 48 fbg

WELL LOG (PID) I:\9-5607~1\9-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-5
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	07-Jul-06
PROJECT NUMBER	31J-1950	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct Push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25 inch	**SCREENED INTERVALS**	NA
LOGGED BY	B. Deboer	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	B. Foss PG #7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Cleared to 8 fbg using air-knife-assisted vacuum truck.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		ASPHALT	0.3	
							Silty SAND: Light Brown/gray; 80% sand, 20% silt; dry; non-plastic; high estimated permeability.	3.0	
0		SB5-5		5			**Gravelly SILT with sand:** Light brown; 40% silt, 35% gravel, 15% medium-grained sand, 10% clay; dry; low estimated plasticity; medium estimated permeability.		
							Gravelly, Sandy SILT with clay: Brown; 55% silt, 20% medium-grained sand, 15% gravel, 10% clay; dry, medium estimated plasticity; medium estimated permeability.	7.0	
							Clayey SILT with sand: Gray; 55% silt, 25% clay, 15% medium-grained sand, 5% gravel; moist, medium estimated plasticity; medium estimated permeability. @ 8 fbg change to color Black.		
0		SB5-10		10			@ 10 fbg change in the following parameters: 55% silt, 30% clay, 10% medium-grained sand, 5% gravel.		
							Sandy, Gravelly SILT with clay: Black; 50% silt, 20% coarse-grained sand, 20% gravel, 10% clay; moist, low estimated plasticity, medium estimated permeability.		
							Clayey SILT with trace sand: Black; 70% silt, 25% clay, 5% medium-grained sand; moist, medium estimated plasticity.		
0		SB5-15		15			@ 16 fbg change to dry.		Portland Type I/II
					ML		@ 19 fbg change in the following parameters: Light brown; 60% silt, 40% clay; high estimated plasticity; low estimated permeability.		
0		SB5-20		20					
0		SB5-25		25			@ 26 fbg change in the following parameters: 75% silt, 25% clay.		
				30					

WELL LOG (PID) I:\9-5607~1\9-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

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BORING/WELL LOG

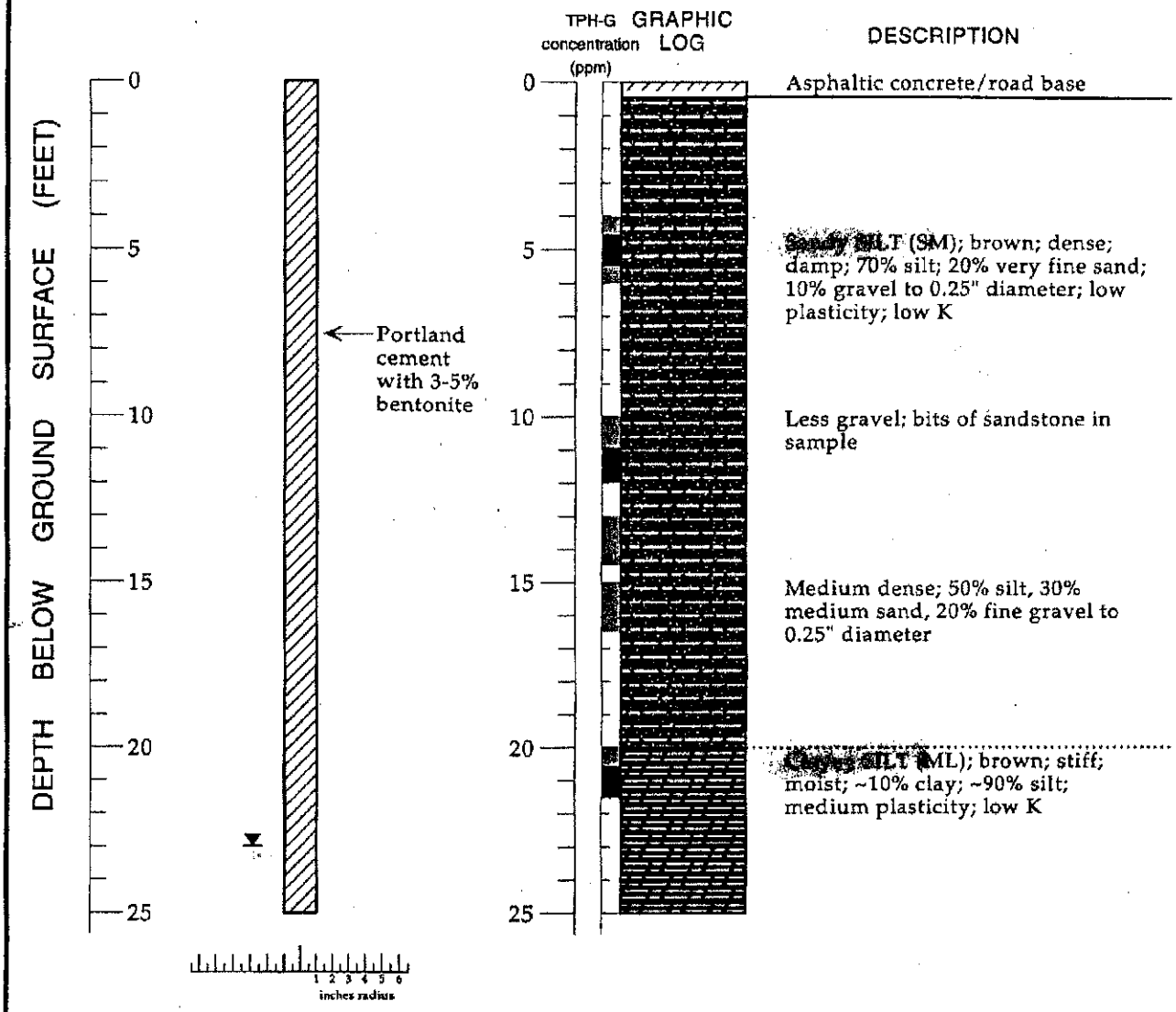
CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	SB-5
JOB/SITE NAME	9-5607	**DRILLING STARTED**	05-Jul-06
LOCATION	5269 Crow Canyon Road, Castro Valley, California	**DRILLING COMPLETED**	07-Jul-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
31		SB5-3 0					**Sandy SILT with clay and gravel:** Brown; 65% silt, 15% medium-grained sand, 10% clay, 10% gravel; medium estimated plasticity; medium estimated permeability. **Clayey SILT:** Green/Black; 60% silt, 30% clay, 10% fine-grained sand; moist; high estimated plasticity. Boring Terminated at 32.5 feet.	32.5	Bottom of Boring @ 32.5 fbg
74		SB5-3 2							

WELL LOG (PID) I:\9-5607~1\9-5607 BORING LOGS 082006.GPJ DEFAULT.GDT 10/25/06

SAMPLE LOCATION SV-1



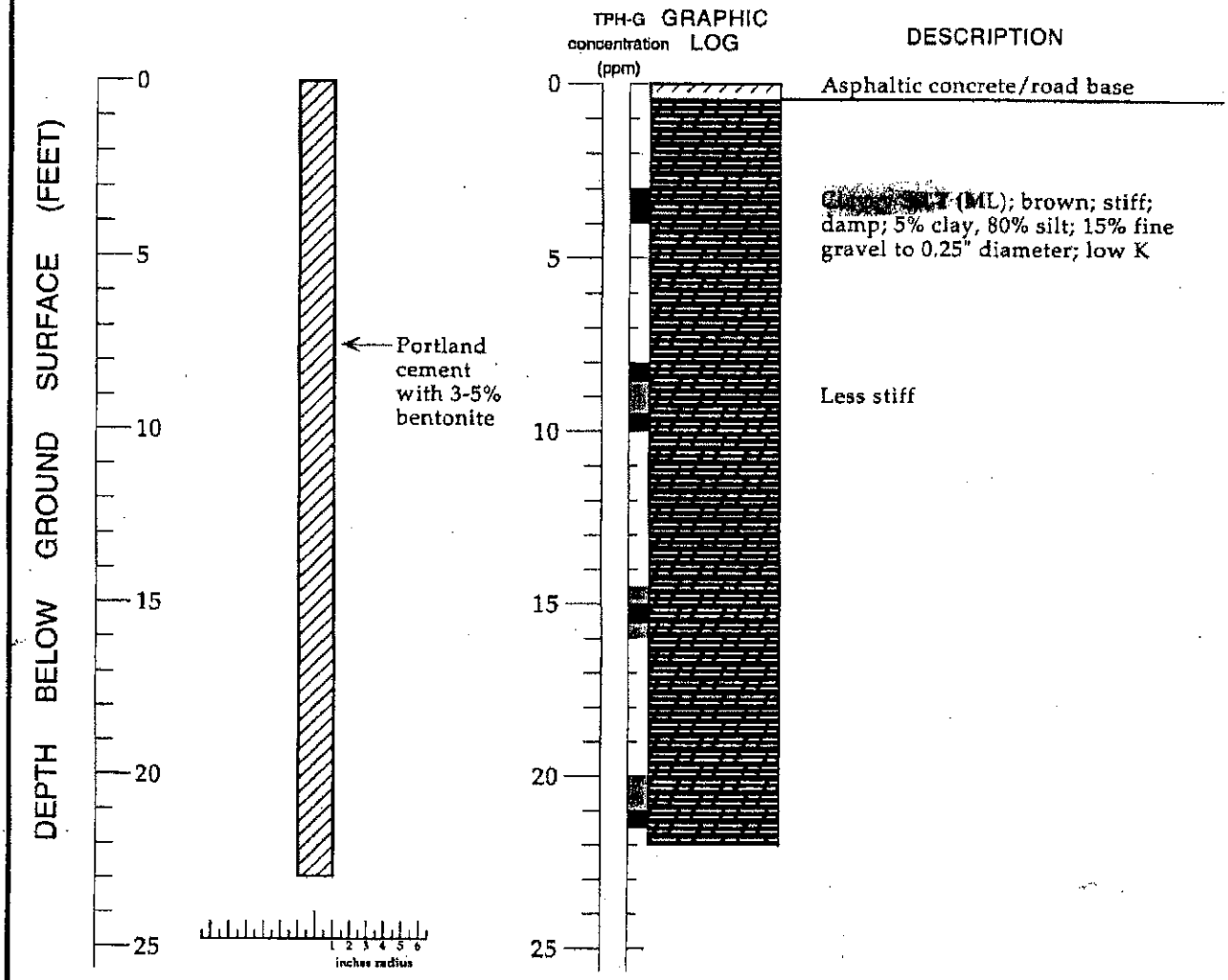
EXPLANATION

- Water level during drilling (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 19, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-1 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-2



EXPLANATION

- Water level during drilling (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
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License Number: C57-485165
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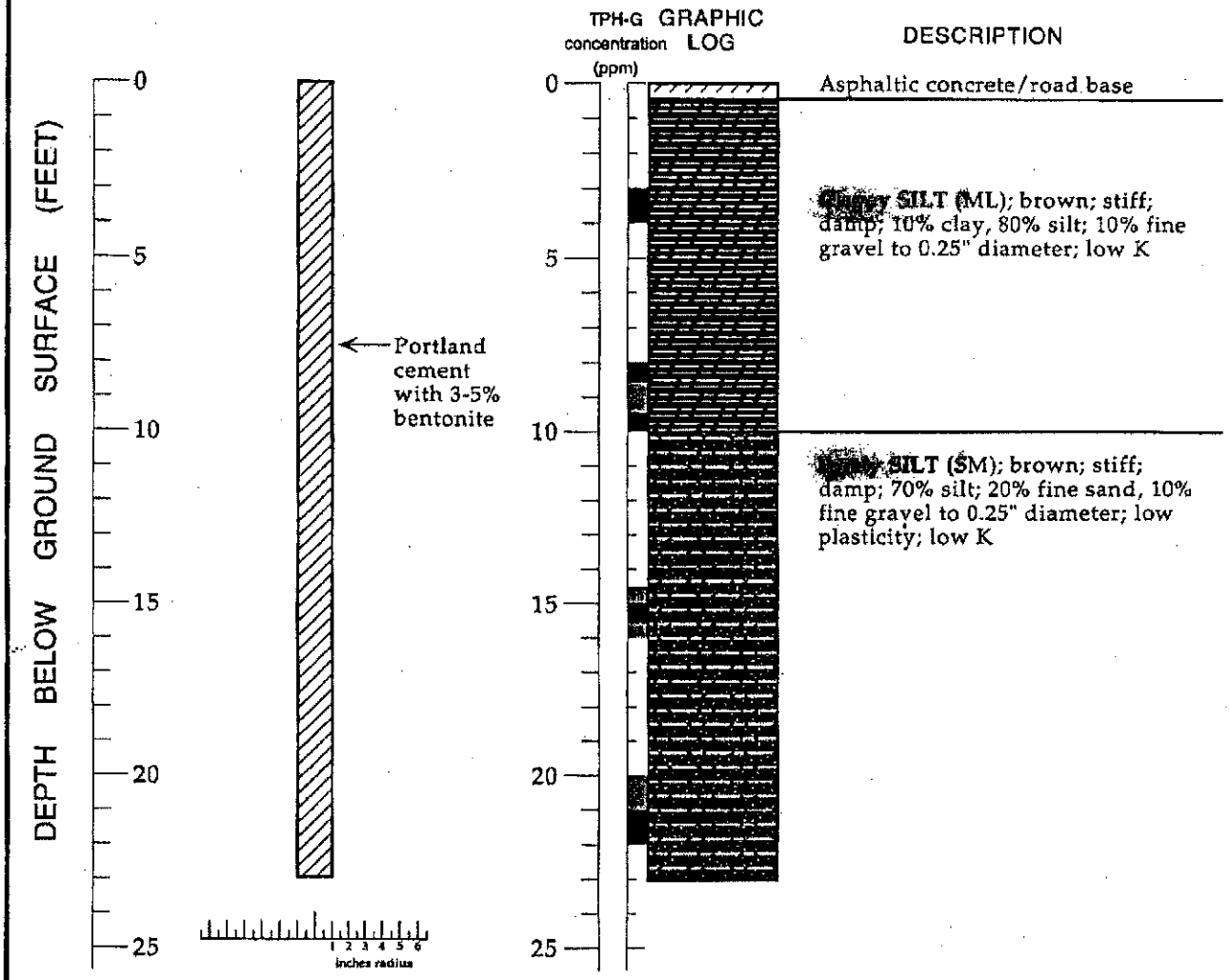
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-2 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-3



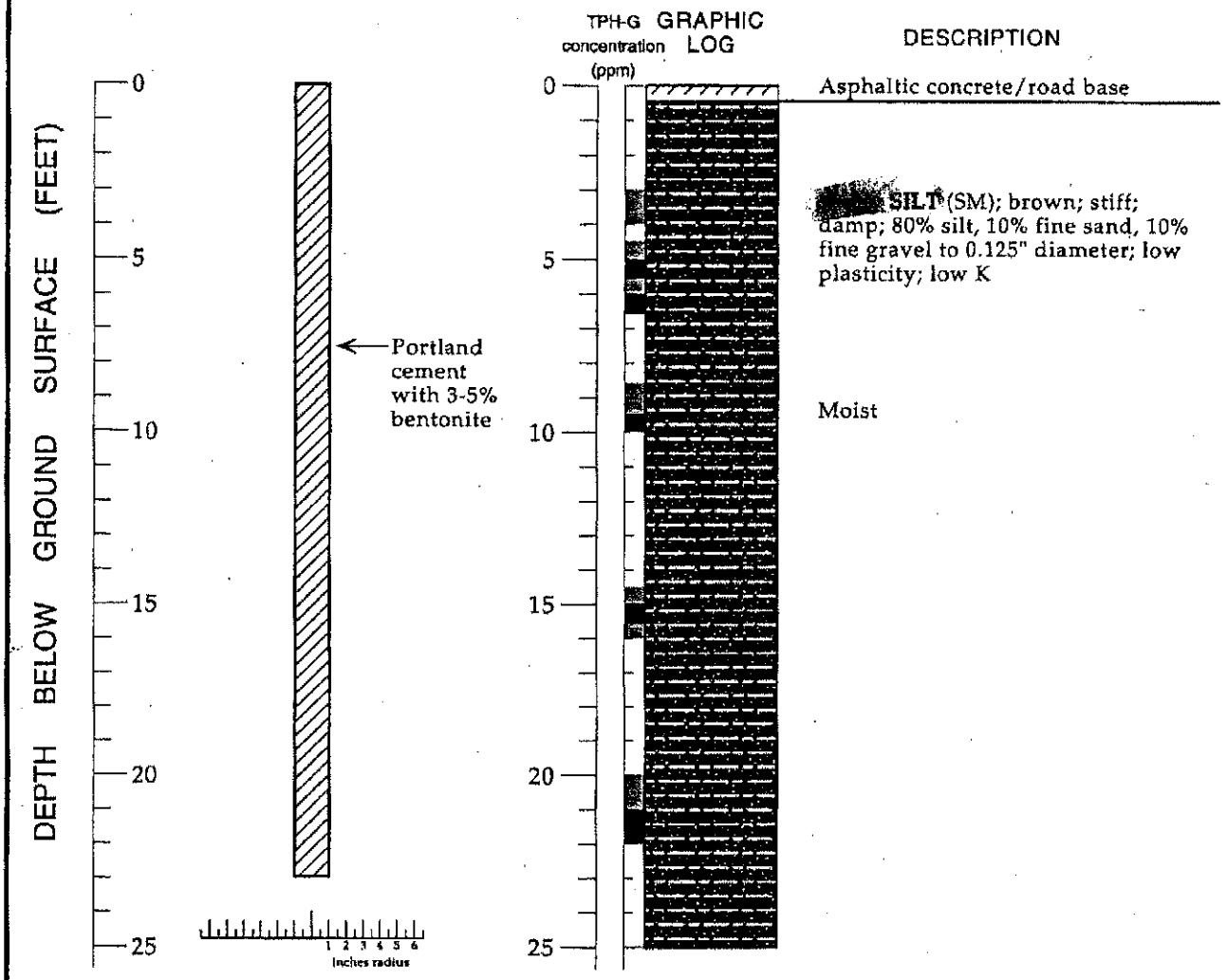
EXPLANATION

- ?▼ Water level during drilling (date)
- Contact (dotted where approximate)
- —?— Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 19, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-3 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-4



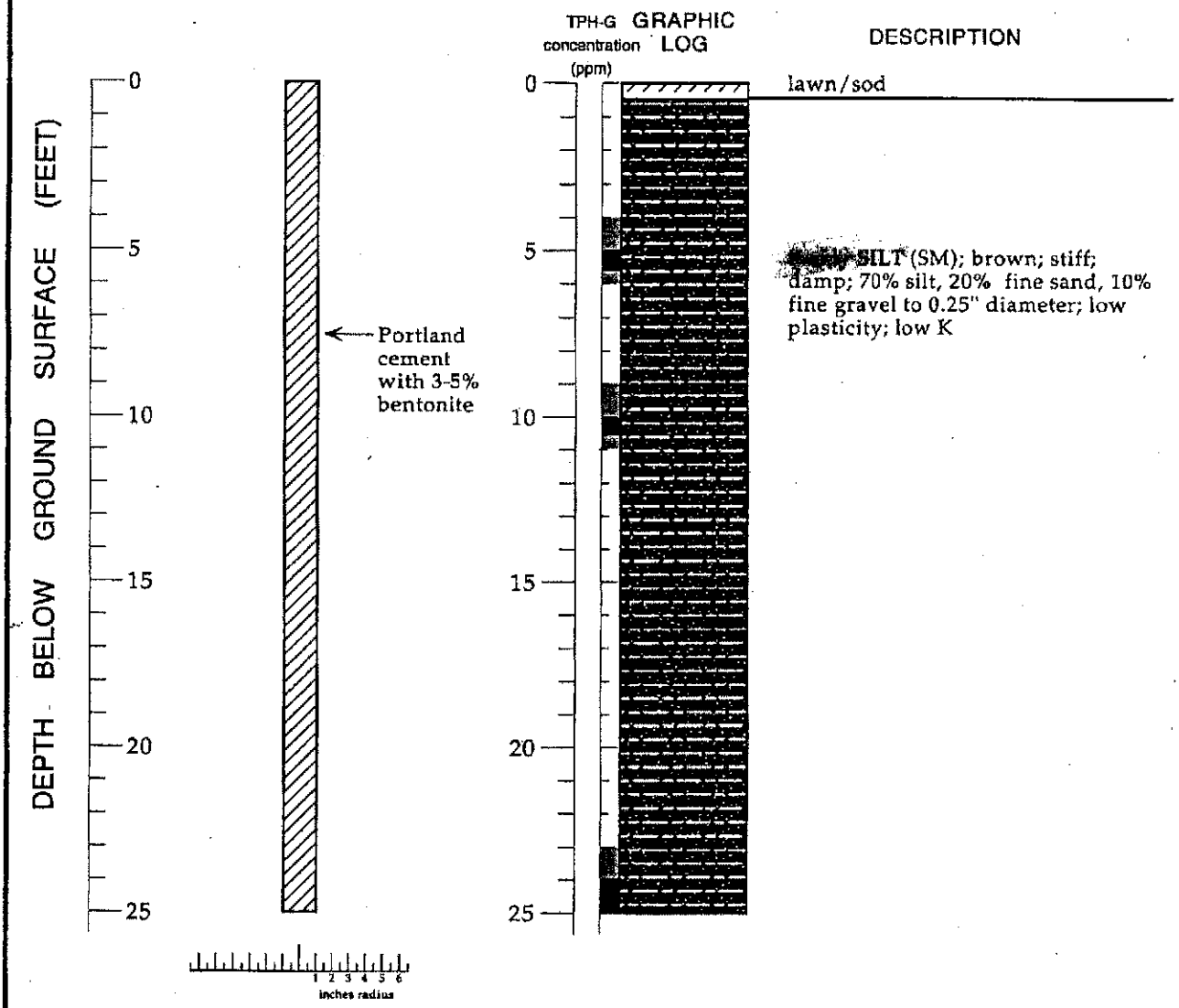
EXPLANATION

- Water level during drilling (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Paul Rogers
Drilling Method: Hollow-stem auger
Date Drilled: August 20, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-4 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-5



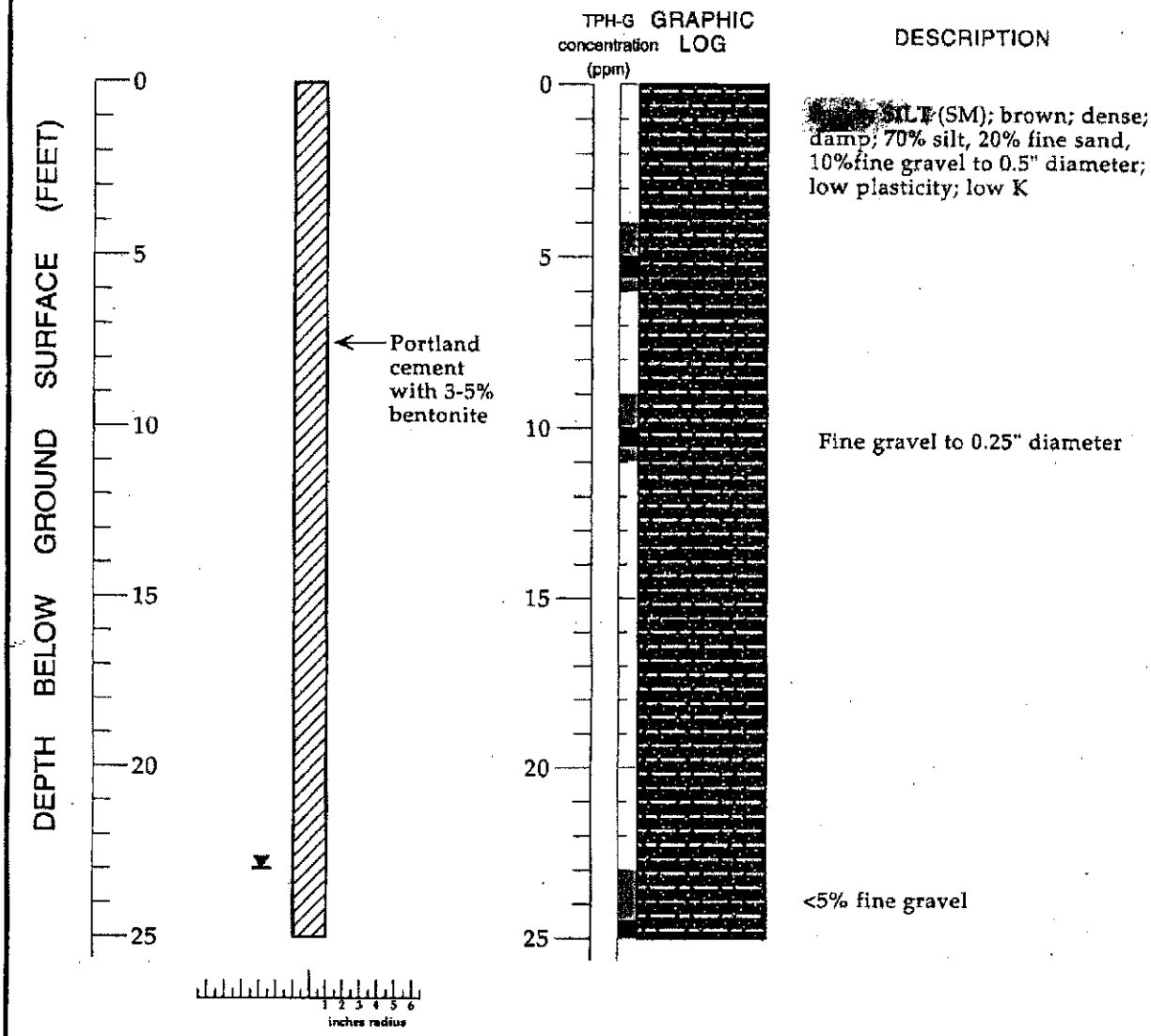
EXPLANATION

- Water level during drilling (date)
- Contact (dotted where approximate)
- —?—?— Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 20, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-5 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-6



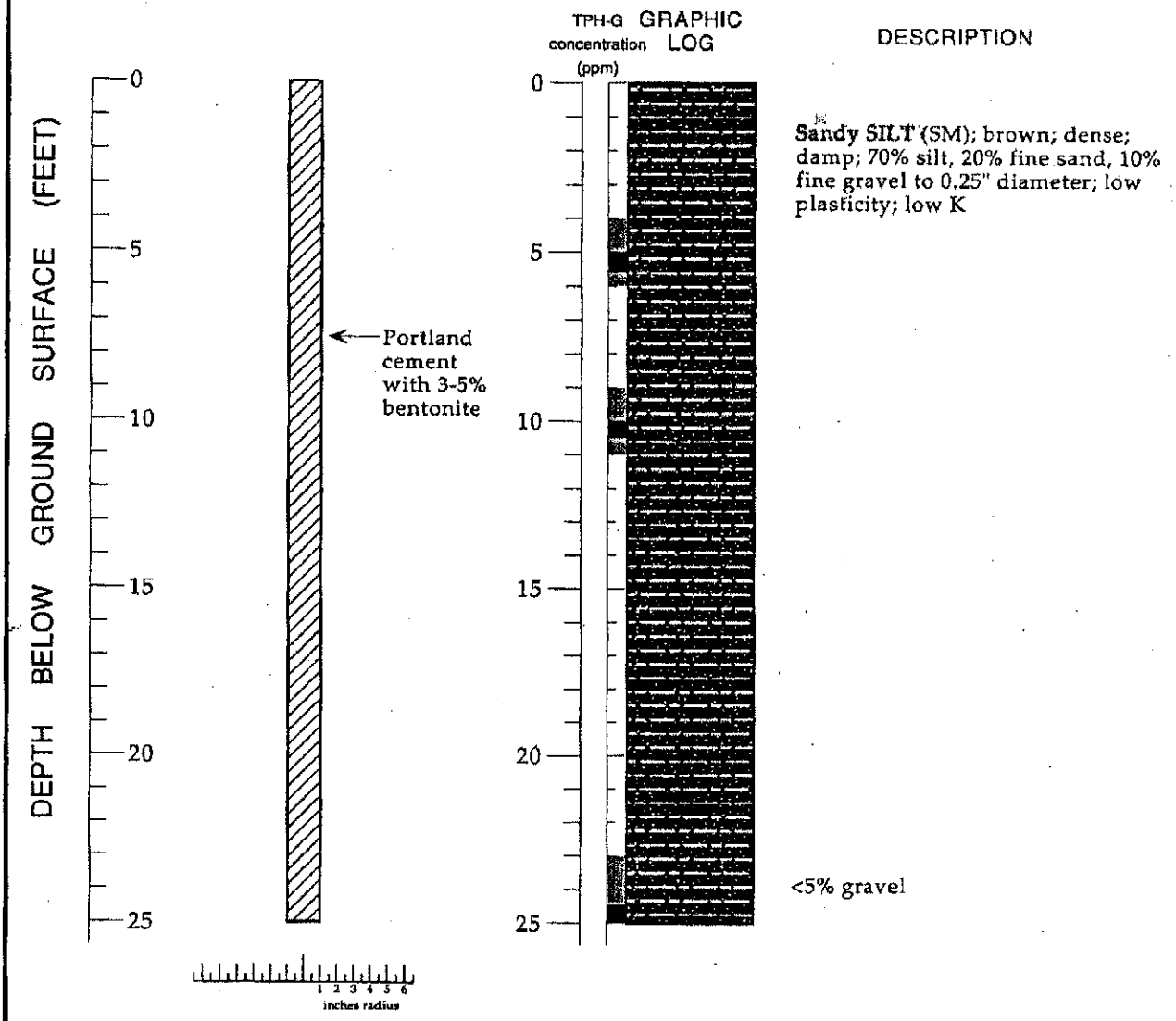
EXPLANATION

- ?▼ Water level during drilling (date)
- ..... Contact (dotted where approximate)
- — —?— Uncertain contact
- ////////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 20, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-6 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-7



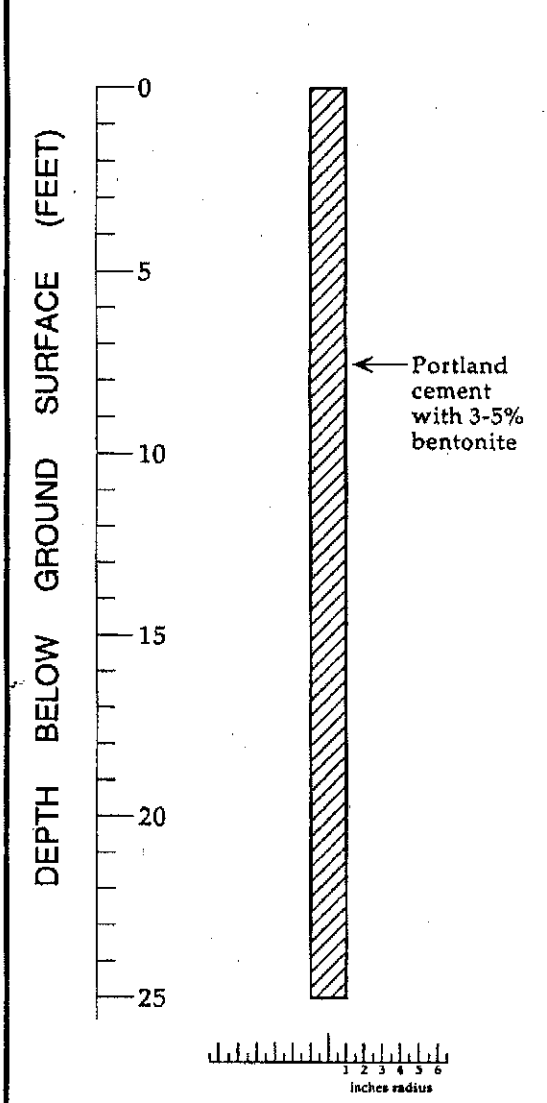
EXPLANATION

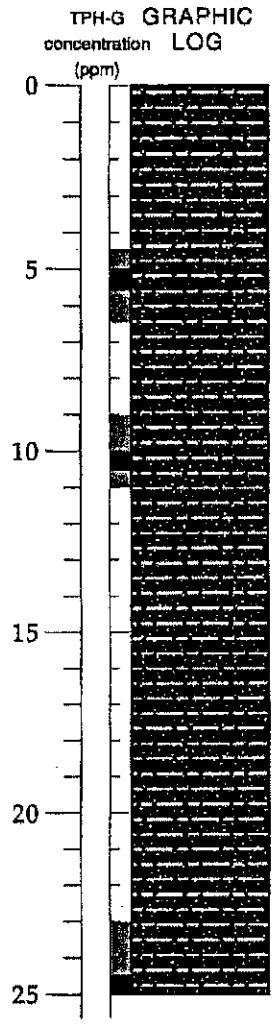
- ?▼ Water level during drilling (date)
- Contact (dotted where approximate)
- — —?— Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 20, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-7 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

SAMPLE LOCATION SV-8





DESCRIPTION

Sandy SILT (SM); brown; stiff; dry; 80% silt, 10% fine sand, 10% fine gravel to 0.125" diameter; low plasticity; low K

60% silt, 30% sand, 10% fine gravel

Damp; 80% silt, 10% fine sand, 10% fine gravel

EXPLANATION

- ?▼ Water level during drilling (date)
- ····· Contact (dotted where approximate)
- — —?— Uncertain contact
- ////////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Brian Busch
Supervisor: Michael Cooke
Drilling Company: Gregg Drilling, Martinez, CA
License Number: C57-485165
Driller: Ted Hogan
Drilling Method: Hollow-stem auger
Date Drilled: August 20, 1996
Type of Sampler: Geoprobe sampler
Ground Surface Elevation: feet above mean sea level

Lithologic Log - Sample Location SV-8 - Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley, California

APPENDIX D

CURRENT AND HISTORICAL GROUNDWATER DATA

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
C-1	07/13/2010	283.46	17.50	265.96	4,500	180	27	57	42	<0.5	<50	8	<0.5	<0.5	<0.5	<0.5	<0.5
C-1	01/12/2011	283.46	16.72	266.74	2,100	100	10	9	9	<0.5	<50	3	<0.5	<0.5	<0.5	<0.5	<0.5
C-1	07/23/2011[1]	283.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-1	01/12/2012[1]	283.46	23.50	259.96	4,700	350	41	33	36	<0.5	<50	7	<0.5	<0.5	<0.5	<0.5	<0.5
C-1	**07/02/2012[1]**	**283.46**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
C-2	07/13/2010[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-2	01/12/2011	284.37	14.10	270.27	92	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-2	07/23/2011[1]	284.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-2	01/12/2012[1]	284.37	19.84	264.53	120	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-2	**07/02/2012[1]**	**284.37**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
C-3	07/13/2010	285.98	19.52	266.46	49,000	9,300	400	3,200	5,200	<3	<250	67	<3	<3	<3	<3	<3
C-3	01/12/2011	285.98	19.00	266.98	44,000	12,000	300	2,400	3,600	<10	<1,000	<40	<10	<10	<10	<10	<10
C-3	07/27/2011	285.98	21.34	264.64	48,000	11,000	240	2,800	2,200	<10	<1,000	80	<10	<10	<10	<10	<10
C-3	01/12/2012	285.98	25.69	260.29	46,000	9,000	390	3,100	3,100	<3	<250	83	<3	<3	<3	<3	3
C-3	**07/02/2012**	**285.98**	**21.71**	**264.27**	**44,000**	**9,100**	**320**	**2,800**	**1,800**	**<3**	**<250**	**75**	**<3**	**<3**	**<3**	**<3**	**<3**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
C-5	07/13/2010[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	01/12/2011	287.95	19.58	268.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	1	<0.5	<0.5	<0.5	<0.5
C-5	07/23/2011[1]	287.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	01/12/2012[1]	287.95	27.22	260.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	1	<0.5	<0.5	<0.5	<0.5
C-5	**07/02/2012[1]**	**287.95**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
C-6	07/13/2010	275.28	11.40	263.88	25,000	9,500	75	640	140	19	<250	79	<3	<3	<3	<3	<3
C-6	01/12/2011	275.28	11.10	264.18	27,000	12,000	120	960	270	16	<1,000	73	<10	<10	<10	<10	<10
C-6	07/23/2011	275.28	13.19	262.09	30,000	12,000	46	270	62	<25	<2,500	120	<25	<25	<25	<25	<25
C-6	01/12/2012	275.28	17.27	258.01	35,000	15,000	83	690	190	<25	<2,500	200	<25	<25	<25	<25	<25
C-6	**07/02/2012**	**275.28**	**14.21**	**261.07**	**24,000**	**9,400**	**82**	**780**	**280**	**15**	**<250**	**78**	**<3**	**<3**	**<3**	**<3**	**<3**
C-7	07/13/2010	270.70	5.22	265.48	120	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	0.5	<0.5	<0.5	<0.5	<0.5
C-7	01/12/2011	270.70	3.54	267.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	0.5	<0.5	<0.5	<0.5	<0.5
C-7	07/23/2011[1]	270.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-7	01/12/2012[1]	270.70	10.69	260.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-7	**07/02/2012[1]**	**270.70**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
C-8	07/13/2010[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-8	01/12/2011	288.40	5.35	283.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-8	07/23/2011[1]	288.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-8	01/12/2012[1]	288.40	10.71	277.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-8	**07/02/2012[1]**	**288.40**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
C-9	07/13/2010[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-9	01/12/2011	-	8.42	-	96	3	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-9	07/23/2011	-	10.40	-	88	0.6	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-9	01/12/2012	-	13.60	-	180	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-9	**07/02/2012**	**-**	**11.43**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
C-11	07/13/2010	265.30	17.64	247.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-11	01/12/2011	265.30	15.52	249.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-11	07/23/2011[1]	265.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-11	01/12/2012[1]	265.30	20.18	245.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-11	**07/02/2012[1]**	**265.30**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
C-12	07/13/2010	269.66	8.72	260.94	700	16	<0.5	0.7	2	0.6	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-12	01/12/2011	269.66	8.38	261.28	5,500	98	0.6	9	22	<0.5	<50	<2	<0.5	<0.5	<0.5	0.6	<0.5
C-12	07/23/2011	269.66	9.36	260.30	1,400	17	<0.5	2	2	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-12	01/12/2012	269.66	12.81	256.85	890	26	<0.5	1	2	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-12	**07/02/2012**	**269.66**	**10.51**	**259.15**	**1,200**	**10**	**<0.5**	**3**	**0.7**	**<0.5**	**<50**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
C-13	07/13/2010	284.32	8.91	275.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-13	01/12/2011	284.32	8.41	275.91	610	2	<0.5	8	0.8	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-13	07/23/2011	284.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-13	01/12/2012	284.32	10.69	273.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-13	**07/02/2012[1]**	**284.32**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
C-14	07/13/2010[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-14	01/12/2011[2]	270.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-14	07/23/2011[2]	270.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-14	01/12/2012[2]	270.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-14	**07/02/2012[2]**	**270.74**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
C-16	07/13/2010[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-16	01/12/2011	246.69	11.47	235.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-16	07/23/2011[1]	246.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-16	01/12/2012[1]	246.69	13.10	233.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5
C-16	**07/02/2012[1]**	**246.69**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
RW-1	06/29/2012	274.52	14.20	260.32	-	-	-	-	-	-	-	-	-	-	-	-	-
RW-1	**07/02/2012**	**274.52**	**14.15**	**260.37**	**17,000**	**6,800**	**58**	**690**	**220**	**12**	**<100**	**64**	**<1**	**<1**	**<1**	**<1**	**<1**
QA	07/13/2010	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	01/12/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	07/23/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	07/27/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	01/12/2012	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	**07/02/2012**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON RD
CASTRO VALLEY, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*ADDITIONAL VOCS*						
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,2-DCA*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

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 = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-butyl ethyl ether

TAME = Tert-amyl methyl ether

EDB = 1,2-Dibromoethane (Ethylene dibromide)

1,2-EDC = 1,2-Dichloroethane

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

* TOC elevations

** GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Sampled annually

2 Removed from monitoring/sampling schedule

3 Not able to access well due to bee hive 2 feet from well

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-1											
03/26/85	283.46	260.63	22.83	--	--	--	--	--	--	--	--
07/03/86	283.46	259.88	23.58	--	--	--	--	--	--	--	--
03/26/87	283.46	262.96	20.50	--	--	--	--	--	--	--	--
03/28/88	283.46	257.46	26.00	--	--	--	--	--	--	--	--
03/10/89	283.46	267.60	15.86	--	--	--	--	--	--	--	--
04/03/89	283.46	266.61	16.85	--	--	--	--	--	--	--	--
05/08/89	283.46	260.78	22.68	--	--	--	--	--	--	--	--
06/05/89	283.46	258.80	24.66	--	--	--	--	--	--	--	--
07/12/90	283.46	257.90	25.56	--	--	--	--	--	--	--	--
08/10/90	283.46	257.57	25.89	--	--	--	--	--	--	--	--
09/13/89	283.46	256.91	26.55	--	--	22,000	3,600	1,100	1,000	3,500	--
10/04/89	283.46	258.22	25.24	--	--	--	--	--	--	--	--
11/03/89	283.46	258.43	25.03	--	--	--	--	--	--	--	--
12/04/89	283.46	257.09	26.37	--	--	13,000	2,000	550	610	1,600	--
03/07/90	283.46	260.98	22.48	--	--	--	--	--	--	--	--
03/09/90	283.46	--	--	--	--	--	--	--	--	--	--
06/12/90	283.46	259.11	24.35	--	--	21,000	3,500	1,400	840	4,000	--
09/20/90	283.46	257.19	26.27	--	--	23,000	2,100	1,200	860	5,000	--
12/20/90	283.46	260.87	22.59	--	--	8,200	760	410	260	1,100	--
03/27/91	283.46	264.38	19.08	--	--	--	--	--	--	--	--
06/18/91	283.46	256.35	27.11	--	--	--	--	--	--	--	--
09/12/91	283.46	255.24	28.22	--	--	--	--	--	--	--	--
01/23/92	283.46	256.81	26.65	--	--	--	--	--	--	--	--
04/13/92	283.46	261.30	22.16	--	--	38,000	3,100	1,300	850	3,100	--
08/03/92	283.46	257.31	26.15	--	--	13,000	3,100	1,300	850	3,100	--
10/22/92	283.46	256.67	26.79	--	--	24,000	3,500	1,400	1,500	4,300	--
01/18/93	283.46	264.86	18.60	--	--	370,000	6,900	8,900	3,100	23,000	--
04/19/93	283.46	262.34	21.12	--	--	51,000	8,000	7,000	1,400	10,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-1 (cont)											
07/21-22/93	283.46	260.18	23.28	--	--	22,000	3,400	1,000	990	3,100	--
10/25/93	283.46	258.80	24.66	--	--	14,000	2,000	550	790	2,300	--
01/21/94	283.46	262.99	20.47	--	--	1,100	350	6.0	3.0	15	--
04/18/94	283.46	260.36	23.10	--	--	24,000	3,200	1,000	1,000	3,100	--
07/06-07/94	283.46	260.56	22.90	--	--	65,000	6,500	4,200	1,600	9,300	--
10/07/94	283.46	258.75	24.71	--	--	27,000	5,100	1,200	1,400	4,300	--
01/11/95	283.46	265.16	18.30	--	--	29,000	1,300	1,200	930	4,000	--
04/24/95	283.46	266.52	16.94	--	--	75,000	8,900	5,000	1,700	8,400	--
07/31/95	283.46	262.90	20.56	--	--	56,000	11,000	2,600	2,500	11,000	--
10/02/95	283.46	272.88	10.58	--	--	44,000	7,900	1,100	2,100	6,500	--
01/16/96	283.46	261.71	21.75	--	--	29,000	5,300	460	1,000	2,800	<500
04/18/96	283.46	264.51	18.95	--	--	59,000	7,100	3,000	2,000	7,600	<250
07/22/96	283.46	262.46	21.00	--	--	26,000	6,100	610	1,800	4,700	<250
10/10/96	283.46	261.46	22.00	--	--	24,000	7,100	600	1,700	3,200	<250
01/09/97	283.46	268.05	15.41	--	--	32,000	4,600	820	1,500	4,000	670
04/15/97	283.46	264.12	19.34	--	--	100,000	11,000	4,500	3,200	13,000	1,700/<200[1]
07/08/97	283.46	263.68	19.78	--	--	42,000	5,500	880	2,000	4,800	920
10/22/97	283.46	265.13	18.33	--	--	29,000	5,200	970	1,800	4,200	740
01/12/98	283.46	271.81	11.65	--	--	31,000	2,700	960	2,100	5,700	<1000
04/21/98	283.46	271.17	12.29	--	--	60,000	3,300	2,100	3,100	10,000	1,400
07/08/98	283.46	264.89	18.57	--	--	33,000	4,400	1,500	2,800	8,200	<250
10/13/98	283.46	262.11	21.35	--	--	27,000	3,900	580	2,000	4,200	210
01/27/99	283.46	262.91	20.55	--	--	1,220	126	21.9	1.6	163	10.3
04/27/99	283.46	265.81	17.65	--	--	21,300	1,720	226	1,230	2,060	<500
07/23/99	283.46	264.00	19.46	--	--	17,200	1,440	257	1,070	1,960	<500
11/01/99	283.46	264.53	18.93	--	--	45,700	4,020	1,280	2,690	8,140	1,250
01/20/00	283.46	262.62	20.84	--	--	18,000	2,110	354	1,340	2,330	<500
04/28-29/00	283.46	265.61	17.85	0.00	--	8,300[3]	1,300	470	370	1,300	<130

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-1 (cont)											
07/21/00	283.46	264.57	18.89	0.00	--	18,000[3]	3,100	1,200	1,600	5,700	1,100
10/09-10/00	283.46	263.38	20.08	0.00	--	31,800[5]	3,280	<50.0	2,230	6,800	<250
01/08-09/01	283.46	262.95	20.51	0.00	--	43,700[5]	3,160	1,250	2,580	7,140	1,100
04/30/01	283.46	265.37	18.09	0.00	--	41,600[3]	3,060	791	2,380	6,260	<1,000
07/09-10/01	283.46	263.78	19.68	0.00	--	27,000[3]	2,500	480	1,900	5,100	1,900
10/10/01	283.46	263.49	19.97	0.00	--	28,000	1,900	320	1,500	4,000	170
01/07/02	283.46	266.91	16.55	0.00	--	7,100	640	47	570	430	64
04/11/02	283.46	265.94	17.52	0.00	--	9,000	730	80	720	740	<50
07/11/02	283.46	265.48	17.98	0.00	--	12,000	1,000	150	810	930	<25
10/30/02	283.46	263.58	19.88	0.00	--	26,000	1,800	540	1,900	3,400	<100
01/29/03	283.46	267.03	16.43	0.00	--	16,000	910	250	1,100	2,200	<20/2[11]
04/18/03	283.46	267.53	15.93	0.00	--	4,100	190	35	170	380	<10
07/18/03[14]	283.46	265.89	17.57	0.00	--	14,000	970	150	83	1,100	2
10/17/03[14]	283.46	264.14	19.32	0.00	--	20,000	1,300	270	1,600	1,300	<2
01/20/04[14]	283.46	266.43	17.03	0.00	--	3,000	170	20	190	180	<0.5
04/09/04[14]	283.46	266.68	16.78	0.00	--	13,000	1,200	210	910	1,400	2
07/09/04[14]	283.46	264.76	18.70	0.00	--	6,500	680	66	450	250	<1
10/29/04[14]	283.46	265.40	18.06	0.00	--	830	41	6	55	38	<0.5
02/25/05[14]	283.46	267.40	16.06	0.00	--	1,200	76	14	86	98	<0.5
05/27/05[14]	283.46	266.94	16.52	0.00	--	7,200	440	100	500	560	<0.5
07/15/05[14]	283.46	266.47	16.99	0.00	--	5,700	360	59	320	370	0.7
10/14/05[14]	283.46	263.20	20.26	0.00	--	11,000	630	110	680	300	<1
01/12/06[14]	283.46	267.42	16.04	0.00	--	860	60	12	110	44	<0.5
04/20/06[14]	283.46	268.81	14.65	0.00	--	7,100	240	71	630	390	<0.5
07/20/06[14]	283.46	265.71	17.75	0.00	--	6,000	600	55	380	180	0.5
10/06/06[14]	283.46	263.43	20.03	0.00	--	4,800	280	70	410	170	0.7
01/17/07[14]	283.46	263.94	19.52	0.00	--	5,400	280	62	350	150	<0.5
04/25/07[14]	283.46	265.35	18.11	0.00	--	8,400	340	80	620	170	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-1 (cont)											
07/27/07[14]	283.46	261.84	21.62	0.00	--	8,400	610	110	500	260	<1
10/15/07[14]	283.46	263.02	20.44	0.00	--	2,300	60	11	53	24	<0.5
01/07/08[14]	283.46	264.94	18.52	0.00	--	1,800	100	17	100	34	<0.5
04/04/08[14]	283.46	265.34	18.12	0.00	--	4,700	370	58	390	130	<0.5
07/09/08[14]	283.46	262.23	21.23	0.00	--	6,800	490	78	430	130	<1
10/31/08[14]	283.46	260.67	22.79	0.00	--	5,700	430	61	400	110	<1
01/08/09[14]	283.46	263.74	19.72	0.00	--	2,000	88	8	47	9	<0.5
04/24/09[14]	283.46	264.90	18.56	0.00	--	4,000	170	21	140	41	<0.5
07/15/09[14]	283.46	261.98	21.48	0.00	--	8,100	550	65	460	120	0.5
10/20/09	283.46	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	283.46	264.52	18.94	0.00	--	3,000	160	16	38	19	<0.5
04/12/10	**283.46**	**MONITORED/SAMPLED SEMI-ANNUALLY**			--	--	--	--	--	--	--
C-2											
03/26/85	284.37	--	--	--	--	--	--	--	--	--	--
07/03/86	284.37	264.68	19.69	--	--	--	--	--	--	--	--
03/26/87	284.37	268.92	15.45	--	--	--	--	--	--	--	--
03/28/88	284.37	263.45	20.92	--	--	--	--	--	--	--	--
03/10/89	284.37	271.57	12.80	--	--	--	--	--	--	--	--
04/03/89	284.37	270.11	14.26	--	--	--	--	--	--	--	--
05/08/89	284.37	265.95	18.42	--	--	--	--	--	--	--	--
06/05/89	284.37	264.28	20.09	--	--	--	--	--	--	--	--
07/12/90	284.37	263.58	20.79	--	--	--	--	--	--	--	--
08/10/90	284.37	262.97	21.40	--	--	--	--	--	--	--	--
09/13/89	284.37	262.51	21.86	--	--	320	62	4.0	10	14	--
10/04/89	284.37	264.48	19.89	--	--	--	--	--	--	--	--
11/03/89	284.37	263.61	20.76	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2 (cont)											
12/04/89	284.37	263.55	20.82	--	--	1,000	240	37	66	130	--
03/07/90	284.37	266.54	17.83	--	--	--	--	--	--	--	--
03/09/90	284.37	266.54	17.83	--	--	390	280	35	27	50	--
06/12/90	284.37	264.48	19.89	--	--	700	260	34	28	55	--
09/20/90	284.37	262.40	21.97	--	--	--	--	--	--	--	--
12/20/90	284.37	266.64	17.73	--	--	--	--	--	--	--	--
03/27/91	284.37	269.27	15.10	--	--	--	--	--	--	--	--
06/18/91	284.37	261.69	22.68	--	--	--	--	--	--	--	--
09/12/91	284.37	260.45	23.92	--	--	--	--	--	--	--	--
01/23/92	284.37	263.13	21.24	--	--	--	--	--	--	--	--
04/13/92	284.37	266.83	17.54	--	--	1,100	120	76	17	72	--
08/03/92	284.37	262.32	22.05	--	--	--	--	--	--	--	--
10/22/92	284.37	261.34	23.03	--	--	--	--	--	--	--	--
01/18/93	284.37	269.51	14.86	--	--	70	6.4	ND	ND	ND	--
04/19/93	284.37	267.57	16.80	--	--	--	--	--	--	--	--
07/21-22/93	284.37	265.12	19.25	--	--	--	--	--	--	--	--
10/25/93	284.37	264.72	19.65	--	--	--	--	--	--	--	--
07/06-07/94	284.37	265.61	18.76	--	--	--	--	--	--	--	--
10/07/94	284.37	264.20	20.17	--	--	--	--	--	--	--	--
01/11/95	284.37	270.33	14.04	--	--	780	290	9.1	19	58	--
04/24/95	284.37	272.03	12.34	--	--	SAMPLED ANNUALLY		--	--	--	--
07/31/95	287.37	266.82	17.55	--	--	--	--	--	--	--	--
10/02/95	284.37	265.39	18.98	--	--	--	--	--	--	--	--
01/16/96	284.37	268.37	16.00	--	--	260	29	2.9	5.7	21	6.1
04/18/96	284.37	270.47	13.90	--	--	--	--	--	--	--	--
07/22/96	284.37	266.63	17.74	--	--	--	--	--	--	--	--
10/10/96	284.37	265.46	18.91	--	--	--	--	--	--	--	--
01/09/97	284.37	271.62	12.75	--	--	460	25	15	72	24	6.3

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2 (cont)											
04/15/97	284.37	268.32	16.05	--	--	--	--	--	--	--	--
07/08/97	284.37	267.95	16.42	--	--	--	--	--	--	--	--
10/22/97	284.37	268.95	15.42	--	--	--	--	--	--	--	--
01/12/98	284.37	272.85	11.52	--	--	280	22	1.4	5.3	1.2	13
04/21/98	284.37	274.22	10.15	--	--	--	--	--	--	--	--
07/08/98	284.37	268.29	16.08	--	--	--	--	--	--	--	--
10/13/98	284.37	265.40	18.97	--	--	--	--	--	--	--	--
01/27/99	284.37	268.52	15.85	--	--	153	4.83	0.628	<0.5	<0.5	4.73
04/27/99	284.37	270.11	14.26	--	--	--	--	--	--	--	--
07/23/99	284.37	268.99	15.38	--	--	--	--	--	--	--	--
11/01/99	284.37	266.74	17.63	--	--	--	--	--	--	--	--
01/20/00	284.37	266.92	17.45	--	--	201	9.68	<0.5	7.32	4.78	<5.0
04/28-29/00	284.37	269.86	14.51	0.00	--	SAMPLED ANNUALLY		--	--	--	--
07/21/00	284.37	269.30	15.07	0.00	--	--	--	--	--	--	--
10/09-10/00	284.37	266.54	17.83	0.00	--	--	--	--	--	--	--
01/08-09/01	284.37	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/01	284.37	269.86	14.51	0.00	--	--	--	--	--	--	--
07/09-10/01	284.37	268.82	15.55	0.00	--	--	--	--	--	--	--
10/10/01	284.37	268.81	15.56	0.00	--	SAMPLED ANNUALLY		--	--	--	--
01/07/02	284.37	271.30	13.07	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	284.37	269.77	14.60	0.00	--	--	--	--	--	--	--
07/11/02	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/30/02	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03	284.37	270.78	13.59	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[11]
04/18/03	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/18/03	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/17/03	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04[14]	284.37	270.42	13.95	0.00	--	79	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2 (cont)											
04/09/04	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/04	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/29/04	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05[14]	284.37	271.33	13.04	0.00	--	97	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/05	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/14/05	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06[14]	284.37	271.17	13.20	0.00	--	160	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/20/06	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/06/06	284.37	267.38	16.99	0.00	--	--	--	--	--	--	--
01/17/07[14]	284.37	268.16	16.21	0.00	--	190	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/27/07	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/15/07	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/07/08[14]	284.37	268.85	15.52	--	--	2,300	180	2	2	3	<0.5
04/04/08	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/08	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/31/08	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/08/09[14]	284.37	267.82	16.55	0.00	--	110	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/09	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/20/09	284.37	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	284.37	268.29	16.08	0.00	--	170	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**284.37**	**MONITORED/SAMPLED ANNUALLY**			--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3											
03/26/85	285.98	--	--	--	--	--	--	--	--	--	--
07/03/86	285.98	259.94	26.04	--	--	--	--	--	--	--	--
03/26/87	285.98	260.34	25.64	--	--	--	--	--	--	--	--
03/28/88	285.98	257.16	28.82	--	--	--	--	--	--	--	--
03/10/89	285.98	263.20	22.78	--	--	--	--	--	--	--	--
04/03/89	285.98	263.27	22.71	--	--	--	--	--	--	--	--
05/08/89	285.98	260.03	25.95	--	--	--	--	--	--	--	--
06/05/89	285.98	258.36	27.62	--	--	--	--	--	--	--	--
07/12/90	285.98	257.69	28.29	--	--	--	--	--	--	--	--
08/10/90	285.98	257.52	28.46	--	--	--	--	--	--	--	--
09/13/89	285.98	256.65	29.33	--	--	60,000	1,400	6,800	2,300	10,000	--
10/04/89	285.98	257.01	28.97	--	--	--	--	--	--	--	--
11/03/89	285.98	257.26	28.72	--	--	--	--	--	--	--	--
12/04/89	285.98	256.97	29.01	--	--	56,000	1,300	3,300	1,400	2,700	--
03/07/90	285.98	258.29	27.69	--	--	--	--	--	--	--	--
03/09/90	285.98	258.29	27.69	--	--	42,000	1,100	5,700	1,600	7,900	--
06/12/90	285.98	257.89	28.09	--	--	160,000	1,400	7,100	3,400	16,000	--
09/24/90	285.98	256.80	29.18	--	--	53,000	850	7,700	2,000	10,000	--
12/20/90	285.98	257.71	28.27	--	--	520	1,200	5,400	5,400	33,000	--
03/27/91	285.98	261.18	24.80	--	--	92,000	1,300	3,100	1,200	11,000	--
06/18/91	285.98	255.14	30.84	--	--	--	--	--	--	--	--
09/12/91	285.98	254.34	31.64	0.03	--	--	--	--	--	--	--
01/23/92	285.98	255.46	30.52	Sheen	--	--	--	--	--	--	--
04/13/92	285.98	259.04	26.94	0.01	--	--	--	--	--	--	--
08/03/92	285.98	255.98	30.00	--	--	220,000	1,300	2,800	3,100	17,000	--
10/22/92	285.98	255.38**	30.62	0.03	--	--	--	--	--	--	--
01/18/93	285.98	262.07	23.91	--	--	1,000,000	2,400	5,300	10,000	61,000	--
04/19/93	285.98	260.98	25.00	--	--	94,000	33,000	22,000	1,600	9,200	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
07/21-22/93	285.98	259.43	26.55	--	--	44,000	2,600	5,500	1,300	6,900	--
10/25/93	285.98	257.26	28.72	--	--	35,000	3,900	2,400	1,100	6,600	--
01/21/94	285.98	256.32	29.66	--	--	120,000	4,200	2,200	2,000	11,000	--
04/18/94	285.98	259.24	26.74	--	--	29,000	1,200	310	520	2,000	--
07/06-07/94	285.98	259.62	26.36	--	--	84,000	2,700	1,400	1,400	9,700	--
10/07/94	285.98	257.49	28.49	--	--	40,000	1,600	390	1,200	6,100	--
01/11/95	285.98	262.84	23.14	--	--	34,000	4,200	910	720	3,800	--
04/24/95	285.98	266.10	19.88	--	--	210,000	43,000	28,000	2,400	13,000	--
07/31/95	285.98	261.30	24.68	--	--	110,000	33,000	17,000	2,300	12,000	--
10/02/95	285.98	258.84	27.14	--	--	69,000	6,700	4,000	2,000	11,000	--
01/16/96	285.98	261.60	24.38	--	--	40,000	2,400	440	1,200	5,500	<500
04/18/96	285.98	265.28	20.70	--	--	66,000	26,000	17,000	2,200	12,000	1,250
07/22/96	285.98	261.32	24.66	--	--	69,000	21,000	8,800	1,800	9,900	<1000
10/10/96	285.98	260.75	25.23	--	--	53,000	12,000	2,600	1,900	9,300	<500
01/09/97	285.98	267.74	18.24	--	--	73,000	17,000	6,000	1,700	7,800	<1250
04/15/97	285.98	263.96	22.02	--	--	160,000	28,000	17,000	2,600	12,000	<2500
07/08/97	285.98	263.04**	22.96	0.03	--	--	--	--	--	--	--
10/22/97	285.98	264.08	21.90	--	--	59,000	13,000	5,200	2,100	11,000	1,500
01/12/98	285.98	277.93	8.05	--	--	62,000	10,000	4,100	1,700	8,000	1,000
04/21/98	285.98	270.70	15.28	--	--	70,000	13,000	5,800	1,600	7,100	<1000
07/08/98	285.98	264.83	21.15	--	--	22,000	7,300	2,100	560	2,900	<25
10/13/98	285.98	268.38	17.60	--	--	390	32	4.8	26	42	2.9
01/27/99	285.98	262.31	23.67	--	--	57,100	18,400	2,440	1,660	8,690	<200
04/27/99	285.98	265.98	20.00	--	--	121,000	22,500	11,500	2,970	14,500	<2000
07/23/99	285.98	255.45**	31.09	0.70	--	--	--	--	--	--	--
11/01/99	285.98	255.45	21.03	--	--	138,000	23,900	14,700	3,970	18,400	1,180
01/20/00	285.98	262.72	23.26	--	--	135,000	20,700	9,870	2,840	13,600	<5000
04/28-29/00	285.98	265.63	20.35	0.00	--	120,000[3]	24,000	11,000	2,700	14,000	2,100

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
07/21/00	285.98	265.34	20.64	0.00	--	93,000[3]	24,000	11,000	3,100	15,000	2,000
10/09-10/00	285.98	264.35	21.63	0.00	--	83,400[5]	21,400	7,130	2,160	12,000	<2,500
01/08-09/01	285.98	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/01	285.98	265.65	20.33	0.00	--	104,000[3]	20,800	6,170	2,370	12,800	<2,500
07/09-10/01	285.98	264.53	21.45	0.00	--	81,000[3]	19,000	6,200	2,800	14,000	2,600
10/10/01	285.98	264.70	21.28	0.00	--	90,000	18,000	4,200	1,900	13,000	<50
01/07/02	285.98	267.25	18.73	0.00	--	70,000	15,000	1,300	2,400	15,000	200
04/11/02	285.98	265.85	20.13	0.00	--	71,000	17,000	660	1,600	10,000	<50
07/11/02	285.98	265.41**	20.67	0.12	0.26[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/30/02	285.98	264.46**	21.58	0.07	2.20[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
01/29/03	285.98	267.08**	18.95	0.06	2.63[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/18/03	285.98	267.38**	18.65	0.06	1.54[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
07/18/03	285.98	265.80**	20.25	0.09	3.05[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/17/03	285.98	264.64**	21.70	0.45	1.68[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
01/20/04	285.98	266.46**	19.55	0.04	0.51[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/09/04	285.98	266.53**	19.49	0.05	2.01[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
07/09/04	285.98	264.70**	21.32	0.05	3.02[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/29/04	285.98	263.67**	22.34	0.04	2.01[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
02/25/05	285.98	267.47**	18.55	0.05	2.01[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
05/27/05	285.98	267.30**	18.71	0.04	2.01[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
07/15/05	285.98	266.12**	19.90	0.05	2.51[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/14/05	285.98	263.50**	22.52	0.05	2.01[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
01/12/06	285.98	266.37**	19.66	0.06	0.35[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/20/06	285.98	269.21**	16.83	0.07	0.75[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
07/20/06	285.98	265.46**	20.54	0.03	0.14[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/06/06	285.98	263.73**	22.27	0.02	--[17]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
01/17/07	285.98	264.83**	21.17	0.03	0.26[10]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/25/07[14]	285.98	264.64	21.34	0.00	0.00	27,000	3,800	93	1,400	1,500	7

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
07/27/07[14]	285.98	262.22	23.76	0.00	0.00	56,000	9,900	660	2,800	7,300	<10
10/15/07[14]	285.98	262.80	23.18	0.00	0.00	51,000	9,600	480	2,700	7,300	<5
01/07/08[14]	285.98	263.87	22.11	0.00	0.00	34,000	7,800	180	2,800	2,400	<10
04/04/08[14]	285.98	264.78	21.20	0.00	0.00	26,000	5,000	80	1,800	1,100	5
07/09/08[14]	285.98	262.40	23.58	0.00	0.00	39,000	10,000	510	2,700	5,000	<5
10/31/08[14]	285.98	261.22	24.76	0.00	0.00	55,000	11,000	600	3,100	7,800	<13
01/08/09[14]	285.98	263.50	22.48	0.00	0.00	39,000	8,500	200	2,600	3,500	<5
04/24/09[14]	285.98	264.47	21.51	0.00	0.00	33,000	7,700	130	2,100	1,300	<5
07/15/09[14]	285.98	262.37	23.61	0.00	0.00	51,000	11,000	600	3,200	6,900	<5
10/20/09	285.98	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	285.98	264.42	21.56	0.00	0.00	42,000	9,600	180	2,500	2,600	<5
04/12/10	**285.98**	**MONITORED/SAMPLED SEMI-ANNUALLY**			**--**	**--**	**--**	**--**	**--**	**--**	**--**
C-5											
03/26/85	287.95	262.62	25.33	--	--	--	--	--	--	--	--
07/03/86	287.95	261.54	26.41	--	--	--	--	--	--	--	--
03/26/87	287.95	262.99	24.96	--	--	--	--	--	--	--	--
03/28/88	287.95	258.15	29.80	--	--	--	--	--	--	--	--
03/10/89	287.95	262.06	25.89	--	--	--	--	--	--	--	--
04/03/89	287.95	263.57	24.38	--	--	--	--	--	--	--	--
05/08/89	287.95	260.15	27.80	--	--	--	--	--	--	--	--
06/05/89	287.95	258.53	29.42	--	--	--	--	--	--	--	--
07/12/90	287.95	258.09	29.86	--	--	--	--	--	--	--	--
08/10/90	287.95	258.18	29.77	--	--	--	--	--	--	--	--
09/13/89	287.95	257.00	30.95	--	--	310	ND	ND	ND	ND	--
10/04/89	287.95	256.47	31.48	--	--	--	--	--	--	--	--
11/03/89	287.95	256.63	31.32	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-5 (cont)											
12/04/89	287.95	256.25	31.70	--	--	ND	ND	ND	ND	ND	--
03/07/90	287.95	257.67	30.28	--	--	--	--	--	--	--	--
03/09/90	287.95	257.67	30.28	--	--	ND	ND	ND	ND	ND	--
06/12/90	287.95	257.47	30.48	--	--	90	ND	ND	ND	ND	--
09/24/90	287.95	256.17	31.78	--	--	ND	ND	ND	ND	ND	--
12/20/90	287.95	254.66	33.29	--	--	170	ND	ND	1.0	0.7	--
03/27/91	287.95	259.97	27.98	--	--	--	--	--	--	--	--
06/18/91	287.95	255.43	32.52	--	--	--	--	--	--	--	--
09/12/91	287.95	254.58	33.37	--	--	--	--	--	--	--	--
01/23/92	287.95	255.28	32.67	--	--	--	--	--	--	--	--
04/13/92	287.95	259.47	28.48	--	--	140	ND	ND	0.7	ND	--
08/03/92	287.95	255.45	32.50	--	--	ND	ND	ND	ND	ND	--
10/22/92	287.95	253.97	33.98	--	--	--	--	--	--	--	--
01/18/93	287.95	260.93	27.02	--	--	230	6.6	2.2	3.4	2.2	--
04/19/93	287.95	263.14	24.81	--	--	--	--	--	--	--	--
07/21-22/93	287.95	258.89	29.06	--	--	130	ND	0.6	ND	ND	--
10/25/93	287.95	257.00	30.95	--	--	--	--	--	--	--	--
01/21/94	287.95	256.04	31.91	--	--	ND	ND	ND	ND	ND	--
04/18/94	287.95	257.80	30.15	--	--	--	--	--	--	--	--
07/06-07/94	287.95	258.91	29.04	--	--	ND	ND	ND	ND	ND	--
10/07/94	287.95	256.11	31.84	--	--	--	--	--	--	--	--
01/11/95	287.95	262.97	24.98	--	--	700	1.1	6.0	1.5	2.1	--
04/24/95	287.95	266.17	21.78	--	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/31/95	287.95	INACCESSIBLE		--	--	--	--	--	--	--	--
10/02/95	287.95	257.77	30.18	--	--	--	--	--	--	--	--
01/16/96	287.95	261.23	26.72	--	--	200	<0.5	<0.5	<0.5	1.3	<2.5
04/18/96	287.95	266.15	21.80	--	--	--	--	--	--	--	--
07/22/96	287.95	INACCESSIBLE		--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-5 (cont)											
10/10/96	287.95	261.17	26.78	--	--	--	--	--	--	--	--
01/09/97	287.95	268.93	19.02	--	--	190	0.630	<0.5	<0.5	<0.5	<2.5
04/15/97	287.95	264.64	23.31	--	--	--	--	--	--	--	--
07/08/97	287.95	INACCESSIBLE		--	--	--	--	--	--	--	--
10/22/97	287.95	INACCESSIBLE		--	--	--	--	--	--	--	--
01/12/98	287.95	269.37	18.58	--	--	200	1.10	0.570	1.30	2.5	<2.5
04/21/98	287.95	272.75	15.20	--	--	--	--	--	--	--	--
07/08/98	287.95	264.76	23.19	--	--	52[2]	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	287.95	261.95	26.00	--	--	--	--	--	--	--	--
01/27/99	287.95	263.97	23.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	287.95	267.29	20.66	--	--	--	--	--	--	--	--
07/23/99	287.95	266.73	21.22	--	--	80.7	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	287.95	268.22	19.73	--	--	--	--	--	--	--	--
01/20/00	287.95	263.93	24.02	--	--	82.5	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	287.95	267.84	20.11	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/21/00	287.95	267.95	20.00	0.00	--	--	--	--	--	--	--
07/26/00	287.95	267.86	20.09	0.00	--	66[3]	<0.50	<0.50	<0.50	<0.50	3.1
10/09-10/00	287.95	266.19	21.76	0.00	--	--	--	--	--	--	--
01/08-09/01	287.95	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/01	287.95	267.79	20.16	0.00	--	--	--	--	--	--	--
07/09-10/01	287.95	267.13	20.82	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/01	287.95	268.05	19.90	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
01/07/02	287.95	270.55	17.40	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	287.95	267.68	20.27	0.00	--	--	--	--	--	--	--
07/11/02	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/30/02	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03	287.95	268.44	19.51	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[11]
04/18/03	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-5 (cont)											
07/18/03	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/17/03	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04[14]	287.95	268.59	19.36	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/04	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/29/04	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05[14]	287.95	270.16	17.79	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/05	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/14/05	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06[14]	287.95	268.89	19.06	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/20/06	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/06/06	287.95	264.82	23.13	0.00	--	--	--	--	--	--	--
01/17/07[14]	287.95	264.26	23.69	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/27/07	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/15/07	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/07/08[14]	287.95	264.88	23.07	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/08	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/31/08	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/08/09[14]	287.95	264.08	23.87	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/09	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/20/09	287.95	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	287.95	264.98	22.97	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**287.95**	**MONITORED/SAMPLED ANNUALLY**			**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-6											
03/26/85	--	--	16.74	--	--	--	--	--	--	--	--
07/03/86	275.28	257.82	17.46	--	--	--	--	--	--	--	--
03/26/87	275.28	256.91	18.37	--	--	--	--	--	--	--	--
03/28/88	275.28	245.44	29.84	--	--	--	--	--	--	--	--
03/10/89	275.28	260.84	14.44	--	--	--	--	--	--	--	--
04/03/89	275.28	260.84	14.44	--	--	--	--	--	--	--	--
05/08/89	275.28	258.12	17.16	--	--	--	--	--	--	--	--
06/05/89	275.28	256.77	18.51	--	--	--	--	--	--	--	--
07/12/90	275.28	256.57	18.71	--	--	--	--	--	--	--	--
08/10/90	275.28	255.96	19.32	--	--	--	--	--	--	--	--
09/13/89	275.28	255.33	19.95	--	--	47	5,600	3,000	2,400	10,000	--
10/04/89	275.28	255.41	19.87	--	--	--	--	--	--	--	--
11/03/89	275.28	255.93	19.35	--	--	--	--	--	--	--	--
12/04/89	275.28	255.69	19.59	--	--	40,000	8,100	1,800	1,700	7,500	--
03/07/90	275.28	256.89	18.39	--	--	--	--	--	--	--	--
03/09/90	275.28	256.89	18.39	--	--	73,000	23,000	5,900	3,400	17,000	--
06/12/90	275.28	256.41	18.87	--	--	85,000	19,000	6,500	3,400	16,000	--
09/24/90	275.28	255.29	19.99	--	--	72,000	15,000	3,200	2,600	11,000	--
12/20/90	275.28	253.71	21.57	--	--	100,000	11,000	4,200	3,400	16,000	--
03/27/91	275.28	258.96	16.32	--	--	100,000	11,000	4,400	2,300	11,000	--
06/18/91	275.28	251.95	23.33	--	--	--	--	--	--	--	--
09/12/91	275.28	251.32	23.96	--	--	--	--	--	--	--	--
01/23/92	275.28	263.20	12.08	--	--	--	--	--	--	--	--
04/13/92	275.28	255.43	19.85	Sheen	--	--	--	--	--	--	--
08/03/92	275.28	260.56	14.72	--	--	120,000	16,000	1,100	2,300	15,000	--
10/22/92	275.28	260.37	14.91	--	--	63,000	7,400	920	1,800	14,000	--
01/18/93	275.28	259.84	15.44	--	--	77,000	13,000	1,600	2,700	12,000	--
04/19/93	275.28	266.03	9.25	--	--	56,000	14,000	1,100	2,400	9,100	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-6 (cont)											
07/21-22/93	275.28	257.93	17.35	--	--	38,000	6,600	610	1,500	5,800	--
10/25/93	275.28	254.25	21.03	--	--	42,000	11,000	800	2,200	8,200	--
01/21/94	275.28	253.71	21.57	--	--	57,000	11,000	940	2,300	9,800	--
04/18/94	275.28	257.17	18.11	--	--	48,000	9,800	830	1,900	7,500	--
07/06-07/94	275.28	258.28	17.00	--	--	46,000	6,800	610	900	6,200	--
10/07/94	275.28	256.09	19.19	--	--	35,000	5,900	410	1,400	3,800	--
01/11/95	275.28	256.64	18.64	--	--	54,000	1,200	1,100	2,100	9,500	--
04/24/95	275.28	262.72	12.56	--	--	81,000	12,000	1,500	2,400	9,900	--
07/31/95	275.28	259.54	15.74	--	--	75,000	12,000	1,200	2,800	11,000	--
10/02/95	275.28	257.56	17.72	--	--	59,000	13,000	990	2,800	10,000	--
01/16/96	275.28	259.81	15.47	--	--	63,000	10,000	650	2,200	7,500	<500
04/18/96	275.28	259.33	15.95	--	--	56,000	9,800	590	1,500	5,800	660
07/22/96	275.28	INACCESSIBLE		--	--	--	--	--	--	--	--
10/10/96	275.28	INACCESSIBLE		--	--	--	--	--	--	--	--
01/09/97	275.28	INACCESSIBLE		--	--	--	--	--	--	--	--
04/15/97	275.28	INACCESSIBLE		--	--	--	--	--	--	--	--
07/08/97	275.28	INACCESSIBLE		--	--	--	--	--	--	--	--
07/15/97	275.28	260.95	14.33	--	--	64,000	12,000	400	1,500	4,400	<1000
10/22/97	275.28	261.80	13.48	--	--	49,000	15,000	570	1,900	5,600	1,500
01/12/98	275.28	265.14	10.14	--	--	60,000	16,000	540	1,800	5,400	<1000
04/21/98	275.28	267.73	7.55	--	--	51,000	16,000	310	1,400	3,400	<1000
07/08/98	275.28	262.80	12.48	--	--	19,000	8,200	150	720	1,100	<250
10/13/98	275.28	259.82	15.46	--	--	46,000	12,000	490	1600	3,600	<250
01/27/99	275.28	263.32	11.96	--	--	16,000	4,440	132	688	1,290	190
04/27/99	275.28	263.15	12.13	--	--	38,800	13,100	403	1,540	3,430	<1250
07/23/99	275.28	261.82	13.46	--	--	33,400	9,460	182	1,030	2,040	<1000
11/01/99	275.28	262.01	13.27	--	--	23,700	7,250	335	775	882	161
01/20/00	275.28	260.64	14.64	--	--	32,300	8,970	181	1,020	1,450	<1000

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-6 (cont)											
04/28-29/00	275.28	263.21	12.07	0.00	--	1,900[3]	3,100	40	51	130	120
07/21/00	275.28	262.88	12.40	0.00	--	5,000[3]	4,400	43	50	88	130
10/09-10/00	275.28	261.89	13.39	0.00	--	4,810[5]	2,570	<25.0	<25.0	<25.0	<125
01/08-09/01	275.28	261.51	13.77	0.00	--	110[5]	16.8	0.827	<0.500	1.88	<2.50
04/30/01	275.28	265.16	10.12	0.00	--	19,400[3]	5,290	74.0	171	648	<500
07/09-10/01	275.28	261.77	13.51	0.00	--	7,000[3]	5,300	65	200	360	680
10/10/01	275.28	261.54	13.74	0.00	--	18,000	5,600	51	140	340	<50
01/07/02	275.28	264.67	10.61	0.00	--	34,000	12,000	270	960	1,700	160
04/11/02	275.28	263.58	11.70	0.00	--	31,000	11,000	230	790	2,000	<50
07/11/02	275.28	263.26	12.02	0.00	--	41,000	14,000	230	820	1,800	<100
10/30/02	275.28	262.54	12.74	0.00	--	19,000	7,800	64	150	350	86
01/29/03	275.28	264.55	10.73	0.00	--	40,000	15,000	310	1,100	2,000	<130/13[11]
04/18/03	275.28	264.82	10.46	0.00	--	45,000	18,000	410	1,300	3,400	<50
07/18/03[14]	275.28	263.64	11.64	0.00	--	39,000	14,000	170	46	1,300	<20
10/17/03[14]	275.28	262.27	13.01	0.00	--	33,000	12,000	96	260	520	<10
01/20/04[14]	275.28	264.19	11.09	0.00	--	38,000	11,000	290	1,100	2,000	16
04/09/04[14]	275.28	264.19	11.09	0.00	--	26,000	9,700	150	630	1,100	18
07/09/04[14]	275.28	262.63	12.65	0.00	--	28,000	9,300	170	710	970	18
10/29/04[14]	275.28	263.08	12.20	0.00	--	51,000	9,300	130	680	730	17
02/25/05[14]	275.28	265.24	10.04	0.00	--	4,400	14,000	310	1,300	2,000	12
05/27/05[14]	275.28	264.73	10.55	0.00	--	46,000	16,000	300	1,400	2,000	11
07/15/05[14]	275.28	264.31	10.97	0.00	--	53,000	17,000	360	1,400	2,000	12
10/14/05[14]	275.28	261.62	13.66	0.00	--	31,000	11,000	190	660	1,000	<13
01/12/06[14]	275.28	265.17	10.11	0.00	--	2,300	320	4	97	17	<0.5
04/20/06[14]	275.28	265.33	9.95	0.00	--	55,000	17,000	460	2,000	2,500	<10
07/20/06[14]	275.28	264.10	11.18	0.00	--	60,000	19,000	500	2,600	2,700	<10
10/06/06[14]	275.28	261.72	13.56	0.00	--	52,000	12,000	250	1,100	1,400	<10
01/17/07[14]	275.28	262.12	13.16	0.00	--	60,000	27,000	500	2,300	2,600	<25

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-6 (cont)											
04/25/07[14]	275.28	262.97	12.31	0.00	--	53,000	14,000	430	2,100	2,100	<10
07/27/07[14]	275.28	262.50	12.78	0.00	--	37,000	12,000	210	1,400	810	<10
10/15/07[14]	275.28	261.10	14.18	0.00	--	42,000	16,000	200	2,300	640	<10
01/07/08[14]	275.28	262.30	12.98	0.00	--	33,000	13,000	290	2,400	1,100	<13
04/04/08[14]	275.28	262.94	12.34	0.00	--	53,000	18,000	450	2,900	1,800	5
07/09/08[14]	275.28	260.62	14.66	0.00	--	29,000	11,000	250	1,600	570	7
10/31/08[14]	275.28	259.37	15.91	0.00	--	19,000	5,500	53	560	120	13
01/08/09[14]	275.28	261.71	13.57	0.00	--	33,000	13,000	220	1,800	540	<10
04/24/09[14]	275.28	262.48	12.80	0.00	--	27,000	10,000	120	1,000	480	13
07/15/09[14]	275.28	260.43	14.85	0.00	--	24,000	8,700	67	670	150	13
10/20/09	275.28	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	275.28	262.46	12.82	0.00	--	26,000	7,200	70	760	140	15
04/12/10	**275.28**	**MONITORED/SAMPLED SEMI-ANNUALLY**			**--**	**--**	**--**	**--**	**--**	**--**	**--**
C-7											
03/26/85	--	--	9.61	--	--	--	--	--	--	--	--
07/03/86	270.70	259.96	10.74	--	--	--	--	--	--	--	--
03/26/87	270.70	260.62	10.08	--	--	--	--	--	--	--	--
03/28/88	270.70	256.91	13.79	--	--	--	--	--	--	--	--
03/10/89	270.70	260.28	10.42	--	--	--	--	--	--	--	--
04/03/89	270.70	261.56	9.14	--	--	--	--	--	--	--	--
05/08/89	270.70	258.79	11.91	--	--	--	--	--	--	--	--
06/05/89	270.70	259.16	11.54	--	--	--	--	--	--	--	--
07/12/90	270.70	257.25	13.45	--	--	--	--	--	--	--	--
08/10/90	270.70	257.33	13.37	--	--	--	--	--	--	--	--
09/13/89	270.70	256.10	14.60	--	--	410	1.3	ND	10	ND	--
10/04/89	270.70	255.53	15.17	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-7 (cont)												
12/04/89		270.70	255.00	15.70	--	--	1,000	1.0	ND	5.0	ND	--
03/07/90		270.70	256.48	14.22	--	--	--	--	--	--	--	--
03/09/90		270.70	256.48	14.22	--	--	590	2.8	2.4	3.5	2.0	--
06/12/90		270.70	256.52	14.18	--	--	1,200	ND	5.0	8.2	3.2	--
09/24/90		270.70	255.26	15.44	Sheen	--	400	1.4	1.9	1.4	2.2	--
09/24/90	(D)	270.70	255.26	15.44	--	--	580	ND	2.4	1.4	1.5	--
12/20/90		270.70	253.62	17.08	--	--	2,300	ND	6.5	4.7	9.3	--
03/27/91		270.70	258.05	12.65	--	--	980	ND	2.4	9.1	3.0	--
06/18/91		270.70	254.26	16.44	--	--	--	--	--	--	--	--
09/12/91		270.70	253.65	17.05	--	--	1,200	ND	3.1	6.5	2.7	--
01/23/92		270.70	253.78	16.92	--	--	--	--	--	--	--	--
04/13/92		270.70	257.70	13.00	--	--	830	ND	1.0	7.8	1.2	--
08/03/92		270.70	--	--	--	--	--	--	--	--	--	--
10/22/92		270.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
01/18/93		270.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
04/19/93		270.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
07/21-22/93		270.70	257.76	12.94	--	--	890	0.9	3.0	4.0	4.0	--
10/25/93		270.70	255.87	14.83	--	--	--	--	--	--	--	--
01/21/94		270.70	254.76	15.94	--	--	660	ND	6.0	1.0	3.0	--
04/18/94		270.70	255.72	14.98	--	--	--	--	--	--	--	--
07/06-07/94		270.70	257.76	12.94	--	--	960	ND	5.8	4.2	8.2	--
10/07/94		270.70	254.87	15.83	--	--	--	--	--	--	--	--
01/11/95		270.70	261.45	9.25	--	--	900	<0.5	<0.5	2.3	1.3	--
04/24/95		270.70	264.00	6.70	--	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/31/95		270.70	259.46	11.24	--	--	690	<1.2	<1.2	<1.2	<1.2	--
10/02/95		270.70	256.68	14.02	--	--	--	--	--	--	--	--
01/16/96		270.70	259.48	11.22	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96		270.70	264.05	6.65	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-7 (cont)											
07/22/96	270.70	259.60	11.10	--	--	360	4.4	2.0	<0.5	<0.5	17
10/10/96	270.70	259.35	11.35	--	--	--	--	--	--	--	--
01/09/97	270.70	266.82	3.88	--	--	69	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97	270.70	262.82	7.88	--	--	--	--	--	--	--	--
07/08/97	270.70	261.70	9.00	--	--	710	8.0	1.20	<0.5	<0.5	22
10/22/97	270.70	262.09	8.61	--	--	--	--	--	--	--	--
01/12/98	270.70	267.03	3.67	--	--	400	7.20	<1.0	1.60	1.30	16
04/21/98	270.70	270.19	0.51	--	--	--	--	--	--	--	--
07/08/98	270.70	263.72	6.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	270.70	261.58	9.12	--	--	--	--	--	--	--	--
01/27/99	270.70	262.15	8.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	270.70	265.75	4.95	--	--	--	--	--	--	--	--
07/23/99	270.70	265.60	5.10	--	--	500	7.84	0.983	1.71	0.658	<5.0
11/01/99	270.70	263.41	7.29	--	--	--	--	--	--	--	--
01/20/00	270.70	262.94	7.76	--	--	503	6.82	0.56	<0.5	1.35	<5.0
04/28-29/00	270.70	266.33	4.37	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/21/00	270.70	266.51	4.19	0.00	--	--	--	--	--	--	--
07/26/00	270.70	266.41	4.29	0.00	--	110[4]	1.8	1.1	<0.50	<0.50	<2.5
10/09-10/00	270.70	265.47	5.23	0.00	--	--	--	--	--	--	--
01/08-09/01	270.70	264.00	6.70	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	270.70	266.39	4.31	0.00	--	--	--	--	--	--	--
07/09-10/01	270.70	265.87	4.83	0.00	--	150[3]	1.9	0.83	<0.50	0.95	4.8
10/10/01	270.70	266.43	4.27	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
01/07/02	270.70	268.78	1.92	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	270.70	266.41	4.29	0.00	--	--	--	--	--	--	--
07/11/02	270.70	265.90	4.80	0.00	--	310	<1.0	0.56	<0.50	1.9	<2.5
10/30/02	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/29/03	270.70	267.08	3.62	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[11]

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-7 (cont)											
04/18/03	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/18/03[14]	270.70	265.55	5.15	0.00	--	220	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/20/04[14]	270.70	267.05	3.65	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/09/04[14]	270.70	265.06	5.64	0.00	--	190	<0.5	<0.5	<0.5	<0.5	<0.5
10/29/04	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
02/25/05[14]	270.70	268.64	2.06	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/15/05[14]	270.70	266.26	4.44	0.00	--	130	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/12/06[14]	270.70	267.68	3.02	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/20/06[14]	270.70	265.36	5.34	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06	270.70	263.88	6.82	0.00	--	--	--	--	--	--	--
01/17/07[14]	270.70	263.35	7.35	0.00	--	150	1	1	<0.5	2	<0.5
04/25/07	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/27/07[14]	270.70	262.18	8.52	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/07	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/07/08[14]	270.70	264.00	6.70	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/09/08[14]	270.70	261.90	8.80	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/08/09[14]	270.70	263.05	7.65	0.00	--	85	<0.5	<0.5	2	<0.5	<0.5
04/24/09	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/15/09[14]	270.70	262.00	8.70	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-7 (cont)											
10/20/09	270.70	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	270.70	263.97	6.73	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**270.70**	**MONITORED/SAMPLED SEMI-ANNUALLY**			--	--	--	--	--	--	--
C-8											
03/26/85	--	--	8.68	--	--	--	--	--	--	--	--
07/03/86	288.40	274.51	13.89	--	--	--	--	--	--	--	--
03/26/87	288.40	282.39	6.01	--	--	--	--	--	--	--	--
03/28/88	288.40	277.74	10.66	--	--	--	--	--	--	--	--
03/10/89	288.40	281.79	6.61	--	--	--	--	--	--	--	--
04/03/89	288.40	281.94	6.46	--	--	--	--	--	--	--	--
05/08/89	288.40	279.43	8.97	--	--	--	--	--	--	--	--
06/05/89	288.40	277.52	10.88	--	--	--	--	--	--	--	--
07/12/90	288.40	276.25	12.15	--	--	--	--	--	--	--	--
08/10/90	288.40	275.94	12.46	--	--	--	--	--	--	--	--
09/13/89	288.40	275.62	12.78	--	--	ND	ND	ND	ND	ND	--
10/04/89	288.40	275.89	12.51	--	--	--	--	--	--	--	--
11/03/89	288.40	273.77	14.63	--	--	--	--	--	--	--	--
12/04/89	288.40	278.81	9.59	--	--	64	0.6	0.6	ND	1.0	--
03/07/90	288.40	279.60	8.80	--	--	--	--	--	--	--	--
03/09/90	288.40	279.60	8.80	--	--	ND	ND	ND	ND	ND	--
06/12/90	288.40	279.46	8.94	--	--	120	2.5	1.2	1.0	1.4	--
09/24/90	288.40	274.86	13.54	--	--	--	--	--	--	--	--
12/20/90	288.40	279.07	9.33	--	--	--	--	--	--	--	--
03/27/91	288.40	282.30	6.10	--	--	54	0.7	ND	0.7	1.9	--
06/18/91	288.40	276.44	11.96	--	--	--	--	--	--	--	--
09/12/91	288.40	274.80	13.60	--	--	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-8 (cont)												
09/12/91	(D)	288.40	274.80	13.60	--	--	ND	ND	ND	ND	ND	--
01/23/92		288.40	264.20	24.20	--	--	--	--	--	--	--	--
04/13/92		288.40	280.05	8.35	--	--	ND	ND	ND	ND	ND	--
08/03/92		288.40	275.82	12.58	--	--	ND	ND	ND	ND	ND	--
10/22/92		288.40	275.30	13.10	--	--	ND	ND	ND	ND	ND	--
01/18/93		288.40	282.28	6.12	--	--	ND	ND	ND	ND	ND	--
04/19/93		288.40	281.35	7.05	--	--	ND	ND	ND	ND	ND	--
07/21-22/93		288.40	277.05	11.35	--	--	ND	ND	ND	ND	ND	--
10/25/93		288.40	275.55	12.85	--	--	ND	ND	ND	ND	ND	--
01/21/94		288.40	277.85	10.55	--	--	ND	ND	ND	ND	ND	--
04/18/94		288.40	278.89	9.51	--	--	ND	1.2	0.9	ND	1.6	--
07/06-07/94		288.40	277.02	11.38	--	--	ND	ND	ND	ND	ND	--
10/07/94		288.40	275.48	12.92	--	--	ND	ND	ND	ND	ND	--
01/11/95		288.40	283.04	5.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95		288.40	281.82	6.58	--	--	<50	<0.5	0.61	<0.5	0.51	--
07/31/95		288.40	278.94	9.46	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95		288.40	276.56	11.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/16/96		288.40	281.40	7.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	5.4
04/18/96		288.40	281.77	6.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/22/96		288.40	280.49	7.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96		288.40	279.71	8.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/09/97		288.40	283.11	5.29	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97		288.40	281.90	6.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/97		288.40	281.90	6.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97		288.40	283.00	5.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98		288.40	284.27	4.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98		288.40	283.84	4.56	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98		288.40	277.81	10.59	--	--	<50	<0.5	0.57	<0.5	<0.5	<2.5

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-8 (cont)											
10/13/98	288.40	276.32	12.08	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/27/99	288.40	276.89	11.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	288.40	282.40	6.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/99	288.40	282.13	6.27	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	288.40	282.30	6.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00	288.40	281.92	6.48	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	288.40	282.82	5.58	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00	288.40	282.45	5.95	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00	288.40	281.82	6.58	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/08-09/01	288.40	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/01	288.40	282.44	5.96	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
07/09-10/01	288.40	282.81	5.59	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/01	288.40	282.88	5.52	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/07/02	288.40	282.90	5.50	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	288.40	282.53	5.87	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/11/02	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/30/02	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03	288.40	282.38	6.02	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[11]
04/18/03	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/18/03	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/17/03	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04[14]	288.40	282.35	6.05	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/04	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/29/04	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05[14]	288.40	283.61	4.79	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/05	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-8 (cont)											
10/14/05	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06[14]	288.40	282.89	5.51	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/20/06	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/06/06	288.40	281.42	6.98	0.00	--	--	--	--	--	--	--
01/17/07[14]	288.40	280.62	7.78	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/27/07	289.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/15/07	289.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/07/08[14]	288.40	283.27	5.13	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/08	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/31/08	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/08/09[14]	288.40	282.35	6.05	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/09	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/20/09	288.40	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	288.40	282.67	5.73	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**288.40**	**MONITORED/SAMPLED ANNUALLY**			**--**	**--**	**--**	**--**	**--**	**--**	**--**
C-9											
07/03/86	268.46	254.57	13.89	--	--	--	--	--	--	--	--
03/26/87	268.46	254.72	13.74	--	--	--	--	--	--	--	--
03/28/88	268.46	253.47	14.99	--	--	--	--	--	--	--	--
03/10/89	268.46	255.07	13.39	--	--	--	--	--	--	--	--
04/03/89	268.46	255.62	12.84	--	--	--	--	--	--	--	--
05/08/89	268.46	254.08	14.38	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-9 (cont)												
06/05/89		268.46	253.10	15.36	--	--	--	--	--	--	--	--
07/12/90		268.46	252.81	15.65	--	--	--	--	--	--	--	--
08/10/90		268.46	252.66	15.80	--	--	--	--	--	--	--	--
09/13/89		268.46	251.93	16.53	--	--	42,000	14,000	1,100	2,800	4,200	--
10/04/89		268.46	251.94	16.52	--	--	--	--	--	--	--	--
11/03/89		268.46	251.95	16.51	--	--	--	--	--	--	--	--
12/04/89		268.46	251.67	16.79	--	--	36,000	11,000	670	2,500	3,800	--
03/07/90		268.46	252.24	16.22	--	--	--	--	--	--	--	--
03/09/90		268.46	252.24	16.22	--	--	28,000	12,000	940	3,000	4,700	--
06/12/90		268.46	253.58	14.88	--	--	39,000	11,000	1,600	2,300	4,800	--
09/24/90		268.46	252.16	16.30	--	--	120,000	13,000	1,600	3,700	6,800	--
12/20/90		268.46	251.23	17.23	--	--	51,000	9,300	560	2,800	3,300	--
12/20/90	(D)	268.46	251.23	17.23	--	--	44,000	12,000	580	2,800	3,500	--
03/27/91		268.46	254.68	13.78	--	--	56,000	3,400	5,000	1,600	5,600	--
06/18/91		268.46	249.82	18.64	--	--	--	--	--	--	--	--
09/12/91		268.46	INACCESSIBLE		--	--	--	--	--	--	--	--
10/24/95		268.46	250.39	18.07	--	--	30,000	7,200	440	2,500	1,600	--
01/16/96		268.46	252.18	16.28	--	--	36,000	8,200	700	2,500	2,100	<500
01/16/96		268.46	252.18	16.28	--	--	36,000	8,200	700	2,500	2,100	<500
07/08/98		268.46	256.46	12.00	--	--	20,000	4,900	880	1,100	2,500	<250
10/13/98		268.46	254.19	14.27	--	--	28,000	7,100	1,100	1,300	2,700	<125
01/27/99		268.46	256.92	11.54	--	--	12,100	3,490	249	654	1,260	131
04/27/99		268.46	257.46	11.00	--	--	42,400	12,500	732	3,060	2,760	1000
07/23/99		268.46	257.16	11.30	--	--	28,800	7,420	418	1,900	1,720	<1000
11/01/99		268.46	257.02	11.44	--	--	10,100	2,050	227	628	830	933
01/20/00		268.46	255.38	13.08	--	--	33,100	7,990	239	1,990	1,030	<1000
04/28-29/00		268.46	257.61	10.85	0.00	--	7,400[3]	1,100	<50	440	280	<250
07/21/00		268.46	256.93	11.53	0.00	--	3,900[3]	770	33	270	200	210
10/09-10/00		268.46	254.76	13.70	0.00	--	4,190[5]	732	32.3	340	200	<50.0

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-9 (cont)											
01/08-09/01	268.46	254.68	13.78	0.00	--	7,430[5]	1,740	<50.0	554	317	297
04/30/01[9]	268.46	255.07	13.39	0.00	--	5,040[3]	509	12.2	248	119	<100
07/09-10/01[9]	268.46	255.46	13.00	0.00	--	2,800[3]	430	<25	200	91	200
10/10/01[9]	268.46	255.96	12.50	0.00	--	5,900	920	33	300	240	<20
01/07/02	268.46	258.75	9.71	0.00	--	2,800	120	6.3	33	82	62
04/11/02[9]	268.46	258.11	10.35	0.00	--	6,700	1,200	24	360	140	<50
07/11/02[9]	268.46	INACCESSIBLE - PUMP STUCK IN WELL			--	--	--	--	--	--	--
10/30/02[9]	268.46	INACCESSIBLE - PUMP STUCK IN WELL			--	--	--	--	--	--	--
01/29/03[9]	268.46	INACCESSIBLE - PUMP STUCK IN WELL			--	--	--	--	--	--	--
04/18/03[12]	--[13]	--[13]	8.95	0.00	--	5,500	920	40	340	140	<13
07/18/03[12,14]	--[13]	--[13]	10.22	0.00	--	12,000	1,900	110	670	520	<1
10/17/03[14]	--[13]	--[13]	10.35	0.00	--	17,000	3,100	80	990	820	<3
01/20/04[14]	--[13]	--[13]	8.98	0.00	--	6,200	1,100	18	340	38	<1
04/09/04[14]	--[13]	--[13]	9.07	0.00	--	10,000	2,900	37	920	130	<3
07/09/04[14]	--[13]	--[13]	10.40	0.00	--	14,000	2,500	120	730	440	<3
10/29/04[14]	--[13]	--[13]	10.22	0.00	--	10,000	840	19	310	76	0.5
02/25/05[14]	--[13]	--[13]	8.08	0.00	--	2,600	550	4	200	15	0.7
05/27/05[14]	--[13]	--[13]	8.57	0.00	--	14,000	2,500	38	940	170	<3
07/15/05[14]	--[13]	--[13]	8.90	0.00	--	9,900	2,000	76	710	310	<3
10/14/05[14]	--[13]	--[13]	10.85	0.00	--	12,000	2,200	62	690	360	<3
01/12/06[14,15]	--[13]	--[13]	18.60	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06[14]	--[13]	--[13]	7.95	0.00	--	17,000	3,500	78	1,100	440	3
07/20/06[14]	--[13]	--[13]	9.21	0.00	--	16,000	3,900	71	1,000	420	<5
10/06/06[14]	--[13]	--[13]	10.70	0.00	--	8,900	370	24	170	92	<0.5
01/17/07[14]	--[13]	--[13]	10.36	0.00	--	14,000	3,200	46	880	240	3
04/25/07[14]	--[13]	--[13]	10.15	0.00	--	16,000	3,800	46	890	180	<5
07/27/07[14]	--[13]	--[13]	11.25	0.00	--	13,000	3,100	32	830	92	3
10/15/07[14]	--[13]	--[13]	10.92	0.00	--	2,100	160	4	17	11	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-9 (cont)											
01/07/08[14]	--[13]	--[13]	10.50	0.00	--	1,100	61	0.7	0.7	1	<0.5
04/04/08[14]	--[13]	--[13]	9.87	0.00	--	16,000	4,100	52	1,000	210	3
07/09/08[14]	--[13]	--[13]	11.06	0.00	--	4,500	320	5	150	9	<0.5
10/31/08[14]	--[13]	--[13]	12.10	0.00	--	4,400	1,100	12	160	19	1
01/08/09[14]	--[13]	--[13]	10.87	0.00	--	15,000	2,800	50	750	260	3
04/24/09[14]	--[13]	--[13]	10.12	0.00	--	4,900	400	5	20	9	0.6
07/15/09[14]	--[13]	--[13]	11.15	0.00	--	5,800	510	7	96	14	0.7
10/20/09[14]	--[13]	--[13]	10.24	0.00	--	2,400	190	3	2	6	<0.5
01/04/10[14]	--[13]	--[13]	9.91	0.00	--	14,000	2,300	35	600	190	<3
04/12/10[14]	**--[13]**	**--[13]**	**7.74**	**0.00**	**--**	**7,200**	**880**	**38**	**330**	**280**	**0.5**
C-11											
03/07/90	265.30	242.56	22.74	--	--	--	--	--	--	--	--
03/09/90	265.30	--	--	--	--	ND	1.2	0.7	ND	1.4	--
06/12/90	265.30	243.32	21.98	--	--	ND	ND	ND	ND	ND	--
09/24/90	265.30	243.42	21.88	--	--	ND	ND	ND	ND	ND	--
12/20/90	265.30	242.12	23.18	--	--	ND	ND	ND	ND	ND	--
03/27/91	265.30	243.78	21.52	--	--	ND	ND	ND	ND	1.5	--
06/18/91	265.30	243.40	21.90	--	--	--	--	--	--	--	--
09/12/91	265.30	242.60	22.70	--	--	ND	ND	ND	ND	ND	--
01/23/92	265.30	241.84	23.46	--	--	ND	ND	ND	ND	ND	--
04/13/92	265.30	243.73	21.57	--	--	ND	ND	ND	ND	ND	--
08/03/92	265.30	242.63	22.67	--	--	ND	ND	ND	ND	ND	--
10/22/92	265.30	242.01	23.29	--	--	ND	ND	ND	ND	ND	--
01/18/93	265.30	243.94	21.36	--	--	ND	ND	1.2	ND	2.2	--
04/19/93	265.30	245.33	19.97	--	--	ND	ND	ND	ND	ND	--
07/21-22/93	265.30	244.65	20.65	--	--	ND	ND	ND	ND	ND	--

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-11 (cont)											
10/25/93	265.30	244.55	20.75	--	--	ND	ND	ND	ND	ND	--
01/21/94	265.30	243.69	21.61	--	--	ND	ND	ND	ND	ND	--
04/18/94	265.30	244.52	20.78	--	--	ND	ND	ND	ND	ND	--
07/06-07/94	265.30	244.88	20.42	--	--	ND	ND	ND	ND	ND	--
10/07/94	265.30	243.70	21.60	--	--	ND	ND	ND	ND	ND	--
01/11/95	265.30	245.28	20.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	265.30	247.58	17.72	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/31/95	265.30	246.12	19.18	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	265.30	244.88	20.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/16/96	265.30	245.48	19.82	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	265.30	248.30	17.00	--	--	260	7.9	6.9	5.3	23	11
07/22/96	265.30	248.40	16.90	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96	265.30	245.74	19.56	--	--	130	32	2.70	4.30	14	3.40
01/09/97	265.30	249.28	16.02	--	--	75	5.30	6.40	2.0	9.0	<2.5
04/15/97	265.30	247.35	17.95	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/97	265.30	245.55	19.75	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	265.30	245.74	19.56	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	265.30	246.97	18.33	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	265.30	248.62	16.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98	265.30	246.76	18.54	--	--	<50	<0.5	0.58	<0.5	<0.5	<2.5
10/13/98	265.30	245.02	20.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/27/99	265.30	245.85	19.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	265.30	246.90	18.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/99	265.30	246.05	19.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	265.30	247.47	17.83	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00	265.30	245.06	20.24	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	265.30	246.35	18.95	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00	265.30	246.07	19.23	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-11 (cont)											
10/09-10/00	265.30	245.57	19.73	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/08-09/01	265.30	244.99	20.31	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	265.30	246.01	19.29	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
07/09-10/01	265.30	245.51	19.79	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/01	265.30	245.23	20.07	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/07/02	265.30	246.85	18.45	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	265.30	246.05	19.25	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/11/02	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/30/02	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03	265.30	245.89	19.41	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[11]
04/18/03	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/18/03	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/17/03	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04[14]	265.30	246.35	18.95	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/04	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/29/04	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05[14]	265.30	247.17	18.13	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/05	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/14/05	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06[14,15]	265.30	246.70	18.60	0.00	--	50,000	21,000	680	2,800	3,900	<25
04/20/06	265.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/20/06[14]	265.30	246.34	18.96	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06[14]	265.30	246.00	19.30	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07[14]	265.30	245.70	19.60	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07[14]	265.30	245.93	19.37	0.00	--	<50	<0.5	0.8	<0.5	0.7	<0.5
07/27/07[14]	265.30	245.60	19.70	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

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WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-11 (cont)											
10/15/07[14]	265.30	245.65	19.65	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08[14]	265.30	245.87	19.43	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08[14]	265.30	247.26	18.04	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08[14]	265.30	246.14	19.16	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08[14]	265.30	245.69	19.61	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09[14]	265.30	246.19	19.11	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09[14]	265.30	246.42	18.88	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09[14]	265.30	246.35	18.95	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09	265.30	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	265.30	246.81	18.49	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**265.30**	**MONITORED/SAMPLED SEMI-ANNUALLY**			**--**	**--**	**--**	**--**	**--**	**--**	**--**
C-12											
03/07/90	269.66	254.74	14.92	--	--	--	--	--	--	--	--
03/09/90	269.66	--	--	--	--	1,400	230	140	33	180	--
06/12/90	269.66	254.87	14.79	--	--	720	190	71	18	73	--
09/24/90	269.66	253.94	15.72	--	--	ND	1.1	ND	ND	0.6	--
12/20/90	269.66	254.40	15.26	--	--	810	210	26	8.2	23	--
03/27/91	269.66	257.55	12.11	--	--	2,900	350	220	52	210	--
06/18/91	269.66	253.28	16.38	--	--	--	--	--	--	--	--
09/12/91	269.66	252.11	17.55	--	--	350	59	12	4.5	8.5	--
01/23/92	269.66	252.55	17.11	--	--	450	110	31	7.9	22	--
04/13/92	269.66	255.26	14.40	--	--	5,000	1,100	76	100	200	--
08/03/92	269.66	253.83	15.83	--	--	520	200	21	13	25	--
10/22/92	269.66	253.52	16.14	--	--	1,300	310	66	35	56	--
01/18/93	269.66	257.96	11.70	--	--	5,600	1,200	430	220	610	--
04/19/93	269.66	256.61	13.05	--	--	2,000	600	99	96	170	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-12 (cont)											
07/21-22/93	269.66	256.82	12.84	--	--	540	95	36	18	56	--
10/25/93	269.66	255.63	14.03	--	--	350	90	29	20	50	--
01/21/94	269.66	255.51	14.15	--	--	450	73	18	14	37	--
04/18/94	269.66	256.71	12.95	--	--	370	70	21	12	39	--
07/06-07/94	269.66	257.35	12.31	--	--	840	200	35	28	66	--
10/07/94	269.66	256.31	13.35	--	--	830	85	29	17	63	--
01/11/95	269.66	258.43	11.23	--	--	2,100	570	190	98	390	--
04/24/95	269.66	259.34	10.32	--	--	820	120	28	23	61	--
07/31/95	269.66	256.92	12.74	--	--	520	79	13	16	42	--
10/02/95	269.66	255.26	14.40	--	--	400	50	5.3	11	29	--
01/16/96	269.66	256.94	12.72	--	--	1,900	490	32	60	120	<25
04/18/96	269.66	258.91	10.75	--	--	2,900	640	54	100	190	68
07/22/96	269.66	256.46	13.20	--	--	730	150	13	26	75	10
10/10/96	269.66	255.95	13.71	--	--	270	58	4.40	7.70	31	<2.5
01/09/97	269.66	260.60	9.06	--	--	2,900	550	67	94	300	63
04/15/97	269.66	258.13	11.53	--	--	2,500	350	29	92	200	43
07/08/97	269.66	257.92	11.74	--	--	1,400	190	17	54	120	21
10/22/97	269.66	258.78	10.88	--	--	2,300	490	45	110	340	42
01/12/98	269.66	260.76	8.90	--	--	5,000	840	89	220	610	<50
04/21/98	269.66	262.41	7.25	--	--	2,400	410	39	79	270	130
07/08/98	269.66	258.95	10.71	--	--	<50	7.6	<0.5	2.0	2.9	<2.5
10/13/98	269.66	257.01	12.65	--	--	2,600	460	34	120	240	11
01/27/99	269.66	257.41	12.25	--	--	96.9	6.88	<0.5	<0.5	<0.5	<2.0
04/27/99	269.66	259.46	10.20	--	--	2,720	614	32	128	300	<50
07/23/99	269.66	258.27	11.39	--	--	1,230	220	10	45	93.6	<20
11/01/99	269.66	257.13	12.53	--	--	70.7	10.7	1.02	<0.5	1.61	5.55
01/20/00	269.66	257.85	11.81	--	--	1,390	301	10.7	29.9	90.8	<50
04/28-29/00	269.66	259.37	10.29	0.00	--	310[3]	57	<0.50	11	6.8	15

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-12 (cont)											
07/21/00	269.66	258.67	10.99	0.00	--	260[3]	74	1.5	<0.50	12	5.55
10/09-10/00	269.66	257.63	12.03	0.00	--	3,510[5]	903	24.0	53.9	200	<100
01/08-09/01	269.66	257.70	11.96	0.00	--	1,600[7]	319	<5.00	60.7	55.1	84.8
04/30/01	269.66	259.08	10.58	0.00	--	985[3]	114	<2.50	26.4	14.6	<25.0
07/09-10/01	269.66	258.04	11.62	0.00	--	<50	6.5	<0.50	<0.50	<0.50	<2.5
10/10/01	269.66	257.60	12.06	0.00	--	8,700	720	15	430	250	<50
01/07/02	269.66	261.28	8.38	0.00	--	2,200	460	8.5	60	73	31
04/11/02	269.66	260.71	8.95	0.00	--	6,200	610	8.4	420	230	<25
07/11/02	269.66	259.95	9.71	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/30/02	269.66	258.38	11.28	0.00	--	240	40	0.88	0.58	1.6	<2.5
01/29/03	269.66	261.36	8.30	0.00	--	8,300	530	9.9	500	350	<50/<0.5[11]
04/18/03	269.66	261.68	7.98	0.00	--	3,300	200	3.6	200	79	<10
07/18/03[14]	269.66	260.74	8.92	0.00	--	1,500	86	0.8	50	17	<0.5
10/17/03[14]	269.66	259.18	10.48	0.00	--	940	56	0.7	37	11	<0.5
01/20/04[14]	269.66	260.96	8.70	0.00	--	6,000	180	3	270	160	<0.5
04/09/04[14]	269.66	261.32	8.34	0.00	--	3,900	240	2	250	55	0.8
07/09/04[14]	269.66	259.71	9.95	0.00	--	2,300	80	0.9	99	24	<0.5
10/29/04[14]	269.66	259.99	9.67	0.00	--	200	50	0.5	<0.5	<0.5	<0.5
02/25/05[14]	269.66	262.17	7.49	0.00	--	6,600	210	2	260	91	<1
05/27/05[14]	269.66	261.87	7.79	0.00	--	1,400	94	0.9	99	25	<0.5
07/15/05[14]	269.66	261.53	8.13	0.00	--	<50	1	<0.5	<0.5	<0.5	<0.5
10/14/05[14]	269.66	259.08	10.58	0.00	--	2,500	97	1	77	16	<0.5
01/12/06[14]	269.66	261.95	7.71	0.00	--	1,000	30	<0.5	48	10	<0.5
04/20/06[14]	269.66	261.95	7.71	0.00	--	5,800	350	4	170	120	<0.5
07/20/06[14]	269.66	261.12	8.54	0.00	--	5,100	190	2	240	120	<0.5
10/06/06[14]	269.66	259.27	10.39	0.00	--	4,300	120	3	160	38	<0.5
01/17/07[14]	269.66	259.55	10.11	0.00	--	1,600	73	2	75	22	<0.5
04/25/07[14]	269.66	260.77	8.89	0.00	--	3,700	160	2	190	72	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-12 (cont)											
07/27/07[14]	269.66	258.48	11.18	0.00	--	2,600	120	1	69	20	<0.5
10/15/07[14]	269.66	259.11	10.55	0.00	--	2,000	81	0.7	55	10	<0.5
01/07/08[14]	269.66	260.80	8.86	0.00	--	1,800	35	<0.5	23	5	<0.5
04/04/08[14]	269.66	261.20	8.46	0.00	--	2,100	27	<0.5	26	8	<0.5
07/09/08[14]	269.66	258.65	11.01	0.00	--	360	11	<0.5	2	0.8	<0.5
10/31/08[14]	269.66	257.45	12.21	0.00	--	1,000	15	<0.5	5	2	<0.5
01/08/09[14]	269.66	259.29	10.37	0.00	--	2,400	78	1	54	22	<0.5
04/24/09[14]	269.66	260.03	9.63	0.00	--	600	18	<0.5	0.7	1	<0.5
07/15/09[14]	269.66	258.24	11.42	0.00	--	3,300	150	3	3	22	0.6
10/20/09	269.66	MONITORED/SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
01/04/10[14]	269.66	259.86	9.80	0.00	--	2,200	57	0.8	25	17	<0.5
04/12/10	**269.66**	**MONITORED/SAMPLED SEMI-ANNUALLY**			--	--	--	--	--	--	--
C-13											
03/07/90	284.32	273.14	11.18	--	--	--	--	--	--	--	--
03/09/90	284.32	--	--	--	--	ND	15	3.7	1.0	6.2	--
06/12/90	284.32	273.62	10.70	--	--	ND	2.6	ND	ND	ND	--
09/24/90	284.32	272.72	11.60	--	--	ND	2.4	ND	ND	ND	--
12/20/90	284.32	274.16	10.16	--	--	ND	1.6	ND	ND	ND	--
03/27/91	284.32	276.68	7.64	--	--	--	--	--	--	--	--
06/18/91	284.32	273.00	11.32	--	--	--	--	--	--	--	--
09/12/91	284.32	272.48	11.84	--	--	ND	ND	ND	ND	ND	--
01/23/92	284.32	273.77	10.55	--	--	--	--	--	--	--	--
04/13/92	284.32	273.36	10.96	--	--	ND	1.0	ND	ND	ND	--
08/03/92	284.32	273.42	10.90	--	--	ND	ND	ND	ND	ND	--
10/22/92	284.32	273.14	11.18	--	--	--	--	--	--	--	--
01/18/93	284.32	276.92	7.40	--	--	290	54	10	5.4	12	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-13 (cont)											
04/19/93	284.32	275.39	8.93	--	--	--	--	--	--	--	--
07/21-22/93	284.32	273.57	10.75	--	--	ND	ND	ND	ND	ND	--
10/25/93	284.32	273.47	10.85	--	--	--	--	--	--	--	--
01/21/94	284.32	273.27	11.05	--	--	ND	ND	ND	ND	ND	--
04/18/94	284.32	273.61	10.71	--	--	--	--	--	--	--	--
07/06-07/94	284.32	273.67	10.65	--	--	ND	0.5	ND	ND	ND	--
10/07/94	284.32	273.24	11.08	--	--	--	--	--	--	--	--
01/11/95	284.32	278.94	5.38	--	--	120	15	<0.5	3.1	2.7	--
04/24/95	284.32	276.54	7.78	--	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/31/95	284.32	274.38	9.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	284.32	273.74	10.58	--	--	--	--	--	--	--	--
01/16/96	284.32	274.52	9.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	284.32	276.57	7.75	--	--	--	--	--	--	--	--
07/22/96	284.32	274.82	9.50	--	--	59	18	<0.5	1.0	<0.5	<2.5
10/10/96	284.32	273.63	10.69	--	--	--	--	--	--	--	--
01/09/97	284.32	276.95	7.37	--	--	<50	0.60	<0.5	<0.5	<0.5	<2.5
04/15/97	284.32	275.63	8.69	--	--	--	--	--	--	--	--
07/08/97	284.32	276.12	8.20	--	--	SAMPLES LOST		--	--	--	--
07/15/97	284.32	276.02	8.30	--	--	<50	2.6	<0.5	<0.5	1.6	<2.5
10/22/97	284.32	276.79	7.53	--	--	--	--	--	--	--	--
01/12/98	284.32	278.38	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	284.32	277.35	6.97	--	--	--	--	--	--	--	--
07/08/98	284.32	274.45	9.87	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	284.32	273.51	10.81	--	--	--	--	--	--	--	--
01/27/99	284.32	273.06	11.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	284.32	275.42	8.90	--	--	--	--	--	--	--	--
07/23/99	284.32	275.00	9.32	--	--	158	14.9	<0.5	0.69	0.928	<5.0
11/01/99	284.32	272.83	11.49	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-13 (cont)											
01/20/00	284.32	274.23	10.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	284.32	275.43	8.89	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/21/00	284.32	274.87	9.45	0.00	--	--	--	--	--	--	--
07/26/00	284.32	INACCESSIBLE		--	--	--	--	--	--	--	--
10/09-10/00	284.32	274.07	10.25	0.00	--	--	--	--	--	--	--
01/08-09/01	284.32	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/01	284.32	275.17	9.15	0.00	--	<50.0	0.925	<0.500	<0.500	<0.500	<5.00
07/09-10/01	284.32	274.72	9.60	0.00	--	<50	0.66	<0.50	<0.50	<0.50	<2.5
10/10/01	284.32	274.52	9.80	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
01/07/02	284.32	276.47	7.85	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	284.32	276.11	8.21	0.00	--	--	--	--	--	--	--
07/11/02	284.32	275.54	8.78	0.00	--	<50	1.9	<0.50	<0.50	<1.5	<2.5
10/30/02	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/18/03	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/18/03[14]	284.32	274.99	9.33	0.00	--	830	31	2	6	7	<0.5
10/17/03	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/09/04	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/04[14]	284.32	275.67	8.65	0.00	--	510	15	0.7	2	2	<0.5
10/29/04	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
05/27/05	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/05[14]	284.32	275.84	8.48	0.00	--	920	24	1	18	3	<0.5
10/14/05	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06	284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/20/06	284.32	272.01	12.31	0.00	--	920	24	1	18	3	<0.5
07/20/06[14]	284.32	272.01	12.31	0.00	--	1,500	19	1	19	3	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-13 (cont)												
10/06/06		284.32	275.17	9.15	0.00	--	--	--	--	--	--	--
01/17/07		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/25/07		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/27/07[14]		284.32	274.05	10.27	0.00	--	1,100	10	0.7	10	2	<0.5
10/15/07		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/07/08		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/04/08		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/09/08[14]		284.32	274.77	9.55	0.00	--	1,200	13	1	18	3	<0.5
10/31/08		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/08/09		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/24/09		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
07/15/09[14]		284.32	274.15	10.17	0.00	--	2,400	21	1	40	8	<0.5
10/20/09		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/04/10		284.32	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/12/10		**284.32**	**MONITORED/SAMPLED ANNUALLY**			--	--	--	--	--	--	--
C-16												
03/07/90		246.69	228.19	18.50	--	--	--	--	--	--	--	--
03/09/90		246.69	--	--	--	--	ND	ND	ND	ND	ND	--
06/12/90		246.69	235.27	11.42	--	--	ND	ND	ND	ND	ND	--
09/24/90		246.69	235.30	11.39	--	--	ND	ND	ND	ND	ND	--
12/20/90		246.69	235.12	11.57	--	--	ND	ND	ND	ND	0.7	--
03/27/91		246.69	237.93	8.76	--	--	ND	ND	ND	ND	1.3	--
03/27/91	(D)	246.69	237.93	8.76	--	--	ND	ND	ND	ND	1.2	--
06/18/91		246.69	235.51	11.18	--	--	ND	ND	ND	ND	ND	--
09/12/91		246.69	234.74	11.95	--	--	ND	ND	ND	ND	ND	--
01/23/92		246.69	234.28	12.41	--	--	ND	ND	ND	ND	ND	--
04/13/92		246.69	236.00	10.69	--	--	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-16 (cont)											
08/03/92	246.69	234.49	12.20	--	--	ND	ND	ND	ND	ND	--
10/22/92	246.69	234.09	12.60	--	--	ND	ND	ND	ND	ND	--
01/18/93	246.69	237.69	9.00	--	--	ND	ND	ND	ND	ND	--
04/19/93	246.69	236.80	9.89	--	--	ND	ND	ND	ND	ND	--
07/21-22/93	246.69	236.44	10.25	--	--	ND	ND	ND	ND	ND	--
10/25/93	246.69	235.73	10.96	--	--	ND	ND	ND	ND	ND	--
01/21/94	246.69	234.93	11.76	--	--	ND	ND	0.7	ND	1.0	--
04/18/94	246.69	235.47	11.22	--	--	ND	ND	ND	ND	ND	--
07/06-07/94	246.69	235.32	11.37	--	--	ND	ND	ND	ND	ND	--
10/07/94	246.69	234.30	12.39	--	--	ND	ND	ND	ND	ND	--
01/11/95	246.69	237.73	8.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	246.69	236.31	10.38	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/31/95	246.69	235.37	11.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	246.69	234.29	12.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/16/96	246.69	235.15	11.54	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	246.69	236.09	10.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/22/96	246.69	235.12	11.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96	246.69	234.25	12.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/09/97	246.69	237.16	9.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97	246.69	234.66	12.03	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	246.69	234.51	12.18	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	246.69	233.94	12.75	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	246.69	236.34	10.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	246.69	236.06	10.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98	246.69	234.62	12.07	--	--	<50	<0.5	0.51	<0.5	<0.5	<2.5
10/13/98	246.69	233.94	12.75	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/27/99	246.69	234.58	12.11	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	246.69	235.56	11.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-16 (cont)												
07/23/99		246.69	234.35	12.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99		246.69	233.57	13.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00		246.69	233.84	12.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00		246.69	234.49	12.20	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00		246.69	234.03	12.66	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00		246.69	233.80	12.89	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/08-09/01		246.69	233.73	12.96	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01		246.69	235.95	10.74	0.00	--	724[8]	<1.00	<1.00	<1.00	<1.00	<10.0
07/09-10/01		246.69	233.90	12.79	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/01		246.69	233.62	13.07	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/07/02		246.69	235.73	10.96	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02		246.69	234.87	11.82	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/11/02		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/30/02		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/29/03		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/18/03		246.69	235.04	11.65	0.00	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/18/03		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/17/03		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/20/04		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/09/04[14]		246.69	234.47	12.22	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/04		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/29/04		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
02/25/05		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
05/27/05[14]		246.69	234.63	12.06	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/14/05		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/12/06		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/20/06[14]	NP[16]	246.69	235.91	10.78	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-16 (cont)												
07/20/06		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/06/06		246.69	233.84	12.85	0.00	--	--	--	--	--	--	--
01/17/07		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/25/07[14]		246.69	234.00	12.69	0.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/15/07		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/07/08		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/04/08[14]	NP[16]	246.69	234.74	11.95	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/31/08		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/08/09		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/24/09[14]		246.69	234.47	12.22	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
10/20/09		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
01/04/10		246.69	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
04/12/10[14]		**246.69**	**236.33**	**10.36**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
C-4												
03/26/85		273.01	257.87	15.14	--	--	--	--	--	--	--	--
07/03/86		273.01	257.64	15.37	--	--	--	--	--	--	--	--
03/26/87		273.01	--	--	--	--	--	--	--	--	--	--
03/28/88		273.01	254.97	18.04	--	--	--	--	--	--	--	--
03/10/89		273.01	--	--	--	--	--	--	--	--	--	--
04/03/89		273.01	259.67	13.34	--	--	--	--	--	--	--	--
05/08/89		273.01	257.41	15.60	--	--	--	--	--	--	--	--
06/05/89		273.01	256.50	16.51	--	--	--	--	--	--	--	--
09/13/89		273.01	254.85	18.16	--	--	57,000	21,000	3,100	3,200	11,000	--

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-4 (cont)											
10/04/89	273.01	254.77	18.24	--	--	--	--	--	--	--	--
11/03/89	273.01	254.84	18.17	--	--	--	--	--	--	--	--
12/04/89	273.01	254.56	18.45	--	--	48,000	17,000	2,200	2,800	9,800	--
03/07/90	273.01	255.81	17.20	--	--	--	--	--	--	--	--
03/09/90	273.01	255.81	17.20	--	--	43,000	20,000	2,300	2,800	11,000	--
06/12/90	273.01	256.35	16.66	--	--	82,000	21,000	2,400	4,000	16,000	--
07/12/90	273.01	256.02	16.99	--	--	--	--	--	--	--	--
08/10/90	273.01	255.74	17.27	--	--	--	--	--	--	--	--
09/24/90	273.01	254.90	18.11	--	--	--	--	--	--	--	--
ABANDONED											
C-10A											
03/07/90	264.84	244.63	20.21	--	--	--	--	--	--	--	--
03/09/90	264.84	--	--	--	--	ND	1.6	0.7	0.8	3.5	--
06/12/90	264.84	245.14	19.70	--	--	ND	ND	ND	ND	ND	--
09/24/90	264.84	245.30	19.54	--	--	ND	ND	ND	ND	ND	--
12/20/90	264.84	245.00	19.84	--	--	ND	ND	ND	ND	ND	--
03/27/91	264.84	246.83	18.01	--	--	--	--	--	--	--	--
06/18/91	264.84	244.68	20.16	--	--	ND	ND	ND	ND	ND	--
09/12/91	264.84	244.27	20.57	--	--	ND	ND	ND	ND	ND	--
01/23/92	264.84	244.17	20.67	--	--	ND	ND	ND	ND	ND	--
04/13/92	264.84	245.44	19.40	--	--	53	0.9	1.3	ND	1.0	--
08/03/92	264.84	245.03	19.81	--	--	ND	ND	ND	ND	ND	--
10/22/92	264.84	245.01	19.83	--	--	ND	ND	ND	ND	0.5	--
01/18/93	264.84	247.80	17.04	--	--	ND	ND	ND	ND	ND	--
04/19/93	264.84	247.07	17.77	--	--	ND	ND	ND	ND	ND	--
04/19/93	264.84	247.28	17.56	--	--	ND	ND	ND	ND	ND	--
10/25/93	264.84	247.07	17.77	--	--	ND	ND	ND	ND	ND	--
01/21/94	264.84	246.93	17.91	--	--	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-10A (cont)											
04/18/94	264.84	247.81	17.03	--	--	ND	3.0	3.0	1.4	5.5	--
07/06-07/94	264.84	248.06	16.78	--	--	ND	ND	ND	ND	ND	--
10/07/94	264.84	247.63	17.21	--	--	ND	ND	ND	ND	ND	--
01/11/95	264.84	248.78	16.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	264.84	248.32	16.52	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/31/95	264.84	245.82	19.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	264.84	245.14	19.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/16/96	264.84	246.21	18.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	264.84	247.19	17.65	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/22/96	264.84	245.99	18.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96	264.84	245.40	19.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/09/97	264.84	248.00	16.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97	264.84	246.47	18.37	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/97	264.84	246.33	18.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	264.84	246.64	18.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	264.84	248.00	16.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	264.84	248.04	16.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98	264.84	246.89	17.95	--	--	<50	<0.5	0.57	<0.5	<0.5	<2.5
10/13/98	264.84	246.16	18.68	--	--	<50	1.3	<0.5	0.67	1.5	<2.5
01/27/99	264.84	246.96	17.88	--	--	79.2	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	264.84	247.53	17.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/99	264.84	246.27	18.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	264.84	246.75	18.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00	264.84	246.85	17.99	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	264.84	247.53	17.31	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00	264.84	247.26	17.58	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00	264.84	246.80	18.04	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

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Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-10A (cont)											
01/08-09/01	264.84	246.94	17.90	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	264.84	247.53	17.31	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
07/09-10/01	264.84	247.02	17.82	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
DESTROYED 07/2001											
C-10B											
03/07/90	264.85	243.41	21.44	--	--	--	--	--	--	--	--
06/12/90	264.85	244.91	19.94	--	--	ND	ND	ND	ND	ND	--
09/24/90	264.85	245.08	19.77	--	--	ND	ND	ND	ND	ND	--
12/20/90	264.85	244.85	20.00	--	--	ND	ND	ND	ND	ND	--
03/27/91	264.85	246.62	18.23	--	--	--	--	--	--	--	--
06/18/91	264.85	244.41	20.44	--	--	--	--	--	--	--	--
09/12/91	264.85	244.03	20.82	--	--	ND	ND	ND	ND	ND	--
01/23/92	264.85	243.93	20.92	--	--	ND	ND	ND	ND	ND	--
04/13/92	264.85	245.17	19.68	--	--	ND	ND	ND	ND	ND	--
08/03/92	264.85	244.78	20.07	--	--	ND	ND	ND	ND	ND	--
10/22/92	264.85	244.73	20.12	--	--	ND	ND	ND	ND	ND	--
01/18/93	264.85	247.49	17.36	--	--	60	3.3	11	2.1	8.9	--
04/19/93	264.85	246.95	17.90	--	--	ND	ND	ND	ND	ND	--
07/21-22/93	264.85	246.99	17.86	--	--	ND	ND	ND	ND	ND	--
10/25/93	264.85	246.75	18.10	--	--	ND	ND	ND	ND	ND	--
01/21/94	264.85	246.62	18.23	--	--	ND	ND	ND	ND	ND	--
04/18/94	264.85	247.49	17.36	--	--	ND	ND	ND	ND	0.5	--
07/06-07/94	264.85	247.80	17.05	--	--	ND	ND	ND	ND	ND	--
10/07/94	264.85	247.31	17.54	--	--	ND	ND	ND	ND	ND	--
01/11/95	264.85	248.61	16.24	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	264.85	247.95	16.90	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/31/95	264.85	245.57	19.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	264.85	244.91	19.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-10B (cont)											
01/16/96	264.85	246.25	18.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	264.85	246.87	17.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/22/96	264.85	245.75	19.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96	264.85	245.14	19.71	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/09/97	264.85	247.65	17.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97	264.85	246.11	18.74	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/97	264.85	246.10	18.75	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	264.85	246.35	18.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	264.85	247.71	17.14	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	264.85	247.69	17.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98	264.85	246.61	18.24	--	--	<50	<0.5	0.62	<0.5	<0.5	<2.5
10/13/98	264.85	245.93	18.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/27/99	264.85	246.74	18.11	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	264.85	247.26	17.59	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/99	264.85	246.70	18.15	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	264.85	247.16	17.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00	264.85	246.62	18.23	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	264.85	247.34	17.51	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00	264.85	247.03	17.82	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00	264.85	246.62	18.23	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/08-09/01	264.85	246.72	18.13	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	264.85	247.31	17.54	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
07/09-10/01	264.85	246.80	18.05	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
DESTROYED 07/2001											
C-14											
03/07/90	270.74	255.56	15.18	--	--	--	--	--	--	--	--
03/09/90	270.74	--	--	--	--	ND	ND	ND	ND	ND	--
06/12/90	270.74	257.32	13.42	--	--	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-14 (cont)											
09/24/90	270.74	257.90	12.84	--	--	ND	ND	ND	ND	ND	--
12/20/90	270.74	254.02	16.72	--	--	ND	1.7	0.7	ND	0.7	--
03/27/91	270.74	262.74	8.00	--	--	ND	ND	ND	ND	1.3	--
06/18/91	270.74	255.53	15.21	--	--	--	--	--	--	--	--
09/12/91	270.74	255.13	15.61	--	--	ND	ND	ND	ND	ND	--
01/23/92	270.74	246.10	24.64	--	--	--	--	--	--	--	--
04/13/92	270.74	258.53	12.21	--	--	ND	ND	ND	ND	ND	--
08/03/92	270.74	256.10	14.64	--	--	ND	ND	ND	ND	ND	--
10/22/92	270.74	253.80	16.94	--	--	--	--	--	--	--	--
01/18/93	270.74	265.64	5.10	--	--	ND	ND	ND	ND	ND	--
04/19/93	270.74	263.86	6.88	--	--	--	--	--	--	--	--
07/21-22/93	270.74	259.58	11.16	--	--	ND	ND	ND	ND	ND	--
10/25/93	270.74	256.87	13.87	--	--	--	--	--	--	--	--
01/21/94	270.74	255.42	15.32	--	--	ND	ND	ND	ND	ND	--
04/18/94	270.74	254.85	15.89	--	--	--	--	--	--	--	--
07/06-07/94	270.74	258.66	12.08	--	--	ND	ND	ND	ND	ND	--
10/07/94	270.74	255.45	15.29	--	--	--	--	--	--	--	--
01/11/95	270.74	266.94	3.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	270.74	265.68	5.06	--	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/31/95	270.74	260.34	10.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	270.74	257.20	13.54	--	--	--	--	--	--	--	--
01/16/96	270.74	259.62	11.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96	270.74	265.78	4.96	--	--	--	--	--	--	--	--
07/22/96	270.74	259.89	10.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/10/96	270.74	261.44	9.30	--	--	--	--	--	--	--	--
01/09/97	270.74	269.80	0.94	--	--	56	3.80	4.20	1.10	5.0	<2.5
04/15/97	270.74	263.59	7.15	--	--	--	--	--	--	--	--
07/08/97	270.74	261.44	9.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	270.74	261.17	9.57	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-14 (cont)											
01/12/98	270.74	268.45	2.29	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	270.74	270.70	0.04	--	--	--	--	--	--	--	--
07/08/98	270.74	264.85	5.89	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	270.74	260.38	10.36	--	--	--	--	--	--	--	--
01/27/99	270.74	263.42	7.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	270.74	267.98	2.76	--	--	--	--	--	--	--	--
07/23/99	270.74	269.59	1.15	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	270.74	267.11	3.63	--	--	--	--	--	--	--	--
01/20/00	270.74	266.77	3.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	270.74	269.13	1.61	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
07/21/00	270.74	268.72	2.02	0.00	--	--	--	--	--	--	--
07/26/00	270.74	268.45	2.29	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00	270.74	267.39	3.35	0.00	--	--	--	--	--	--	--
01/08-09/01	270.74	266.72	4.02	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	270.74	268.19	2.55	0.00	--	--	--	--	--	--	--
07/09-10/01	270.74	267.56	3.18	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/01	270.74	267.69	3.05	0.00	--	SAMPLED SEMI-ANNUALLY			--	--	--
01/07/02	270.74	270.71	0.03	0.00	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	270.74	267.49	3.25	0.00	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED											
C-15											
03/07/90	246.15	235.05	11.10	--	--	--	--	--	--	--	--
03/09/90	246.15	--	--	--	--	410	ND	1.4	0.5	0.6	--
06/12/90	246.15	235.37	10.78	--	--	420	11	ND	ND	ND	--
09/24/90	246.15	235.22	10.93	--	--	430	ND	1.5	ND	ND	--
12/20/90	246.15	235.07	11.08	--	--	300	1.3	1.1	0.6	1.5	--
03/27/91	246.15	237.65	8.50	--	--	520	4.6	1.1	ND	1.0	--
06/18/91	246.15	235.32	10.83	--	--	290	ND	1.1	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-15 (cont)												
06/18/91	(D)	246.15	235.32	10.83	--	--	320	ND	1.3	ND	ND	--
09/12/91		246.15	235.10	11.05	--	--	330	ND	0.9	ND	ND	--
01/23/92		246.15	235.35	10.80	--	--	210	ND	0.6	ND	ND	--
01/23/92	(D)	246.15	235.35	10.80	--	--	190	1.2	0.8	ND	ND	--
04/13/92		246.15	236.57	9.58	--	--	430	1.8	ND	ND	ND	--
08/03/92		246.15	234.94	11.21	--	--	640	ND	2.1	0.7	1.3	--
10/22/92		246.15	234.50	11.65	--	--	420	ND	ND	ND	0.8	--
01/18/93		246.15	239.03	7.12	--	--	640	7.0	3.0	2.9	6.7	--
04/19/93		246.15	237.22	8.93	--	--	260	6.0	2.0	0.7	ND	--
07/21-22/93		246.15	236.37	9.78	--	--	580	ND	8.0	ND	0.6	--
10/25/93		246.15	236.41	9.74	--	--	240	ND	12	ND	0.6	--
01/21/94		246.15	235.78	10.37	--	--	420	0.6	ND	0.6	ND	--
04/18/94		246.15	236.19	9.96	--	--	550	1.0	4.6	0.6	ND	--
07/06-07/94		246.15	235.92	10.23	--	--	660	0.7	ND	ND	0.7	--
10/07/94		246.15	235.47	10.68	--	--	440	13	0.8	ND	1.2	--
01/11/95		246.15	238.84	7.31	--	--	750	2.5	<0.5	<0.5	0.6	--
04/24/95		246.15	237.41	8.74	--	--	850	<0.5	<0.5	<0.5	<0.5	--
07/31/95		246.15	235.41	10.74	--	--	640	<0.5	1.6	<0.5	<0.5	--
10/02/95		246.15	234.83	11.32	--	--	560	<0.5	<0.5	<0.5	<0.5	--
01/16/96		246.15	235.58	10.57	--	--	740	<0.5	<0.5	<0.5	<0.5	<2.5
04/18/96		246.15	237.55	8.60	--	--	760	<0.5	<0.5	<0.5	<0.5	<2.5
07/22/96		246.15	235.57	10.58	--	--	690	<0.5	1.60	<0.5	<0.5	7.90
10/10/96		246.15	234.97	11.18	--	--	870	7.0	2.10	<0.5	<0.5	11
01/09/97		246.15	238.83	7.32	--	--	370	2.60	1.10	<0.5	<0.5	4.60
04/15/97		246.15	235.76	10.39	--	--	510	22	<0.5	<0.5	<0.5	<2.5
07/08/97		246.15	235.68	10.47	--	--	490	71	6.80	22	48	7.0
10/22/97		246.15	235.01	11.14	--	--	790	2.30	1.80	<0.5	<0.5	5.10
01/12/98		246.15	238.17	7.98	--	--	400	13	<1.0	<1.0	<1.0	<5.0

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Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-15 (cont)											
04/21/98	246.15	238.05	8.10	--	--	770	<0.5	0.6	0.82	0.51	<2.5
07/08/98	246.15	235.65	10.50	--	--	540	13	<0.5	<0.5	<0.5	<2.5
10/13/98	246.15	234.95	11.20	--	--	<50	<0.5	<0.5	<0.5	0.54	<2.5
01/27/99	246.15	235.53	10.62	--	--	769	<0.5	1.88	0.675	<0.5	4.35
04/27/99	246.15	236.91	9.24	--	--	612	2.57	1.79	<0.5	<0.5	<5.0
07/23/99	246.15	235.11	11.04	--	--	626	13.6	<0.5	<0.5	<0.5	<5.0
11/01/99	246.15	235.25	10.90	--	--	739	21.9	4.54	1.45	1.28	17.3
01/20/00[6]	246.15	235.06	11.09	--	--	465	1.43	0.815	<0.5	<0.5	<5.0
04/28-29/00	246.15	235.85	10.30	0.00	--	470[3]	2.9	3.2	<0.50	<0.50	8.0
07/21/00	246.15	235.19	10.96	0.00	--	610[3]	2.1	3.5	<0.50	1.7	7.9
10/09-10/00	246.15	235.01	11.14	0.00	--	527[5]	<0.500	<0.500	<0.500	<0.500	10.3
01/08-09/01	246.15	235.07	11.08	0.00	--	677[7]	3.86	0.862	<0.500	<0.500	12.1
04/30/01	246.15	235.38	10.77	0.00	--	690[8]	<1.00	<1.00	<1.00	<1.00	11.0
07/09-10/01	246.15	234.93	11.22	0.00	--	510[3]	30	1.6	<0.50	1.2	11
10/10/01	246.15	234.83	11.32	0.00	--	780	1.7	<1.0	<0.50	<1.5	7.0
01/07/02	246.15	238.04	8.11	0.00	--	260	2.0	<0.50	<0.50	<1.5	4.4
04/11/02	246.15	236.86	9.29	0.00	--	470	1.9	<1.0	<0.50	<1.5	4.9
07/11/02	246.15	235.34	10.81	0.00	--	1,000	<2.0	4.6	<0.50	<1.5	6.3
10/30/02	246.15	235.03	11.12	0.00	--	580	1.9	<1.0	<0.50	<1.5	8.2
01/29/03	246.15	237.44	8.71	0.00	--	250	0.88	0.95	<0.50	<1.5	2.7/2[11]
04/18/03	246.15	240.09	6.06	0.00	--	360	1.2	1.4	<0.5	<1.5	4.9
07/18/03[14]	246.15	235.46	10.69	0.00	--	350	<0.5	<0.5	<0.5	<0.5	5
10/17/03[14]	246.15	235.39	10.76	0.00	--	690	<0.5	<0.5	<0.5	<0.5	5
01/20/04[14]	246.15	236.78	9.37	0.00	--	310	<0.5	<0.5	<0.5	<0.5	3
04/09/04[14]	246.15	236.34	9.81	0.00	--	610	<0.5	<0.5	<0.5	<0.5	3
07/09/04[14]	246.15	235.31	10.84	0.00	--	640	<0.5	<0.5	<0.5	<0.5	5
02/25/05[14]	246.15	239.07	7.08	0.00	--	53	<0.5	<0.5	<0.5	<0.5	1
05/27/05[14]	246.15	238.21	7.94	0.00	--	500	<0.5	<0.5	<0.5	<0.5	4

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
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WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-15 (cont)												
07/15/05[14]		246.15	235.77	10.38	0.00	--	570	<0.5	<0.5	<0.5	<0.5	5
10/14/05[14]		246.15	235.33	10.82	0.00	--	380	<0.5	<0.5	<0.5	0.6	5
01/12/06[14]		246.15	240.28	5.87	0.00	--	400	<0.5	<0.5	<0.5	<0.5	5
07/20/06[14]	NP[16]	246.15	233.74	12.41	0.00	--	760	<0.5	<0.5	<0.5	<0.5	4
10/06/06[14]		246.15	235.52	10.63	0.00	--	780	<0.5	<0.5	<0.5	<0.5	4
01/17/07[14]	NP[16]	246.15	235.64	10.51	0.00	--	670	<0.5	<0.5	<0.5	<0.5	4
04/25/07[14]		246.15	235.86	10.29	0.00	--	420	<0.5	<0.5	<0.5	<0.5	4
07/27/07[14]		246.15	235.20	10.95	0.00	--	870	<0.5	<0.5	<0.5	<0.5	5
10/15/07[14]		246.15	235.47	10.68	0.00	--	790	<0.5	<0.5	<0.5	<0.5	5
01/07/08[14]	NP[16]	246.15	236.09	10.06	0.00	--	810	<0.5	<0.5	<0.5	<0.5	5
04/04/08[14]	NP[16]	246.15	236.57	9.58	0.00	--	400[19]	<0.5	<0.5	<0.5	<0.5	3
07/09/08[14]	NP[16]	246.15	235.17	10.98	0.00	--	520	<0.5	1	<0.5	1	6
DESTROYED												
RW												
12/04/89		--	--	--	--	--	62,000	29,000	1,700	1,800	8,800	--
03/07/90		274.52	256.02	18.50	--	--	--	--	--	--	--	--
06/12/90		274.52	256.03	18.49	--	--	31,000	15,000	2,000	560	3,100	--
09/24/90		274.52	--	--	--	--	--	--	--	--	--	--
12/20/90		274.52	--	--	--	--	ND	0.5	ND	ND	1.2	--
03/27/91		274.52	--	--	--	--	--	--	--	--	--	--
06/18/91		274.52	--	--	--	--	--	--	--	--	--	--
09/12/91		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
01/23/92		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
04/13/92		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
08/03/92		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
10/22/92		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
01/18/93		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
04/19/93		274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
RW (cont)											
07/21-22/93	274.52	INSUFFICIENT WATER		--	--	--	--	--	--	--	--
10/25/93	274.52	--	--	--	--	--	--	--	--	--	--
01/21/94	274.52	--	--	--	--	--	--	--	--	--	--
04/18/94	274.52	--	--	--	--	--	--	--	--	--	--
07/06-07/94	274.52	--	--	--	--	--	--	--	--	--	--
10/07/94	274.52	--	--	--	--	--	--	--	--	--	--
10/24/95	274.52	256.63	17.89	--	--	37,000	11,000	380	1,100	3,000	--
01/16/96	274.52	259.09	15.43	--	--	59,000	17,000	660	1,600	5,400	<1000
NOT MONITORED/SAMPLED											
TRIP BLANK											
01/11/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/24/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/31/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/02/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/16/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/18/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/22/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/10/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/09/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/15/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/22/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/12/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/21/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK (cont)											
10/13/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/27/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/27/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/01/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/20/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
04/28-29/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/21/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/26/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/09-10/00	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
01/08-09/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/30/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
07/09-10/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA											
10/10/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/07/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/11/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/11/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/30/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/29/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/18/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/18/03[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/04[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/04[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/29/04[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH Removed (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)											
05/27/05[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/07[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09[14]	--	--	--	--	--	<50	<0.5	1[20]	<0.5	<0.5	<0.5
01/04/10[14]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10[14]	**--**	**--**	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to April 28, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
SPHT = Separate Phase Hydrocarbon Thickness
SPH = Separate Phase Hydrocarbons
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
(µg/L) = Micrograms per liter
(D) = Duplicate
-- = Not Measured/Not Analyzed
ND = Not Detected
QA = Quality Assurance/Trip Blank

** GWE corrected for the presence of SPH, correction factor: [(TOC - DTW) + (SPHT x 0.80)].

1 Confirmation run.
2 Chromatogram pattern indicates an unidentified hydrocarbon.
3 Laboratory report indicates gasoline C6-C12.
4 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
5 Laboratory report indicates weathered gasoline C6-C12.
6 Insufficient Preservative to reduce sample pH to less than 2. Sample was analyzed within 14 days, but beyond the seventh day recommended for Benzene, Toluene, Xylenes, and Ethylbenzene.
7 Laboratory report indicates weathered gasoline C6-C12 + unidentified hydrocarbons C6-C12.
8 Laboratory report indicates unidentified hydrocarbons C6-C12.
9 Pump in well.
10 Product + water removed.
11 MTBE by EPA Method 8260
12 Pump removed from well.
13 TOC altered; unable to determine GWE.
14 BTEX and MTBE by EPA Method 8260.
15 Current laboratory analytical results do not coincide with historical data, and although the laboratory results were confirmed; it appears that the samples may have been switched.
16 Unable to purge well; well located on a steep hill.
17 10 milliliters of SPH and 0.5 gallons of water removed from well.
18 No Purge sample taken; well inaccessible with truck.
19 Laboratory report indicates the sample was analyzed 12 days outside the method hold time.
20 The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-1								
10/13/98	<10,000	<2,000	<40	<40	<40	<40	--	--
01/29/03	--	110	2	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	<50	26	2	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03	<200	27	<2	<2	<2	<2	<2	<2
01/20/04	<50	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	<100	31	2	<1	<1	<1	<1	<1
07/09/04	<100	<10	<1	<1	<1	<1	<1	<1
10/29/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	<50	14	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05	<130	13	<1	<1	<1	<1	<1	<1
01/12/06	<50	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	<50	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06	<50	11	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06	<50	8	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	<50	16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07	<100	12	<1	<1	<1	<1	<1	<1
10/15/07	<50	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	<50	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08	<100	11	<1	<1	<1	<1	<1	<1
10/31/08	<100	9	<1	<1	<1	<1	<1	<1
01/08/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	<50	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	10	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
01/04/10	<50	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-2								
01/29/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	SAMPLED ANNUALLY		--	--	--	--	--	--
01/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-3								
01/29/03	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
07/18/03	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
10/17/03	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
01/20/04	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
04/09/04	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
10/29/04	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
02/25/05	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
05/27/05	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
07/15/05	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
10/14/05	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
01/12/06	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
04/20/06	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
10/06/06	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
01/17/07	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
04/25/07	<250	22	7	<3	<3	<3	<3	<3
07/27/07	<1,000	<40	<10	<10	<10	<10	<10	<10
10/15/07	<500	54	<5	<5	<5	<5	<5	<5
01/07/08	<1,000	<40	<10	<10	<10	<10	<10	<10
04/04/08	<250	48	5	<3	<3	<3	<3	<3

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-3 (cont)								
07/09/08	<500	77	<5	<5	<5	<5	<5	<5
10/31/08	<1,300	67	<13	<13	<13	<13	<13	<13
01/08/09	<500	76	<5	<5	<5	<5	<5	<5
04/24/09	<500	85	<5	<5	<5	<5	<5	<5
07/15/09	<500	85	<5	<5	<5	<5	<5	<5
10/20/09	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
01/04/10	<500	95	<5	<5	<5	<5	<5	<5
C-5								
01/29/03	--	<5	<0.5	3	<0.5	<0.5	<0.5	<0.5
07/18/03	SAMPLED ANNUALLY		--	--	--	--	--	--
01/20/04	<50	<5	<0.5	3	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	<5	<0.5	2	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	1	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	<2	<0.5	1	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	1	<0.5	<0.5	<0.5	<0.5
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-6								
01/29/03	--	150	13	<5	<5	<5	<5	<5
07/18/03	<2,000	<200	<20	<20	<20	<20	<20	<20
10/17/03	<1,000	140	<10	<10	<10	<10	<10	<10
01/20/04	<500	100	16	<5	<5	<5	<5	<5
04/09/04	<1,000	<100	18	<10	<10	<10	<10	<10
07/09/04	<100	74	18	<1	<1	<1	1	<1
10/29/04	<1,000	<100	17	<10	<10	<10	<10	<10
02/25/05	<1,000	110	12	<10	<10	<10	<10	<10
05/27/05	<500	92	11	<5	<5	<5	<5	<5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-6 (cont)								
07/15/05	<1,000	<100	12	<10	<10	<10	<10	<10
10/14/05	<1,300	<130	<13	<13	<13	<13	<13	<13
01/12/06	<50	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	<1,000	<100	<10	<10	<10	<10	<10	<10
07/20/06	<1,000	<100	<10	<10	<10	<10	<10	<10
10/06/06	<1,000	<100	<10	<10	<10	<10	<10	<10
01/17/07	<2,500	<100	<25	<25	<25	<25	<25	<25
04/25/07	<1,000	69	<10	<10	<10	<10	<10	<10
07/27/07	<1,000	61	<10	<10	<10	<10	<10	<10
10/15/07	<1,000	180	10	<10	<10	<10	<10	<10
01/07/08	<1,300	<50	<13	<13	<13	<13	<13	<13
04/04/08	<100	78	5	<1	<1	<1	<1	<1
07/09/08	<500	70	7	<5	<5	<5	<5	<5
10/31/08	<1,000	340	13	<10	<10	<10	<10	<10
01/08/09	<1,000	310	<10	<10	<10	<10	<10	<10
04/24/09	<1,000	100	13	<10	<10	<10	<10	<10
07/15/09	<250	120	13	<3	<3	<3	<3	<3
10/20/09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
01/04/10	<250	92	15	<3	<3	<3	<3	<3
C-7								
01/29/03	--	<5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
07/18/03	<50	<5	<0.5	2	<0.5	<0.5	<0.5	<0.5
10/17/03	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
01/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/04	<50	<5	<0.5	2	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	<50	<5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-7 (cont)								
01/17/07	<50	<2	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
07/27/07	<50	<2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	<2	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
07/09/08	<50	<2	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	2	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	<2	<0.5	1	<0.5	<0.5	<0.5	<0.5
10/20/09	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-8								
01/29/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	SAMPLED ANNUALLY		--	--	--	--	--	--
01/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-9								
01/29/03	INACCESSIBLE - PUMP STUCK IN WELL			--	--	--	--	--
07/18/03	<130	29	<1	<1	<1	<1	<1	<1
10/17/03	<250	<25	<3	<3	<3	<3	<3	<3
01/20/04	<100	66	<1	<1	<1	<1	<1	<1
04/09/04	<250	66	<3	<3	<3	<3	<3	<3
07/09/04	<250	<25	<3	<3	<3	<3	<3	<3
10/29/04	<50	<5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	79	0.7	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-9 (cont)								
05/27/05	<250	<25	<3	<3	<3	<3	<3	<3
07/15/05	<250	<25	<3	<3	<3	<3	<3	<3
10/14/05	<250	<25	<3	<3	<3	<3	<3	<3
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	<100	45	3	<1	<1	<1	<1	<1
07/20/06	<500	<50	<5	<5	<5	<5	<5	<5
10/06/06	<50	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<250	43	3	<3	<3	<3	<3	<3
04/25/07	<500	46	<5	<5	<5	<5	<5	<5
07/27/07	<250	42	3	<3	<3	<3	<3	<3
10/15/07	<50	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	<250	41	3	<3	<3	<3	<3	<3
07/09/08	<50	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08	<130	16	1	<1	<1	<1	<1	<1
01/08/09	<250	34	3	<3	<3	<3	<3	<3
04/24/09	<50	5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	9	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/10	<250	28	<3	<3	<3	<3	<3	<3
04/12/10	**<50**	**10**	**0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
C-11								
01/29/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	SAMPLED ANNUALLY		--	--	--	--	--	--
01/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<2,500	<250	<25	<25	<25	<25	<25	<25
07/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-11 (cont)								
04/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-12								
02/25/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/29/03	--	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	<50	<5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/29/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<100	<10	<1	<1	<1	<1	<1	<1
05/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-12 (cont)								
01/17/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
01/08/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	<2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
10/20/09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
01/04/10	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-13								
07/18/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03	SAMPLED ANNUALLY		--	--	--	--	--	--
07/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-16								
04/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	SAMPLED ANNUALLY		--	--	--	--	--	--
04/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-16 (cont)								
04/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/24/09	<50	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
04/12/10	**<50**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
C-15								
01/29/03	--	8	2	<0.5	<0.5	<0.5	<0.5	<0.5
07/18/03	<50	28	5	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/03	<50	29	5	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/04	<50	17	3	<0.5	<0.5	<0.5	<0.5	<0.5
04/09/04	<50	17	3	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/04	<50	23	5	<0.5	<0.5	<0.5	<0.5	<0.5
10/29/04	<50	31	5	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/05	<50	8	1	<0.5	<0.5	<0.5	<0.5	<0.5
05/27/05	<50	32	4	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05	<50	33	5	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05	<50	30	5	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	30	5	<0.5	<0.5	<0.5	<0.5	<0.5
04/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
07/20/06	<50	36	4	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/06	<50	27	4	<0.5	<0.5	<0.5	<0.5	<0.5
01/17/07	<50	33	4	<0.5	<0.5	<0.5	<0.5	<0.5
04/25/07	<50	32	4	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07	<50	40	5	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/07	<50	35	5	<0.5	<0.5	<0.5	<0.5	<0.5
01/07/08	<50	40	5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607

5269 Crow Canyon Road

Castro Valley, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-15 (cont)								
04/04/08	<50	30	3	<0.5	<0.5	<0.5	<0.5	<0.5
07/09/08	<50	39	6	<0.5	<0.5	<0.5	<0.5	<0.5
DESTROYED								

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to January 29, 2003, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
(µg/L) = Micrograms per liter
-- = Not Analyzed
SPH = Separate Phase Hydrocarbons

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

APPENDIX E

NORCAL'S GEOPHYSICAL REPORT AND ALAMEDA COUNTY PUBLIC WORKS' SEWER MAP

NORCAL GEOPHYSICAL CONSULTANTS, INC.

July 31, 2012

Ms. Margareta Wolf
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject: Geophysical Survey
Former Chevron #95607, 5269 Crow Canyon Road, Castro Valley, CA
NORCAL Job No. 12-462.126

Dear Ms. Wolf:

This report presents the findings of a geophysical survey performed by NORCAL Geophysical Consultants, Inc. on a portion of the subject property in Castro Valley, CA. The field survey was conducted on July 18, 2012 by NORCAL California Professional Geophysicist Donald J. Kirker and geophysical technician Anna G. Brody. Site information and logistical support were provided by Margareta Wolf of Conestoga-Rovers & Associates (CRA).

1.0 SITE DESCRIPTION AND PURPOSE

The former Chevron service station is located on the southeast corner of Crow Canyon Road and Waterford Place in Castro Valley. The station building is still intact. However, the pump islands and fuel dispensers, canopy, and underground storage tanks have been removed. The property is currently being used as an auto repair facility. Down slope and west of this facility is Waterford Place, a private drive that accesses a condominium complex. This complex comprises two story buildings and various parking lots.

The geophysical investigation, as specified by CRA, was conducted in a 17,000 square foot area that includes the sidewalk in front of the subject property, a small (966 square foot) area within the west portion of the property, and a larger portion of the adjacent condominium complex. This includes Waterford Place and an adjacent parking lot. The limits of the survey area are shown as a green dashed line on Plate 1. With exception to various planters, the survey area is primarily covered with asphalt paving. The survey area is generally free of above ground cultural features, except for two vehicles within the small area on the station property.

As part of ongoing work at the property, CRA is gathering information to assess potential groundwater movement beneath the site. Therefore, the purpose of the geophysical investigation is to investigate the survey area for detectable underground utilities and other features that may act as preferential pathways for this movement.

2.0 FIELD INVESTIGATIONS

2.1 EQUIPMENT

We investigated the designated survey area using the electromagnetic line locating/metal detection (EMLL) and ground penetrating radar (GPR) methods. The EMLL method was used in the electromagnetic conduction, ambient, and metal detection (MD) modes. The conduction

mode was used to locate metal utilities that are accessible from the surface in at least one location. This is typically done by applying a current to a line by directly connecting the transmitter to the exposed utility through a vault or a hose bib. The ambient procedure was used to locate utilities that exhibit currents already flowing on the line (passive signals). The most common passive signals are generated by live electric lines, water lines acting as electrical grounds, and metal pipes re-radiating radio signals.

The MD mode was used to locate metal utilities that are not accessible at the surface, and isolated buried objects such as USTs, utility vaults, and other debris. This is done by holding the transmitter-receiver unit above the ground and continuously scanning over the surface. Metallic utilities and isolated objects will produce a response indicating when the unit is directly over the metal object.

The GPR method was used to confirm the location of the utilities detected with the EMLL, and to locate possible non-metallic utilities. Since GPR depth of detection is based on site specific soil conditions, not all subsurface features are detectable. Descriptions of the MD, EMLL, and GPR methods are provided in Appendix A.

2.2 FIELD PROCEDURES

We investigated the designated survey area for detectable underground utilities and other potential subsurface features. A brief description of our field procedures are presented below:

A. Site Reconnaissance: We visually inspected the area to locate visible utility vaults, valves, clean-outs, meters, and hose bibs.

B. EMLL Direct Connect and Induction Survey: We traced accessible utilities using the EMLL direct connect and induction methods, as described above.

C. EMLL Ambient Survey: We used the EMLL ambient procedure to investigate the survey area for non-accessible utilities emitting a passive signal, as described above.

D. EMLL Metal Detection (MD) Survey: We scanned the survey area with the MD along both south-north and west-east traverses spaced approximately 5- to 20-ft apart to investigate for metal utilities that were not accessible at the surface. Since the specific type of utility (i.e. water, gas, etc.) cannot be determined by this method, they are referred to as undifferentiated utilities.

E. GPR Survey: We obtained GPR data along south-north and/or west-east trending traverses spaced every 2.5-ft apart over accessible portions of the survey area. We examined the GPR records for reflection patterns characteristic of underground utilities and other potential subsurface objects.

F. Field Documentation: Upon completion of the area survey, we drafted a scaled site diagram showing the limits of the designated survey area, structures or above ground cultural features that are in close proximity to the site, and the locations of detected subsurface objects and utility alignments.

3.0 LIMITATIONS

3.1 ELECTROMAGNETIC LINE LOCATING

The detection of underground utilities is dependent upon the composition and construction of the line of interest, as well as depth. Utilities detectable with standard line location techniques include any continuously connected metal pipes, cables/wires or utilities with tracer wires. Unless carrying a passive current these utilities must be exposed at the surface or accessible in utility vaults. These generally include water, electric, natural gas, telephone, and other conduits related to facility operations. Utilities that may not be detectable using standard electromagnetic line location techniques may include certain abandoned utilities, utilities not exposed at the ground surface, or those made of non-electrically conductive materials such as PVC, fiberglass, vitrified clay, and metal pipes with insulating joints. Also, pipes generally deeper than about five to seven feet may not be detected.

3.2 GROUND PENETRATING RADAR

The ability to detect subsurface targets is dependent on site specific conditions. These conditions include depth of burial, the size or diameter of the target, the condition of the specific target in question, the type of backfill material associated with the target, and the surface conditions over the target. Under ideal conditions, the GPR can generally detect objects buried to approximately 4- to 6-ft. However, as the clay content in the subsurface increases, the GPR depth of detection decreases. Therefore, it is possible that on-site soil conditions and target features may limit the depth of detection to the upper 1- to 3-ft below ground surface.

4.0 RESULTS

The results of the geophysical survey are presented on the Geophysical Survey Map, Plate 1. This map shows the limits of the designated survey areas, structures or above ground cultural features that are in close proximity, and the locations of the detected utility alignments and subsurface features.

The results of the EMLL, MD, and GPR surveys defined the location of numerous utility alignments. As shown on Plate 1, electric, telecommunications, natural gas, water, storm drain, and sanitary sewer lines were defined. In general, most of the electric, telecommunications, and natural gas lines are located within a common trench that trends down Waterford Place and into the adjacent parking area. There are also isolated electric and telecommunication lines that cross Waterford Place and the drive entering the parking lot, as well as the small area within the station property. The water line trends down the center of Waterford Place and tees into the parking area where it feeds the individual condominium units.

The storm drain and sanitary sewer lines generally trend south onto Waterford Place from the condominiums. It should be noted that the storm drain and sanitary sewer lines were buried deeper than the detection capabilities of the GPR (greater than about 3- to 4-ft). Therefore, their locations are based on line-of-site between man-way covers and catch basins.

5.0 STANDARD CARE AND WARRANTY

The scope of NORCAL's services for this project consisted of using geophysical methods to explore the area of investigation for underground utilities. The accuracy of our findings is subject to specific site conditions and limitations inherent to the techniques used. We performed our services in a manner consistent with the level of skill ordinarily exercised by members of the profession currently employing similar methods. No warranty, with respect to the performance of services or products delivered under this agreement, expressed or implied, is made by NORCAL.

We appreciate having the opportunity to provide our geophysical services to Conestoga-Rovers & Associates. If you have any questions, or require additional geophysical services, please do not hesitate to call.

Respectfully,

NORCAL Geophysical Consultants, Inc.

Donald J. Kirker

Donald J. Kirker
Geophysicist, PGp-997

DJK/KGB/tt

Enclosure: Plate 1
Appendix A: GEOPHYSICAL METHODOLOGY

Appendix A

GEOPHYSICAL METHODOLOGY

Appendix A

ELECTROMAGNETIC LINE LOCATION/METAL DETECTION (EMLL/MD)

METHODOLOGY

Electromagnetic line location techniques (EMLL) are used to locate the magnetic field resulting from an electric current flowing on a line. These magnetic fields can arise from currents already on the line (passive) or currents applied to a line with a transmitter (active). The most common passive signals are generated by live electric lines and re-radiated radio signals. Active signals can be introduced by connecting the transmitter to the line at accessible locations or by induction.

The detection of underground utilities is affected by the composition and construction of the line in question. Utilities detectable with standard line location techniques include any continuously connected metal pipes, cables/wires or utilities with tracer wires. Unless the utilities carry a passive current, they must be exposed at the surface or in accessible utility vaults. These generally include water, electric, natural gas, telephone, and other conduits related to facility operations. Utilities that are not detectable using standard electromagnetic line location techniques include those made of non-electrically conductive materials such as PVC, fiberglass, vitrified clay, and pipes with insulated connections.

Buried objects can also be detected, without direct contact, by using the metal detection technique (MD). This is used to detect buried near surface metal objects such as rebar, manhole covers, USTs, and various metallic debris. The MD transmitter-receiver unit is held above the ground and continuously scanned over the surface. The unit utilizes two orthogonal coils that are separated by a specified distance. One of the coils transmits an electromagnetic signal (primary magnetic field) which in turn produces a secondary magnetic field about the subsurface metal object. Since the receiver coil is orthogonal to the transmitter coil, it is unaffected by the primary field. Therefore, the secondary magnetic fields produced by buried metal object will generate an audible response from the unit. The peak of this response indicates when the unit is directly over the metal object.

The instrumentation we used for the EMLL and MD survey consists of a Radio Detection RD-400 and a Fisher TW-6 inductive pipe and cable locator.

DATA ANALYSIS

The EMLL/MD instrumentation indicates the presence of buried metal by emitting an audible tone; there are no recorded data to analyze. Therefore, the locations of buried objects detected with these methods are marked on the ground surface during the survey.

LIMITATION

The detection of underground utilities is dependent upon the composition and construction of the line of interest, as well as depth. Utilities detectable with standard line location techniques include any continuously connected metal pipes, cables/wires or utilities with tracer wires. Unless carrying a passive current these utilities must be exposed at the surface or accessible in utility vaults. These generally include water, electric, natural gas, telephone, and other conduits

related to facility operations. Utilities that may not be detectable using standard electromagnetic line location techniques include certain abandoned utilities, utilities not exposed at the ground surface, or those made of non-electrically conductive materials such as PVC, fiberglass, vitrified clay, and metal pipes with insulating joints. Pipes generally deeper than about five to seven feet may not be detected.

GROUND PENETRATING RADAR (GPR)

METHODOLOGY

Ground penetrating radar is a method that provides a continuous, high resolution cross-section depicting variations in the electrical properties of the shallow subsurface. The method is particularly sensitive to variations in electrical conductivity and electrical permittivity (the ability of a material to hold a charge when an electrical field is applied).

The GPR system operates by radiating electromagnetic pulses into the ground from a transducer (antenna) as it is moved along a traverse. Since most earth materials are transparent to electromagnetic energy, the signal spreads downward into the subsurface. However, when the signal encounters a variation in electrical permittivity, a portion of the electromagnetic energy is reflected back to the surface. When the signal encounters a metal object, all of the incident energy is reflected. The reflected signals are received by the same transducer and are printed in cross-section form on a graphical recorder. Changes in subsurface reflection character on the GPR records can provide information regarding the location of USTs, sumps, buried debris, underground utilities, and variations in the shallow stratigraphy.

The GPR system used was a Geophysical Survey Systems, Inc. SIR-3000 Subsurface Interface Radar Systems equipped with a 400 megahertz (MHz) transducer, respectively. This transducer is used to provide high resolution at shallow depths.

DATA ANALYSIS

GPR records are examined to identify reflection patterns characteristic of USTs, utilities, septic tanks, and other buried debris. Typically, USTs are manifested by broad localized hyperbolic (upside-down "U" shape) reflection patterns that vary in intensity. The intensity of a reflection pattern is usually dependent upon the condition of the respective UST, its burial depth, and the type of fill over the UST. Utilities and other buried debris are typically manifested by narrow localized hyperbolic reflections that also vary in intensity.

LIMITATIONS

The ability to detect subsurface targets is dependent on site specific conditions. These conditions include depth of burial, the size or diameter of the target, the condition of the specific target in question, the type of backfill material associated with the target, and the surface conditions over the target. Under ideal conditions, the GPR can generally detect objects buried to approximately six feet. However, as the clay content in the subsurface increases, the GPR depth of detection decreases. Therefore, it is possible that on-site soil conditions and target features may limit the depth of detection to the upper one to two feet below ground surface.

CROW CANYON ROAD

SIDEWALK

PLANTER

(AC)

BUILDING

PARKING AREA

PLANTER

WATERFORD PLACE

(AC)

BUILDING

(AC)

SIDEWALK

RETAINING WALL

PLANTER

PLANTER

VEHICLE

VEHICLE

FORMER CHEVRON SERVICE STATION PROPERTY

SHED

PLANTER

BUILDING

(AC)

(AC)

BUILDING

BUILDING

(AC)

LEGEND

	DESIGNATED SURVEY LIMITS
E	ELECTRIC LINE
NG	NATURAL GAS LINE
SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
T	TELECOMMUNICATIONS LINE
W	WATER LINE
	POSSIBLE UTILITY LINE BASED ON GPR DATA
	SUSPECTED UTILITY LINE CONTINUATION BEYOND DETECTED LOCATION
	FIRE HYDRANT
	SANITARY SEWER MANWAY
	STORM DRAIN CATCH BASIN
	UTILITY BOX/VAULT
(AC)	ASPHALT

SCALE

0 10 20 40

(1 inch = 20 feet)

NORCAL

GEOPHYSICAL SURVEY MAP
5269 CROW CANYON ROAD

LOCATION: CASTRO VALLEY, CALIFORNIA

CLIENT: CRA

JOB #: 12-462.126

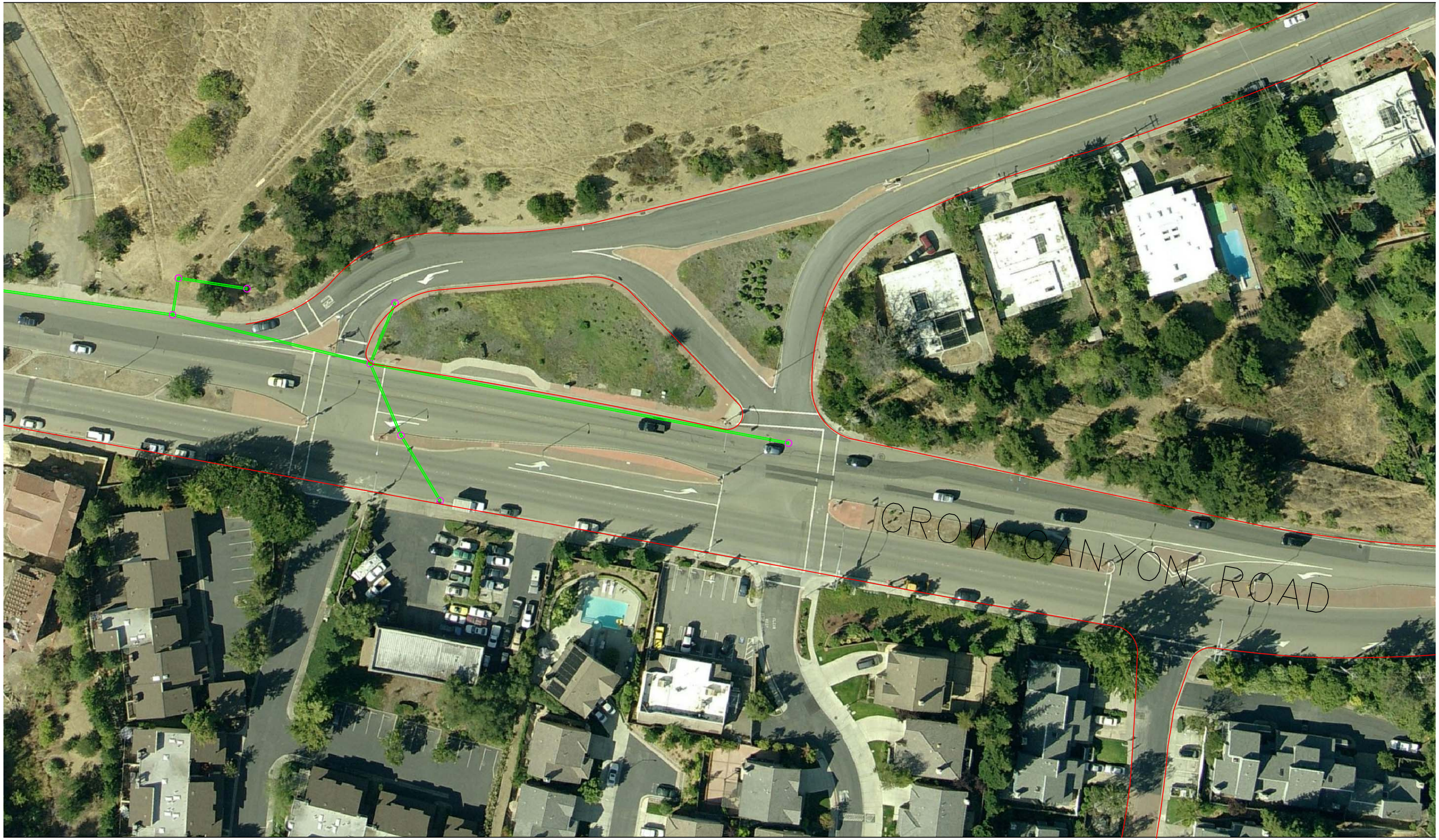
NORCAL GEOPHYSICAL CONSULTANTS INC.

DATE: JUL. 2012

DRAWN BY: G.RANDALL

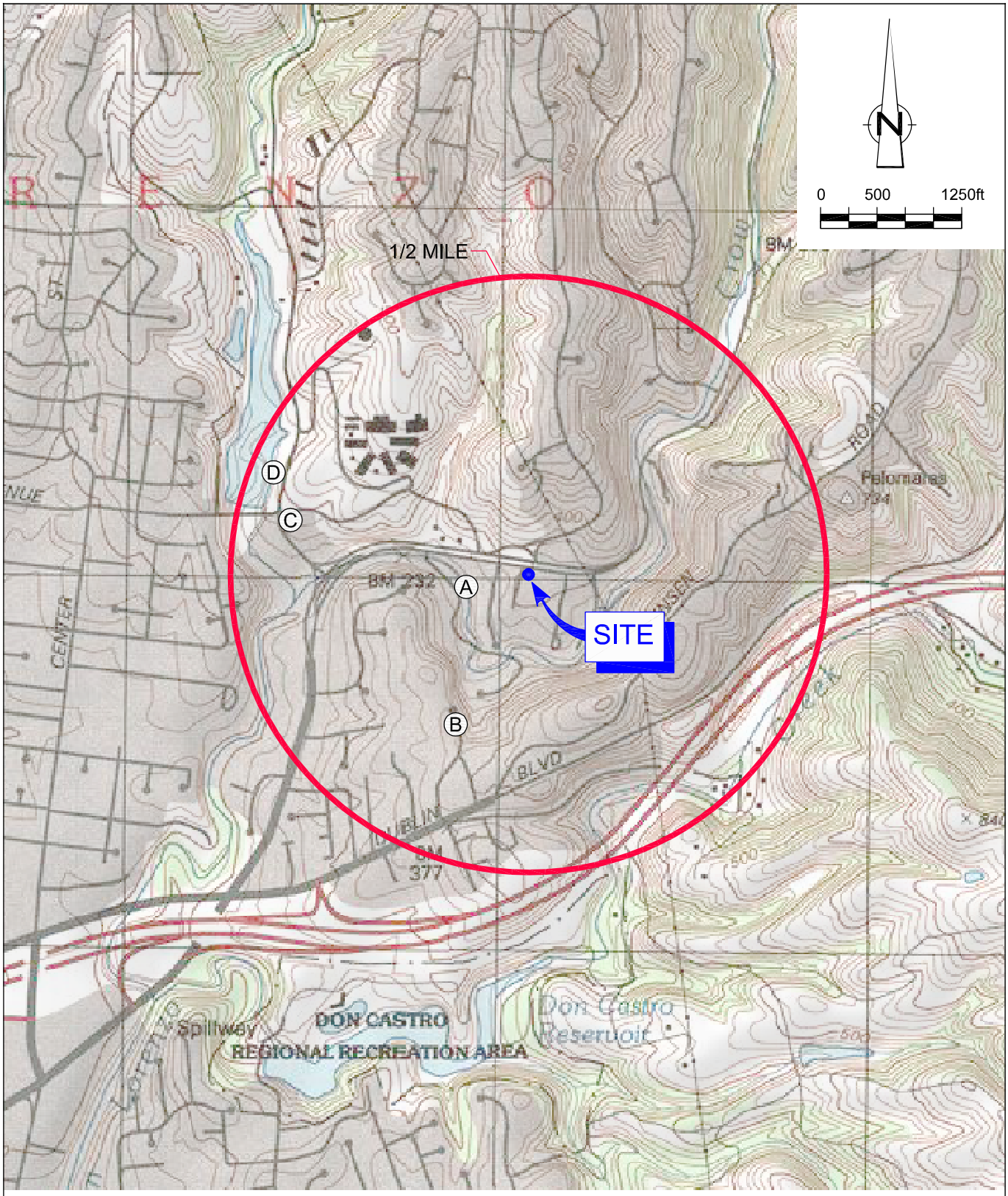
APPROVED BY: DJK

PLATE 1


CROW CANYON ROAD

APPENDIX F

SENSITIVE RECEPTOR SURVEY TABLE AND MAP



SOURCE: TOPO! MAPS.

SENSITIVE RECEPTOR MAP
FORMER CHEVRON STATION 95607
5269 CROW CANYON ROAD
Castro Valley, California

311950-95(015)GN-EM009 JUL 27/2012

TABLE F-1

AREA WELL SURVEY
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

State Well No.	*Well ID*	*Well Owner*	*Approximate Well Location, Castro Valley*	*Installation Date*	*Well Type*	*Total Depth (Feet Below Grade)*	*Screen Interval(Feet Below Grade)*
2S/2W 33L	NR	R.K. Miller	3736 Seven Hills Road	12/08/86	Domestic (Destroyed)	100	
2S/2W 36N1	NR	Norman Luengo	6630 Crow Canyon	11/24/86	Domestic	375	35-55 115-215 295-375
2S/2W 36Q3	NR	Charles Yergelevic	5915 Jensen Road	12/20/76*	Domestic	288	120-136 164-180 196-200 212-220 238-232 240-248 256-260 268-272 280-284
2S/2W 36C1	NR	Rudy Grasseschi	6495 Crow Canyon Road	06/06/75	Domestic	182	158-178
2S/2W 35F01M	CUL	USGS Menlo Park	Cull Canyon Road at Columbia Drive	09/25/91	Test Well	540	No screen
2S/2W 36Q2	NR	Moury Cox	Jensen Road	03/09/76	Domestic	208	90-204
2S/2W 36Q4	NR	Ray Napper	5755 Jensen Road	08/10/76	Domestic (Destroyed)	85	
2S/2W 36Q12	NR	Norman Clark	5814 Jensen Road	11/1977	Domestic	188	100-180
2S/2W 36Q15	NR	Bob Tucknott	5777 Jensen Road	04/12/77	Domestic	272	80-268
2S/2W 1C1	NR	H. James Knuppe	5601 Jensen Road	09/23/85	Irrigation	528	128-328 348-388 408-428 468-528
2S/2W 1C1	NR	H. James Knuppe	5601 Jensen Road	08/19/87	Irrigation (Deepening)	705	425-705
2S/2W 36Q16	NR	H. James Knuppe	5601 Jensen Road	02/10/88	Irrigation (Deepening)	682	522-682
2S/2W 36Q80	NR	Michel Cambra	1.7 acre parcel south of 5895 Jensen Road	01/14/74	Domestic	191	55-185
2S/2W 36	1	G.E. Sloat	Crow Canyon Road	11/23/54	Domestic	28	none
2S/2W 1B1	NR	Nick Keener	5895 Jensen Road	09/15/69	Domestic	254	76-104 150-248
2S/2W ____	NR	Tom Jensen	Crow Canyon Road	11/24/54	Domestic (Destroyed)	48	
3S/2W 1H3	NR	John Maciel, Jr.	6475 Sunnyslope Avenue	03/01/88	Irrigation	135	75-135
2S/2W 1H1	NR	Tim Cacy	Map# 85A-1550-4-17 (Sunnyslope Farm)	05/13/75	Domestic / Irrigation	128	76-120
3S/2W 1H4	NR	Beverly J. Lindsay	6700 Sunnyslope Avenue	08/16/90	Domestic	143	83-143
3S/2W 2E6	MW-1	Anthony's Auto Service	19592 Center Street	02/01/91	Test Well	49.5	29.5-49.5

TABLE F-1

AREA WELL SURVEY
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

State Well No.	*Well ID*	*Well Owner*	*Approximate Well Location, Castro Valley*	*Installation Date*	*Well Type*	*Total Depth (Feet Below Grade)*	*Screen Interval(Feet Below Grade)*
2S/2W 2E5	MW-2	Anthony's Auto Service	19592 Center Street	02/01/91	Test Well	39.5	24.5-39.5
2S/2W 2E5	MW-3	Anthony's Auto Service	19592 Center Street	01/31/91	Test Well	49.5	29.5-49.5
3S/2W 1R1	7847	Harold W. Myers	413 Lloyd Avenue	NR	Irrigation	30	10-30
3S/2W 2F1	1	ACFC & WCD Zone 2	Cull Dam (Heyer Road at Cull Canyon Road)	07/10/80	Observation	27	17-27
3S/2W 2F2	2	ACFC & WCD Zone 2	Cull Dam (Heyer Road at Cull Canyon Road)	07/11/80	Piezometer	19	16-19
3S/2W 2H9	RW-1	Chevron USA	5269 Crow Canyon Road	05/31/85	Monitoring	36	10-35
3S/2W 2H10	9	Chevron USA	5269 Crow Canyon Road	06/24/85	Monitoring	30	5-30
3S/2W 2H24	MW-4	Mr. Frank Ramos	5293 Crow Canyon	05/10/91	Monitoring	28	18-28
3S/2W 2H25	MW-5	Mr. Frank Ramos	5293 Crow Canyon	05/06/91	Monitoring	25	17-25
3S/2W 2N1	NR	Edith Sprague	4267 Veronica	06/03/83	NR	120	40-80 100-120
3S/2W 2F1	NR	H. J. Knuppe	Crow Canyon Place	07/05/89	Irrigation	245	25-245
3S/2S ___	NR	Dorthy L. Nixon	9263 Edwards Lane	7/21/1953	Irrigation	53	20-53

Notes:

NR - Not Recorded.

* - Well report date, drilling date not recorded.

____ - Numbers not legible.

One additonal well on Crow Canyon Road: document illegible.

TABLE F-2
SENSITIVE RECEPTOR SURVEY DATA
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

Map ID	*Facility ID/ Surface Water Body/ Well ID*	*Approximate Location/ Street Address*	*Location Relative to Site Groundwater Flow**	*Approximate Distance From Former USTs*
				(feet)
		Surface Water Bodies		
A	Crow Creek	NA	Southwest (downgradient)	380
D	Cull Canyon Lake	NA	Northwest (crossgradient)	2,245
		Schools and Daycare Facilities		
B	Independent Elementary School	21201 Independent School Road	South-southwest (crossgradient)	1,230
C	Canyon Middle Scholl	19600 Cull Canyon Road	Northwest (crossgradient)	1,380

Notes:
NA = Not applicable/ not available.

APPENDIX G

GETTLER-RYAN'S 1990 UST REMOVAL AND EXCAVATION SOIL SAMPLING MAPS

TANK REMOVAL DIAGRAM

DIAGRAM ONE

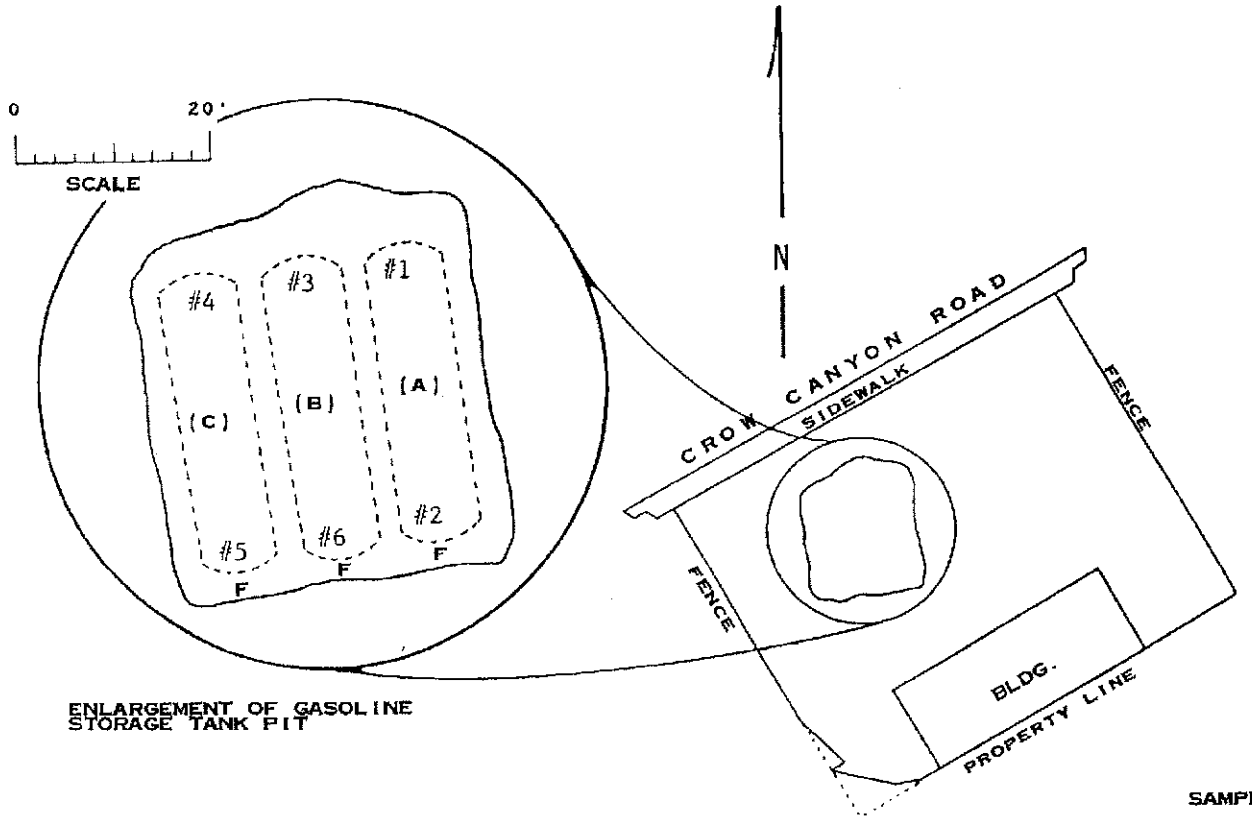
October 2, 1990 / 901002-V-1

0 75'

SCALE:

MAP REF: THOMAS BROS. ALAMEDA COUNTY P. 31 B-3

LEGEND: F = FILL END
OP = OPPOSITE THE FILL END

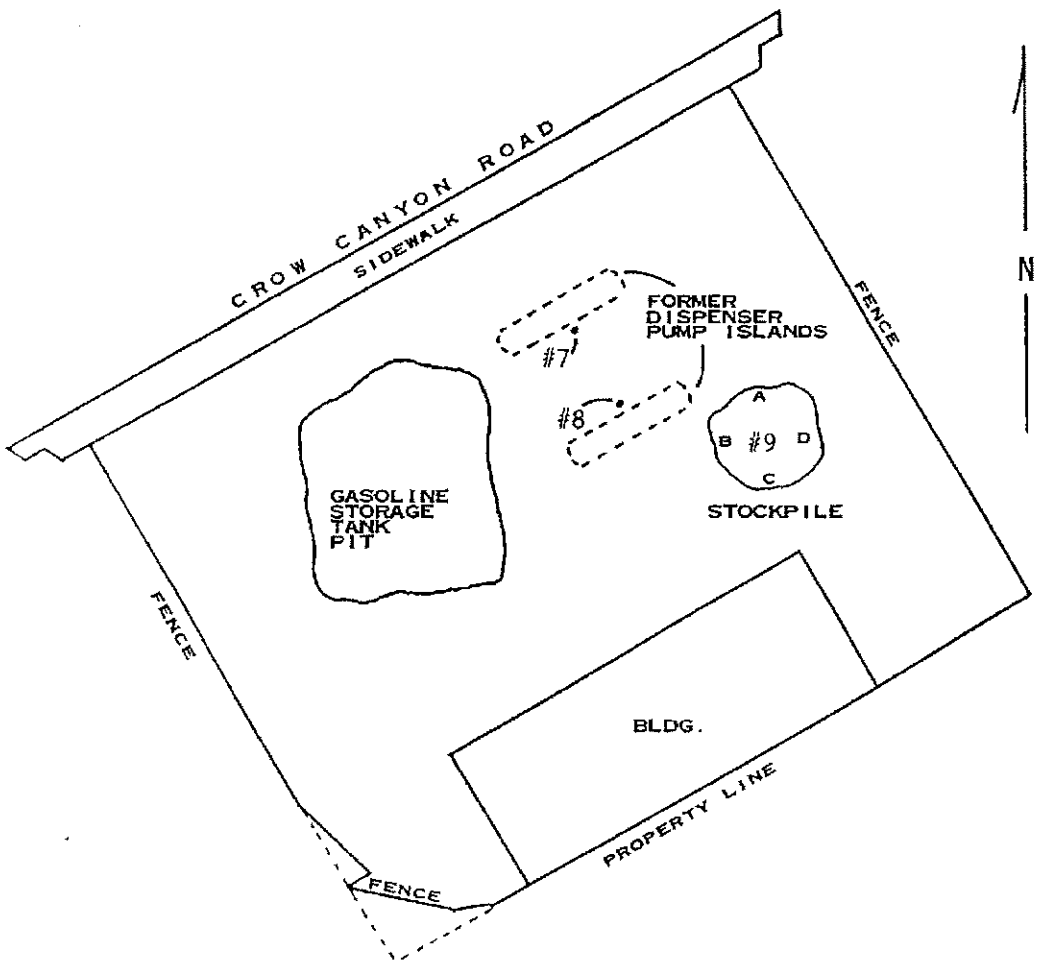


SAMPLING PERFORMED BY FRED VAN DEN BROECK
DIAGRAM PREPARED BY LEAH MORRIS

TANK REMOVAL DIAGRAM

October 2, 1990 / 901002-V-1

DIAGRAM TWO



SCALE: 0 25' 50' 75'

MAP REF: THOMAS BROS., ALAMEDA COUNTY P. 31 B-3

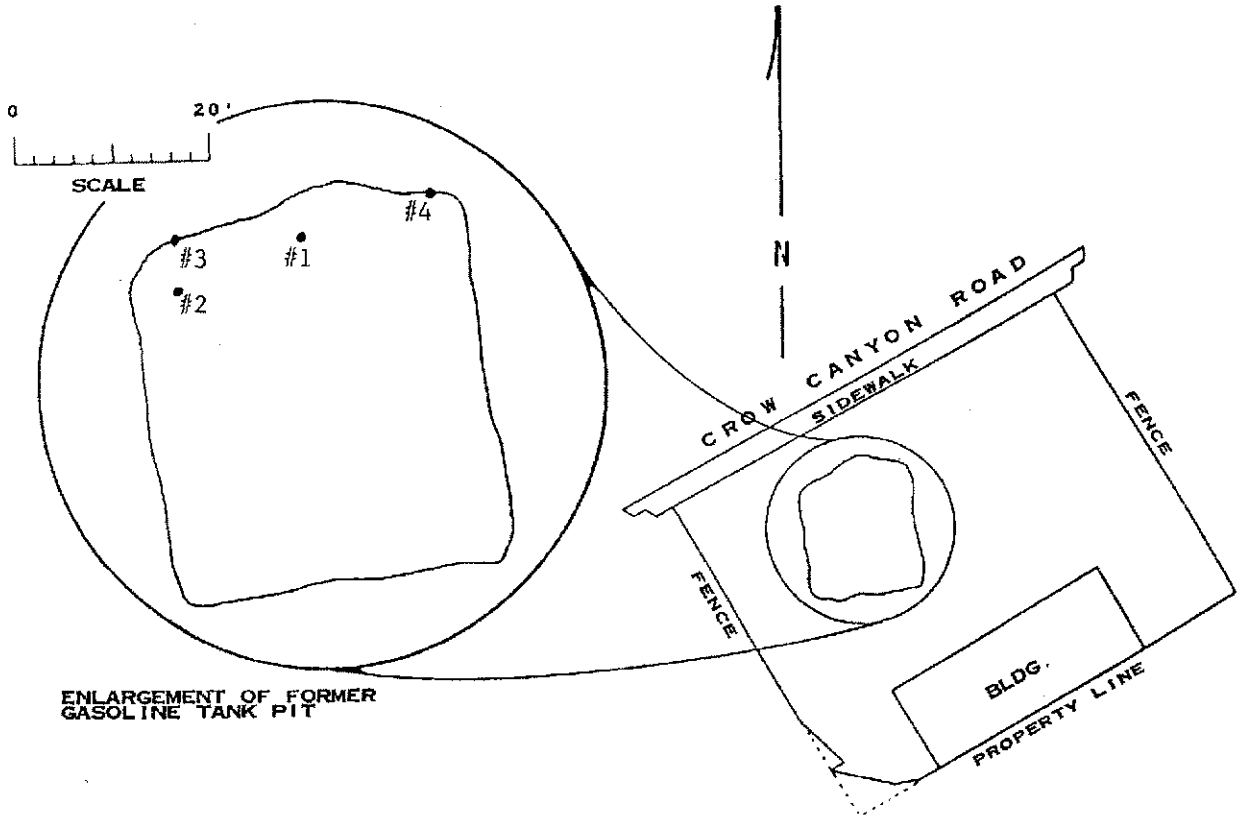
SAMPLING PERFORMED BY FRED VAN DEN BROECK
DIAGRAM PREPARED BY LEAH MORRIS

ADDITIONAL EXCAVATION DIAGRAM

October 5, 1990 / 901005-H-5

SCALE: 0 75'

MAP REF: THOMAS BROS. ALAMEDA COUNTY P. 31 B-3

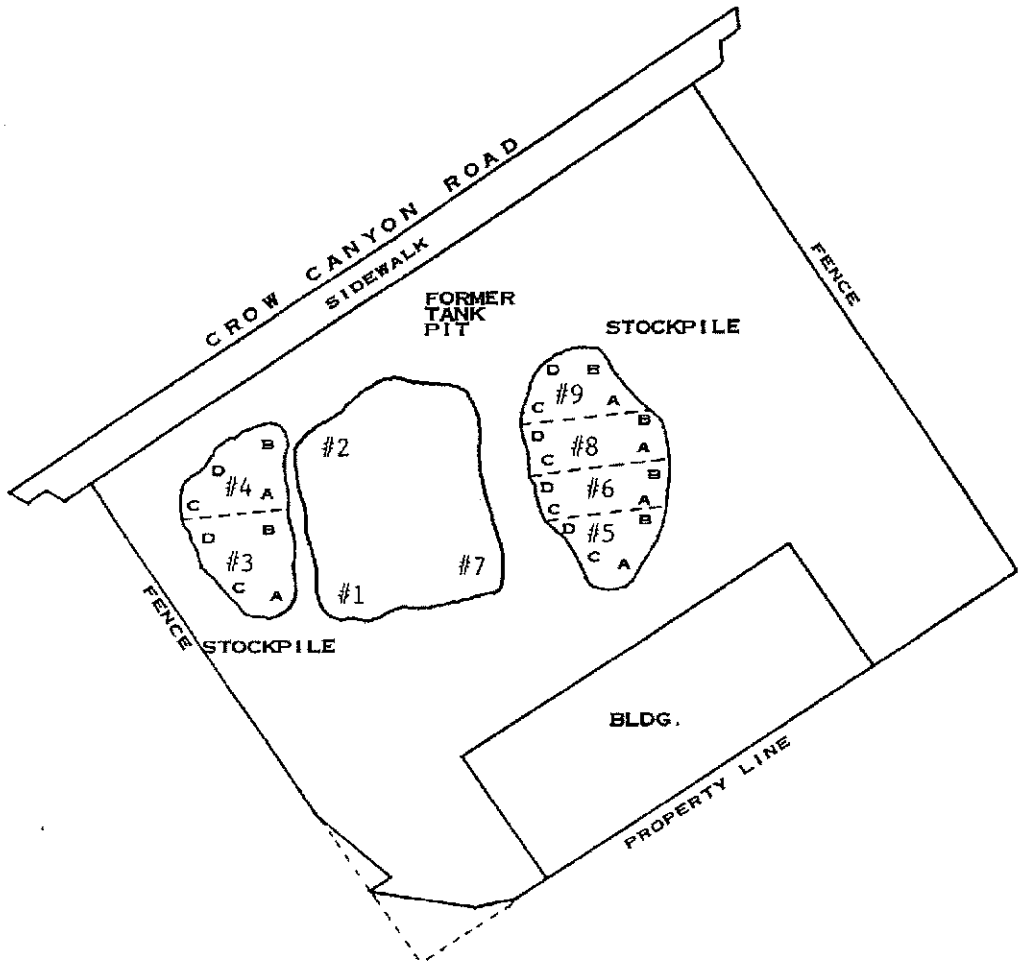


SAMPLING PERFORMED BY BEN RAPP

DIAGRAM PREPARED BY LEAH MORRIS

ADDITIONAL EXCAVATION DIAGRAM

October 11, 1990 / 901011-V-1



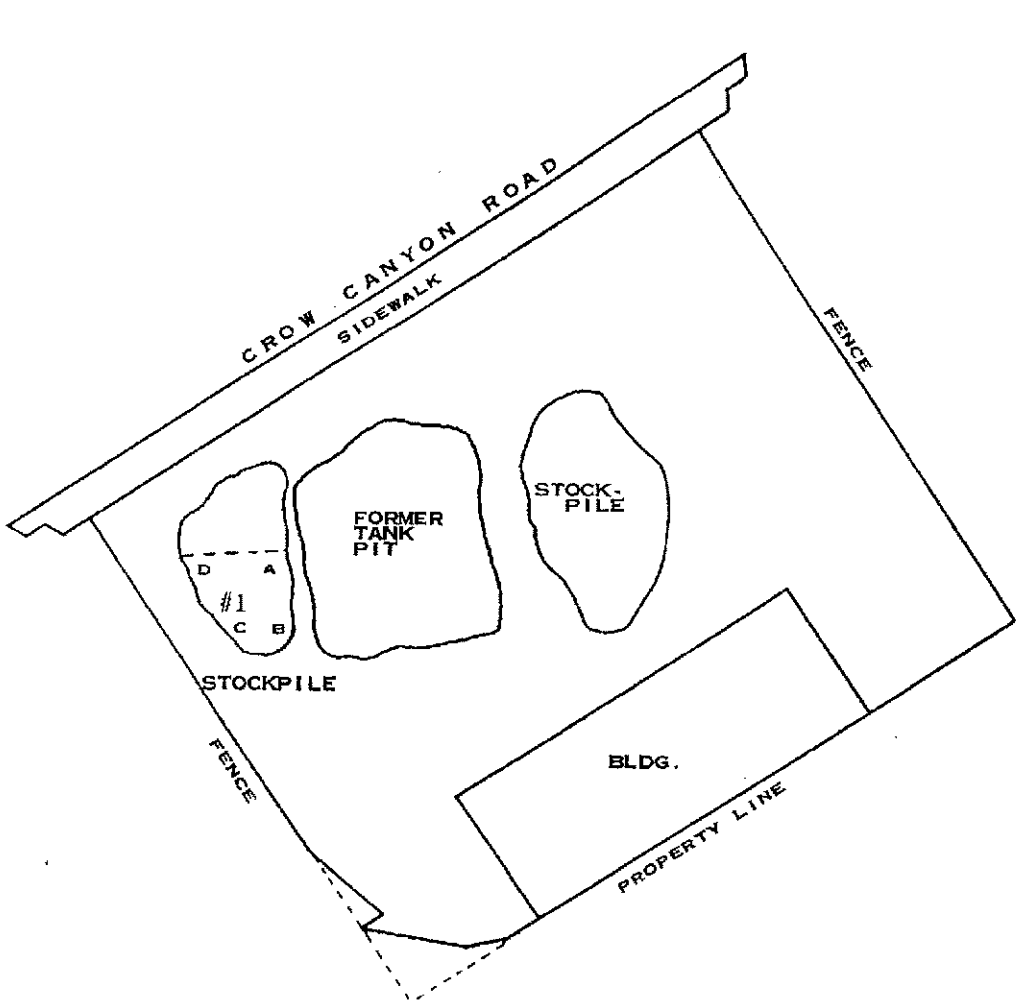
SCALE: 0 25' 50' 75'

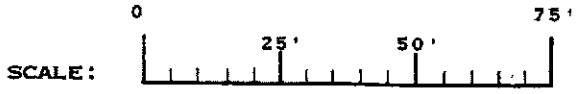
MAP REF: THOMAS BROS. ALAMEDA COUNTY P. 31 B-3

SAMPLING PERFORMED BY FRED VAN DEN BROECK
DIAGRAM PREPARED BY LEAH MORRIS

STOCKPILE DIAGRAM

October 22, 1990 / 901022-V-2





MAP REF: THOMAS BROS.
ALAMEDA COUNTY
P. 31 B.3

SAMPLING PERFORMED BY FRED VAN DEN BROECK
DIAGRAM PREPARED BY LEAH MORRIS

APPENDIX H

DEGRADATION TREND GRAPHS AND CALCULATIONS

TABLE A
SUMMARY OF DEGRADATION CALCULATIONS
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

Well	Analyte	Maximum Concentration (ug/L)	Current Concentration (ug/L)	Half-Life (years)	Date to Reach ESL	Years to reach ESL
C-1	TPHg	437,005	4,700	2.49	Jun 2021	9
	Benzene	11,000	350	2.56	Feb 2028	16
C-3	TPHg	1,000,000	44,000	19.68	Dec 2181	169
	Benzene	43,000	9,100	25.16	May 2341	329
C-6	TPHg	120,000	24,000	21.53	Jan 2179	167
	Benzene	27,000	9,400	8.89	Jul 2129	117
C-9	TPHg	120,000	<50	3.58	Jul 2025	13
	Benzene	14,000	<0.5	2.79	Aug 2030	18
C-12	TPHg	8,700	1,200	42.01	Sep 2176	164
	Benzene	1,200	10	6.35	Dec 2043	31

Notes:

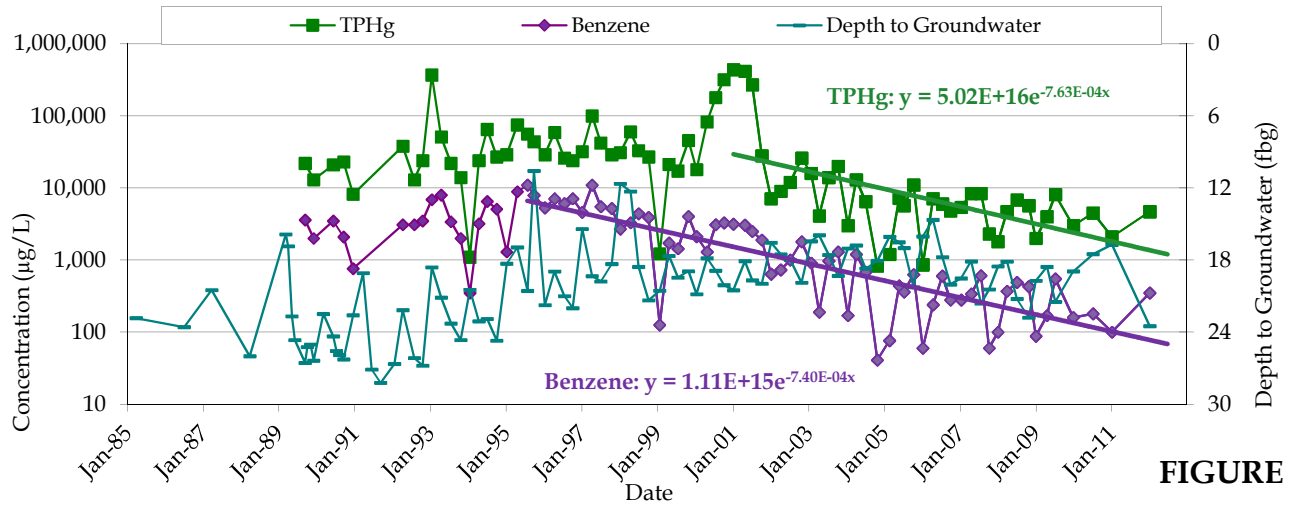
TPHg = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter
ESL = Environmental Screening Level
<x = Indicates chemical not detected at or above reporting limit x
NA = Not applicable

C-1
PREDICTED TIME TO REACH ENVIRONMENTAL SCREENING LEVELS (ESLs)
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

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

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

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given			
ESL :	y	100	1
Constant:	b	5.02E+16	1.11E+15
Constant:	a	-7.63E-04	-7.40E-04
Starting date for current trend:		1/9/2001	7/31/1995
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.49	2.56
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Jun 2021	Feb 2028



FIGURE

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-1: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO

C-3
PREDICTED TIME TO REACH ENVIRONMENTAL SCREENING LEVELS (ESL)
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

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

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

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given			
ESL :	y	100	1
Constant:	b	2.05E+06	1.91E+05
Constant:	a	-9.64E-05	-7.54E-05
Starting date for current trend:		1/18/1993	4/24/1995
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	19.68	25.16
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Dec 2181	May 2341

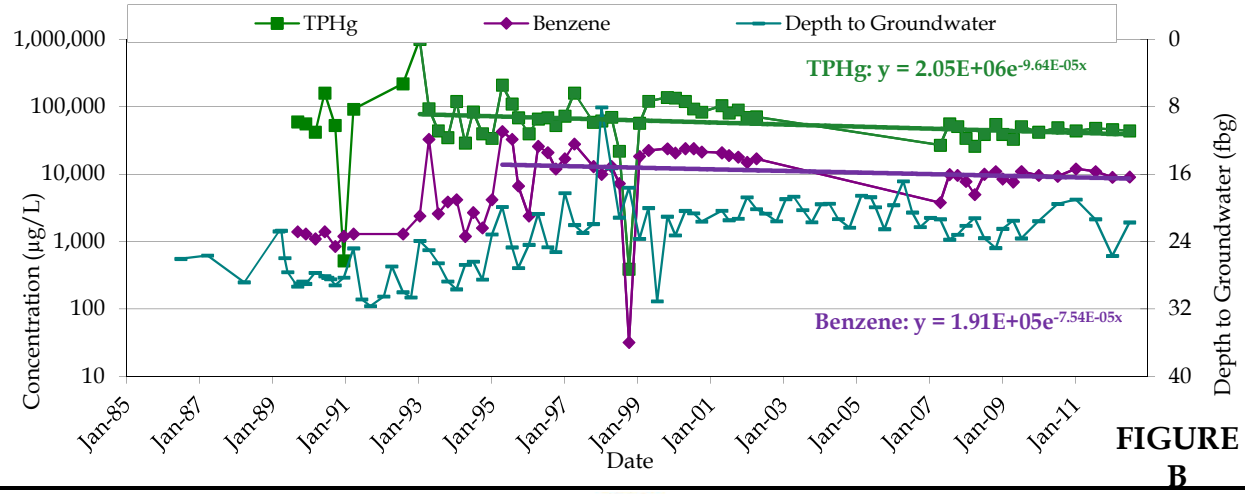


FIGURE B

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-3: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

C-6
PREDICTED TIME TO REACH ENVIRONMENTAL SCREENING LEVELS (ESL)
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

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

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

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given				
ESL :		y	100	1
Constant:		b	7.97E+05	5.96E+07
Constant:		a	-8.81E-05	-2.14E-04
Starting date for current trend:			8/3/1992	1/17/2007
Calculate				
Attenuation Half Life (years):	(-ln(2)/a)/365.25		21.53	8.89
Estimated Date to Reach ESL:	(x = ln(y/b) / a)		Jan 2179	Jul 2129

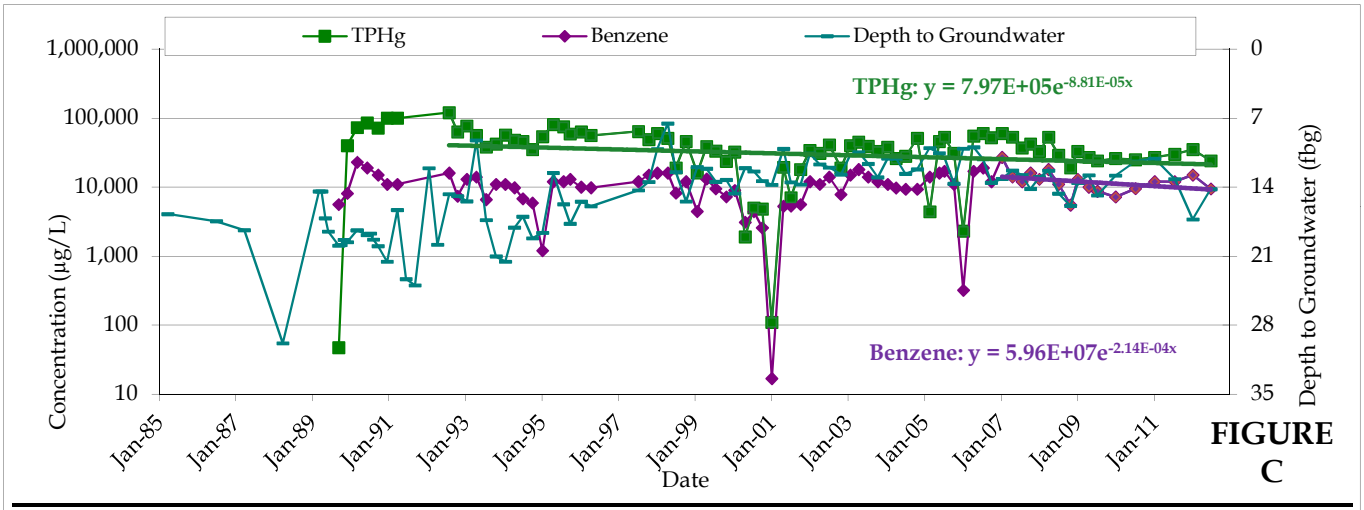


FIGURE C

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-6: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO

C-9
PREDICTED TIME TO REACH ENVIRONMENTAL SCREENING LEVELS (ESL)
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

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

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

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given				
ESL :		y	100	1
Constant:		b	3.53E+12	1.30E+14
Constant:		a	-5.29E-04	-6.81E-04
Starting date for current trend:			9/24/1990	9/13/1989
Calculate				
Attenuation Half Life (years):	(-ln(2)/a)/365.25		3.58	2.79
Estimated Date to Reach ESL:	(x = ln(y/b) / a)		Jul 2025	Aug 2030

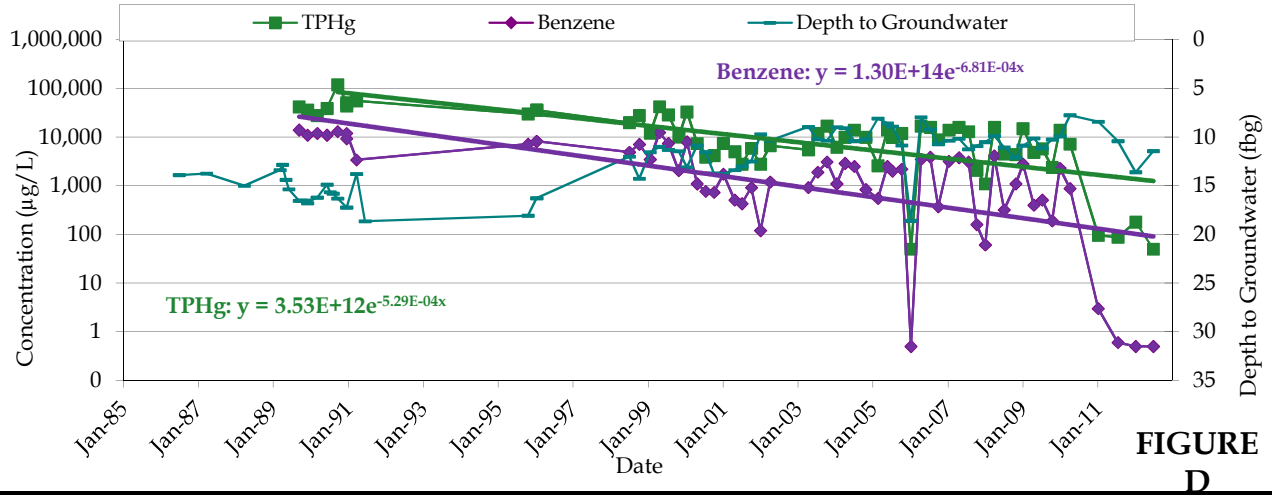


FIGURE D

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-9: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

C-12
PREDICTED TIME TO REACH ENVIRONMENTAL SCREENING LEVELS (ESL)
FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

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

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

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given				
ESL :		y	100	1
Constant:		b	9.62E+03	6.71E+06
Constant:		a	-4.52E-05	-2.99E-04
Starting date for current trend:			10/10/2001	1/18/1993
Calculate				
Attenuation Half Life (years):	(-ln(2)/a)/365.25		42.01	6.35
Estimated Date to Reach ESL:	(x = ln(y/b) / a)		Sep 2176	Dec 2043

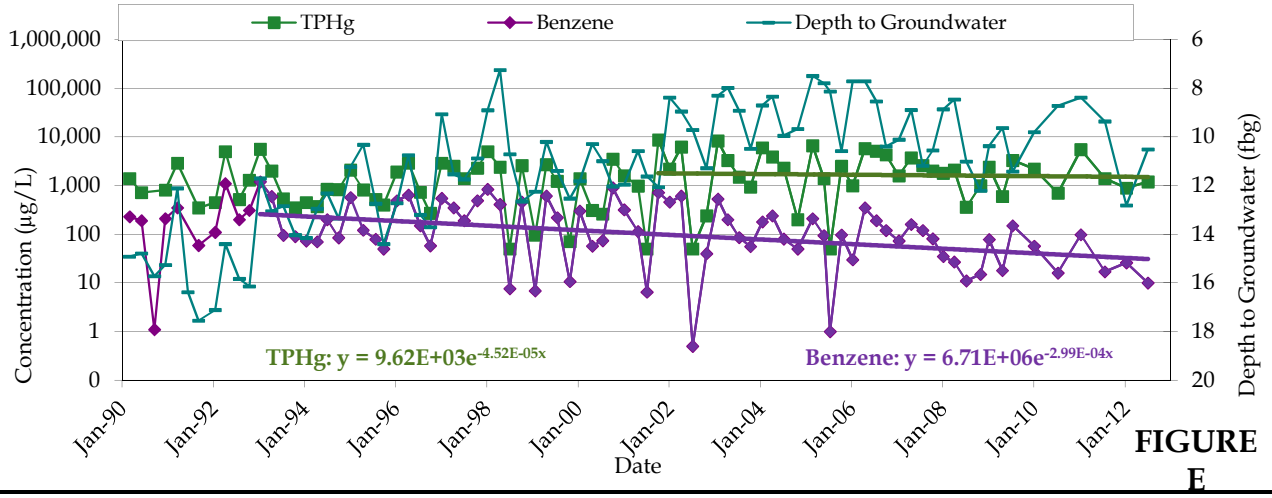


FIGURE E

FORMER CHEVRON SERVICE STATION 95607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

C-12: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

APPENDIX I

STANDARD FIELD PROCEDURES FOR SOIL BORING AND MONITORING WELL INSTALLATION

STANDARD FIELD PROCEDURES FOR SOIL BORING AND MONITORING WELL INSTALLATION

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.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying
Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I, II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development
Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling
Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and 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.

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.