

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

June 9, 2014

Mr. Brian Waite
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to:
BWaite@chevron.com)

Mr. Jack Edwards
2920 Castro Valley Boulevard
Castro Valley, CA 94546

Surinder Pal Goswamy
2920 Castro Valley Boulevard
Castro Valley, CA 94546

K&K Petroleum LLC
6071 Laurel Creek Road
Pleasanton, CA 94588

Subject: Case Closure for Fuel Leak Case No. RO0000475 and Geotracker Global ID T0600100324, Chevron #9-6991, 2920 Castro Valley Boulevard, CA 94546

Dear Messrs. Waite, Edwards, Goswamy, and K&K Petroleum:

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

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

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

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

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

Sincerely,

Ariu Levi
Director

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Director



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

June 9, 2014

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Chevron Environmental Management Company
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Dear Messrs. Waite, Edwards, Goswamy, and K&K Petroleum:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.waterboards.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Under the current land use as an active fueling station, the site is not required to meet media-specific criteria for vapor intrusion to indoor air. Additionally, under the current land use as an active fueling station, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct contact exposure under the current land use. Therefore, case closure is granted for the current commercial land use as an active fueling station.

If a change in land use to any residential, commercial other than as a commercial fueling station, or conservative land use, or if any redevelopment occurs, Alameda County Environmental health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air for future buildings, ACEH will re-evaluate the case upon receipt of approved development/construction plans.

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

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

Sincerely,

A handwritten signature in blue ink that reads "Dilan Roe".

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

Messrs. Waite, Edwards, Goswamy, and K&K Petroleum

RO0000475

June 9, 2014, Page 2

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

Cc w/enc.: Alexis Fischer, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583; (sent via email to AFischer@chevron.com)

Alameda County Public Works, Building Inspection Division, 399 Elmhurst Street, Room 141, Hayward, CA 94544

Nathan Allen, Conestoga-Rovers & Associates, 10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670 (sent via electronic mail to nallen@cra-world.com)

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

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

Electronic File, GeoTracker

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: August 8, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Responsible Staff Person: Mark Detterman	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Chevron #9-6991		
Site Facility Address: 2920 Castro Valley Boulevard, Castro Valley, CA 94546		
RB Case No.: 01-0352	Local Case No.: STID 651	LOP Case No.: RO0000475
URF Filing Date: 9/14/1990	Geotracker ID: T0600100324	APN: 84A-128-2-11

Responsible Parties	Addresses	Phone Numbers
Brian Waite Chevron Environmental Management Company	6101 Bollinger Canyon Rd. San Ramon, CA 94583	(925) 790-6486
K & K Petroleum, LLC	6071 Loral Creek Rd. Pleasanton, CA 94588-4654	---
Surinder Pal Goswamy	2920 Castro Calley Blvd. Castro Valley, CA 94546	---
Jack Edwards	2920 Castro Calley Blvd. Castro Valley, CA 94546	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
---	10,000	Gasoline	Removed	9/1/1990
---	1,000	Waste Oil	Removed	9/1/1990
Piping			Removed	9/1/1990

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Evidence of overfill for waste oil UST. Condition of fuel UST release was not reported.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 7	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 8.27 fbgs	Lowest Depth: 12.88 fbgs	Flow Direction: Southwest, has varied to the west
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: Five water supply wells were identified within a 2,000-foot radius of the site. Three of the wells are at Eden Hospital located approximately 2,000 feet northwest of the site and cross-gradient to groundwater flow. The wells do not appear to be receptors due to the crossgradient locations and distance from the site. The fourth well is approximately 1,400 north and crossgradient. The well does not appear to be receptor due to the crossgradient locations and distance from the site. The fifth well is located approximately 1,400 feet south-southwest and is down- to crossgradient. The well does not appear to be receptor due to the distance from the site and a partially crossgradient location.	
Are drinking water wells affected? No	Aquifer Name: Castro Valley Basin
Is surface water affected? No	Nearest SW Name: Castro Valley Creek located approximately 2,500 ft. east of site
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One 1,000-gallon	Disposal - Erickson, Inc; Richmond, CA	9/1/1990
Tank	One 6,000-gallon	Disposal - Erickson, Inc; Richmond, CA	9/1/1990
Piping	~ 55 feet	Disposal destination not reported.	9/1/1990
Free Product	None Reported	---	---
Soil	700 cu. yds. (Only 40 cu. yds. documented)	Disposal - Class III landfills in San Jose and Livermore, CA & a modified Class III landfill in Bakersfield, CA	9/18/1990 to 9/21/1990
Groundwater	None Reported	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	430	430	54,000	1,100
TPH (Diesel)	1,000	150	13,000	700
TPH (Motor Oil)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Oil and Grease	3,200	3,200	<5,000	<5,000
Benzene	0.24	0.24	6,200	< 0.5
Toluene	0.26	0.26	10,000	< 0.5
Ethylbenzene	0.57	0.52	1,100	< 0.5
Xylenes	2	2	14,000	< 0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	42 ¹	42 ¹	<200 ⁴	<200 ⁴
MTBE	0.001 ²	0.001 ²	62,000 ⁵	49 ⁶
Other (8240/8270)	< 0.005 ³	< 0.005 ³	<0.5 ⁷	<0.5 ⁷

¹ Cd < 1 ppm; Cr = 34 ppm; Pb = 15 ppm; Ni = 29 ppm; Zn = 42 ppm

² MTBE = 0.001 ppm; DIPE, ETBE, TAME, EDB, and EDC < 0.005 ppm; TBA < 0.02 ppm

³ 1,2-DCE, TCE, and PCE < 0.005 ppm; stockpile samples

⁴ Cd, Cr, and Zn < 50 ppb; Pb < 200 ppb; Ni < 100 ppb

⁵ MTBE = 62,000 ppb, DIPE, ETBE, and TAME < 0.5 ppb; TBA < 5.0 ppb; EDB and EDC not analyzed

⁶ MTBE = 49 ppb; DIPE, ETBE, TAME, EDB, EDC, and TBA not analyzed

⁷ 1,2-DCE, TCE, and PCE < 0.5 ppb

Site History and Description of Corrective Actions:

The site is located at the corner of Castro Valley Boulevard and Anita Avenue. Historically, there have been two generations of gasoline service stations on the property. The first generation station was present from approximately 1946 to 1990, when the station was remodeled to its current configuration. The station reportedly dispensed diesel fuel until the time of an underground storage tank (UST) replacement in 1983. Replacement of USTs occurred both in 1983 and 1990, but no reports documenting the 1983 UST removal were submitted. Currently, a Chevron gas station occupies the site, which is equipped with a station building, three 10,000-gallon fiberglass gasoline underground storage tanks (USTs), four dispenser islands, and associated piping. Surrounding land use is predominately residential, intersected by commercial use along Castro Valley Boulevard. Soils in the vicinity of the site generally consist of clays and to a lesser degree, sand, with varying amounts of silt, clay, and gravel.

On September 11, 1990, soil and groundwater sampling was conducted in conjunction with the removal of one 10,000-gallon (also reported as a 6,000-gallon) unleaded gasoline tank, one 1,000-gallon waste oil tank, and the associated product piping. Groundwater was encountered at 11 fbg in the gasoline tank excavation pit. Up to 2,000 parts per million (ppm) Total Oil and Grease (TOG) were detected in soil beneath the waste oil tank and 1,000 ppm Total Petroleum Hydrocarbons as diesel (TPHd) were detected in soil beneath the product lines. Groundwater samples analyzed from the gasoline tank excavation pit detected up to 54,000 parts per billion Total Petroleum Hydrocarbons as gasoline (TPHg), 13,000 ppb TPHd, and 6,200 ppb benzene.

The waste oil tank excavation, northern product line trench, and southern product line trench were over-excavated to 15, 3, and 7 fbg, respectively. Results from the over-excavation sampling detected up to 3,200 ppm TOG in soil at 12 fbg on the western wall of the waste oil tank excavation. Soil samples analyzed from the product line over-

excavation detected up to 380 ppm TOG. The two groundwater samples analyzed from the waste oil tank over-excavation detected up to 1,400 ppb TPHg.

Approximately 700 cubic yards of source mass soil was removed and disposed offsite, and the excavations were backfilled with clean imported material. Appropriate disposal documentation was submitted for only 40 cubic yards of soil. The disposal location of the remaining 660 cubic yards is undocumented.

On September 24 and 30, 1991, three borings were advanced at the site to depths of 20 or 21 fbg and subsequently completed as monitoring wells (MW-1 through MW-3). A total of five soil samples were collected from the borings at depths ranging between five and ten fbg. The completed monitoring wells were first sampled on October 8, 1991. Petroleum Hydrocarbon Concentrations were not detected in soil from wells MW-1 and MW-3. A soil sample collected from monitoring well MW-2 at five fbg detected 0.005 ppm toluene and 0.006 ppm ethylbenzene. Up to 230 ppb TPHg and 45 ppb benzene was detected in groundwater collected in monitoring wells.

During a monitoring event on December 4, 1991, groundwater samples were collected for the analysis of TPHd, Halogenated Volatile Organic Compounds (HVOCs), and various metals. The analysis detected 170 ppb TPHd in monitoring well MW-1 and no HVOCs or metals above detection limits.

On September 15 and October 10, 1992, four soil borings were advanced both onsite and offsite and completed as monitoring wells MW-4, MW-5A, and MW-6. MW-5A was decommissioned on September 25, 1992 due to flowing sands encountered during well installation. Soil samples were collected at five foot intervals and groundwater was sampled from monitoring wells MW-1 through MW-6 on October 27, 1992. The soil samples contained no TPHg or benzene above their respective detection limits. Toluene and TPHd were detected in soil at concentrations up to 0.26 ppm and 5 ppm, respectively. The groundwater samples collected from monitoring well MW-6 contained the highest concentrations of TPHg and benzene of 600 ppb and 22 ppb, respectively. The highest concentration of TPHd in groundwater of 120 ppb was collected from monitoring well MW-3.

On August 30, 1995, one onsite boring was advanced to 21.5 fbg and completed as monitoring well MW-7. Soil samples were collected from the boring at 5.5, 12, and 21 fbg. Petroleum hydrocarbons were detected in the soil samples collected from the boring at 12 fbg. The soil sample contained 3.7 ppm TPHg and 0.009 ppm toluene.

On March 6, 2002, six hand augured exploratory borings (SB1 through SB6) were advanced both onsite and offsite. Soil samples were collected from the borings at five foot intervals. Concentrations up to 250 ppm TPHg, 53 ppm TPHd, and 0.99 ppm total xylenes were detected. Grab groundwater samples were collected and analyzed from most bores, except SB4 and SB5. Grab groundwater was not collected from boring SB4 due to auger refusal at approximately 3.5 fbg as a result of encountering a cobble or cement pipe. Grab groundwater was collected from boring SB5 but was not analyzed due to the presence of separate phase hydrocarbons (reported as sheen). Grab groundwater samples detected up to 960 ppb TPHd, and 0.59 ppb benzene.

During a regulatory compliance inspection on August 28, 2003, multiple overfillings of the regular gasoline tank (Tank 3) were noted in 2003. Additionally, the supreme gasoline tank (Tank 1) failed its routine tank test on February 16, 2003 and overspill containers were found to be improperly installed. Subsequent groundwater monitoring events do not indicate an increase in groundwater contamination concentrations.

On July 29, 2003, one soil boring (SB-7) was advanced in the southwest corner of the site to investigate the previous discovery of separate phase hydrocarbons in the groundwater sample collected from boring SB5. The bore was installed within 5 feet of SB-5. Soil samples collected from boring SB7 detected up to 430 ppm TPHg and 110 ppm TPHd. The grab groundwater sample collected from boring SB7 detected only 0.9 ppb MTBE. Separate phase hydrocarbons were not observed the boring.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements:</p> <p>This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary.</p>		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <ul style="list-style-type: none"> • Naphthalene or PAH analytical data has not been collected at the site. • The UST removal report states that approximately 700 cu. yds. of soil was disposed of offsite. Documentation for disposal of only 40 yards was submitted. • EDB and EDC have not been analyzed in groundwater. • Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities. <p>The site meets the general criteria for case closure under the LTCP.</p> <p>The site appears to meet scenario 2 of the groundwater media-specific criteria for closure under the LTCP based on the following:</p> <ol style="list-style-type: none"> 1. The plume is stable or decreasing in size. 2. The plume is less than 250 feet in length. 3. There is no free product. 4. The dissolved concentration of benzene is less than 3,000 ppb. 5. The dissolved concentration of MTBE is less than 1,000 ppb. 6. No water supply wells or surface water bodies are within 1,000 feet of the plume boundary. <p>Since the site is an active fueling station, on-site buildings are not required to meet the media-specific criteria for petroleum vapor intrusion to indoor air under the LTCP. Based on the horizontal distance between off-site</p>

buildings and the residual soil and groundwater contamination, there appears to be a low potential for vapor intrusion to indoor air for the off-site buildings.

The site does not meet the numerical media-specific criteria in the LTCP for media-specific criteria for direct contact and outdoor air exposure for the following reasons:

1. Naphthalene and other PAHs were not analyzed at the site.

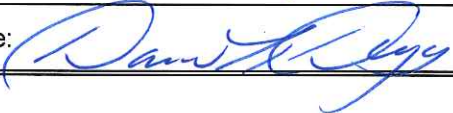
However, ACEH believes case closure is appropriate based on the following:

1. The maximum concentrations of benzene and ethylbenzene detected in soil samples collected to date within the upper 10 feet are less than the media-specific criteria in Table 1 of the LTCP for direct contact and outdoor air exposure.
2. The lateral extent of the waste oil overexcavation was defined to at or below 35 ppm TOG in soil at a depth of 10 feet bgs. The vertical extent was overexcavated to a depth of 15 feet bgs. Overexcavation bottom confirmation samples were not collected to characterize the vertical extent of removal; however, naphthalene and PAHs are expected to have been largely removed by the overexcavation to a depth of between 10 and 15 feet bgs.
3. Diesel contamination associated with former product lines was overexcavated to a depth of 7 feet bgs and was defined vertically and laterally to a concentration of 16 to 41 ppm TOG in soil. It is unlikely that naphthalene or PAH contamination will exceed the media-specific values in Table 1 for naphthalene or PAHs.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time.

VI. LOCAL AGENCY REPRESENTATIVE DATA

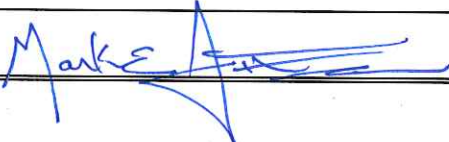
Prepared by: Mark Detterman, P.G., C.E.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 8/8/2013
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 8/8/2013

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: May 22, 2013	

VIII. MONITORING WELL DECOMMISSIONING

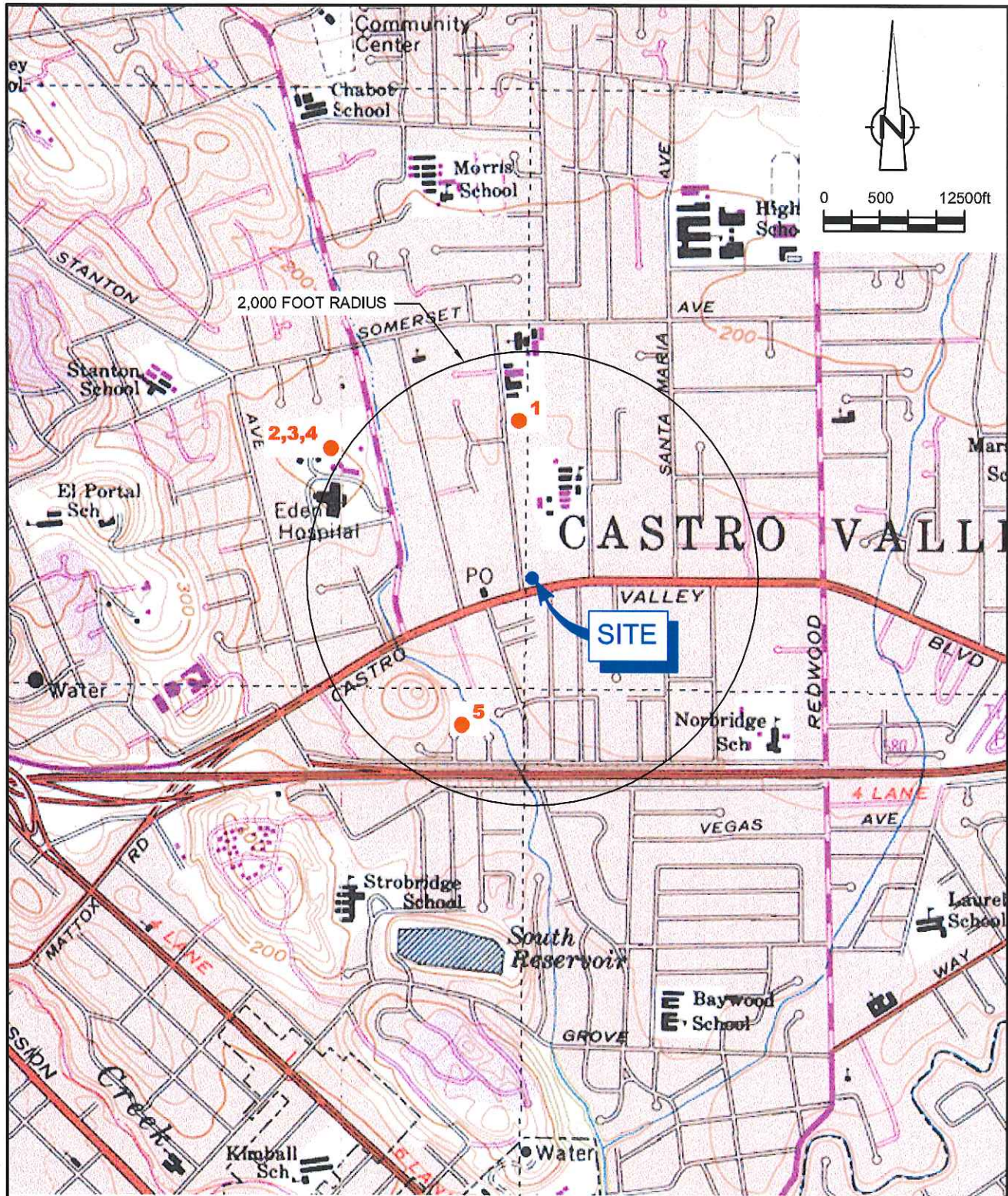
Date Requested by ACEH: 7/26/2013	Date of Well Decommissioning Report: 5/30/2014	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 7	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: 	Date: 6/9/2014	

Attachments:

1. Site Vicinity Map (2 pp)
2. Site Plans (7 pp)
3. Soil Analytical Data (6 pp)
4. Groundwater Analytical Data (21 pp)
5. Boring Logs (15 pp)
6. Cross Sections (4 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

ATTACHMENT 1



SOURCE: TOPOI MAPS.

LEGEND

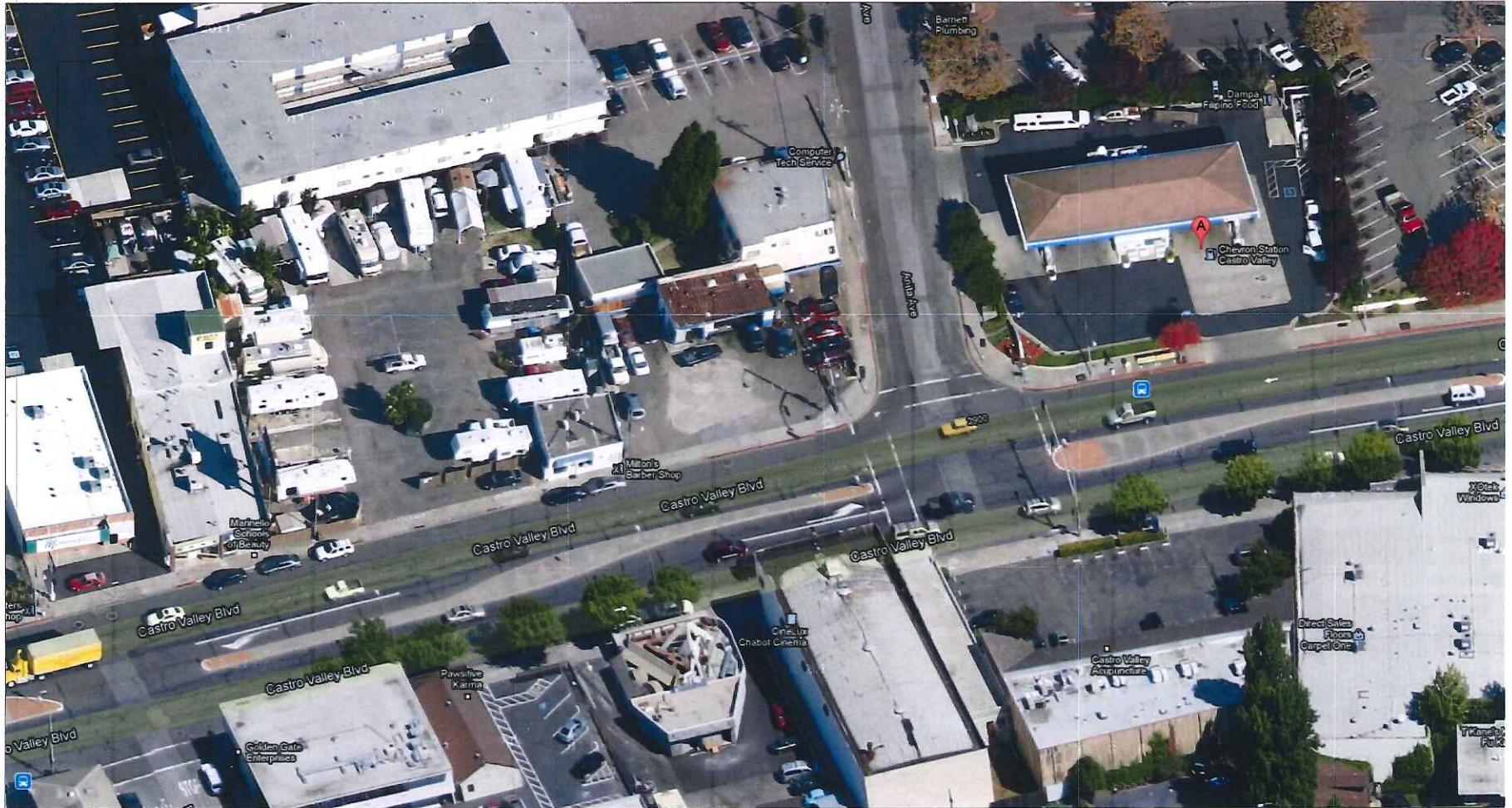
- APPROXIMATE WELL LOCATION

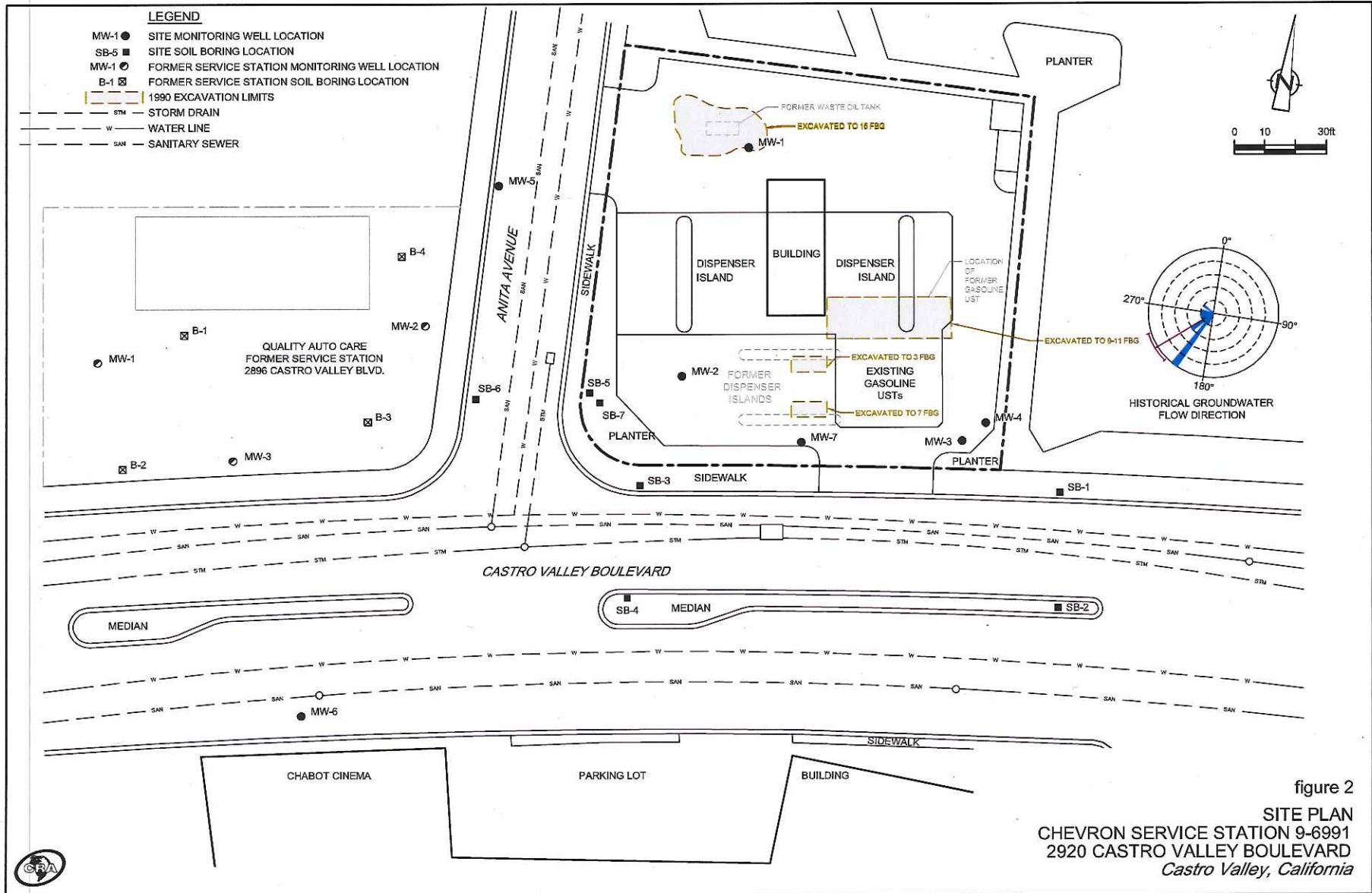


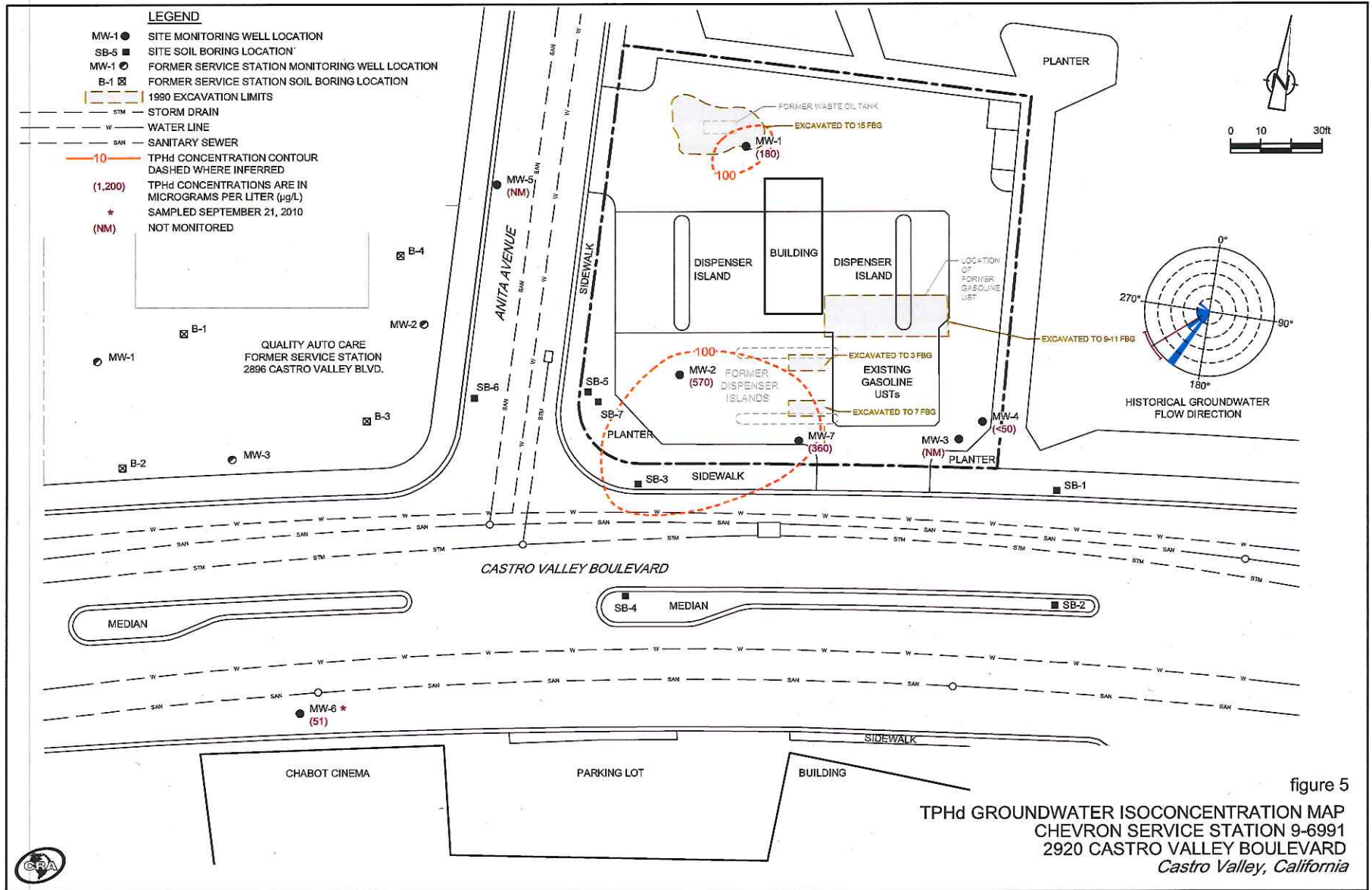
WELL SURVEY MAP
CHEVRON SERVICE STATION 9-6991
2920 CASTRO VALLEY BOULEVARD
Castro Valley, California

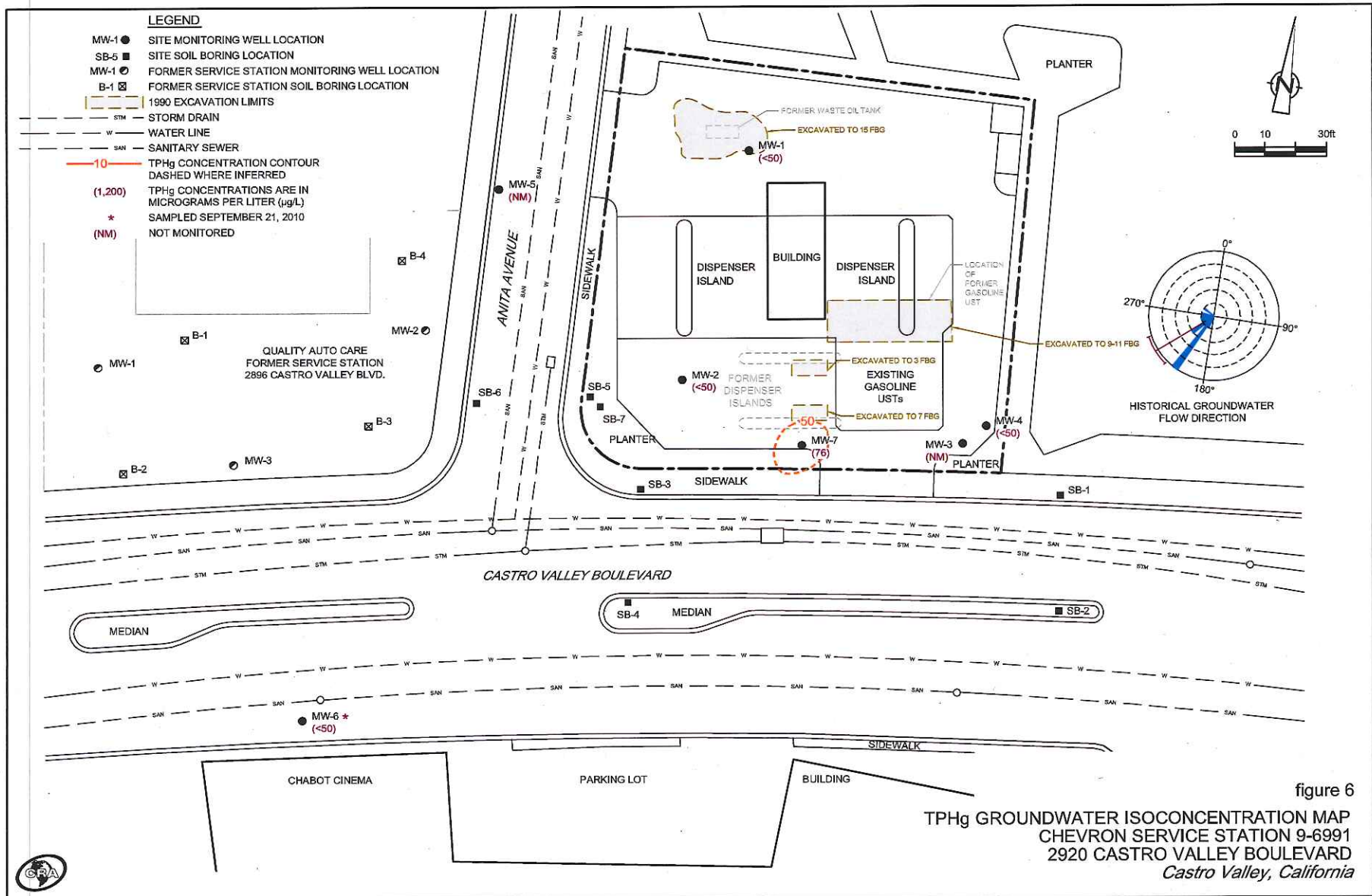


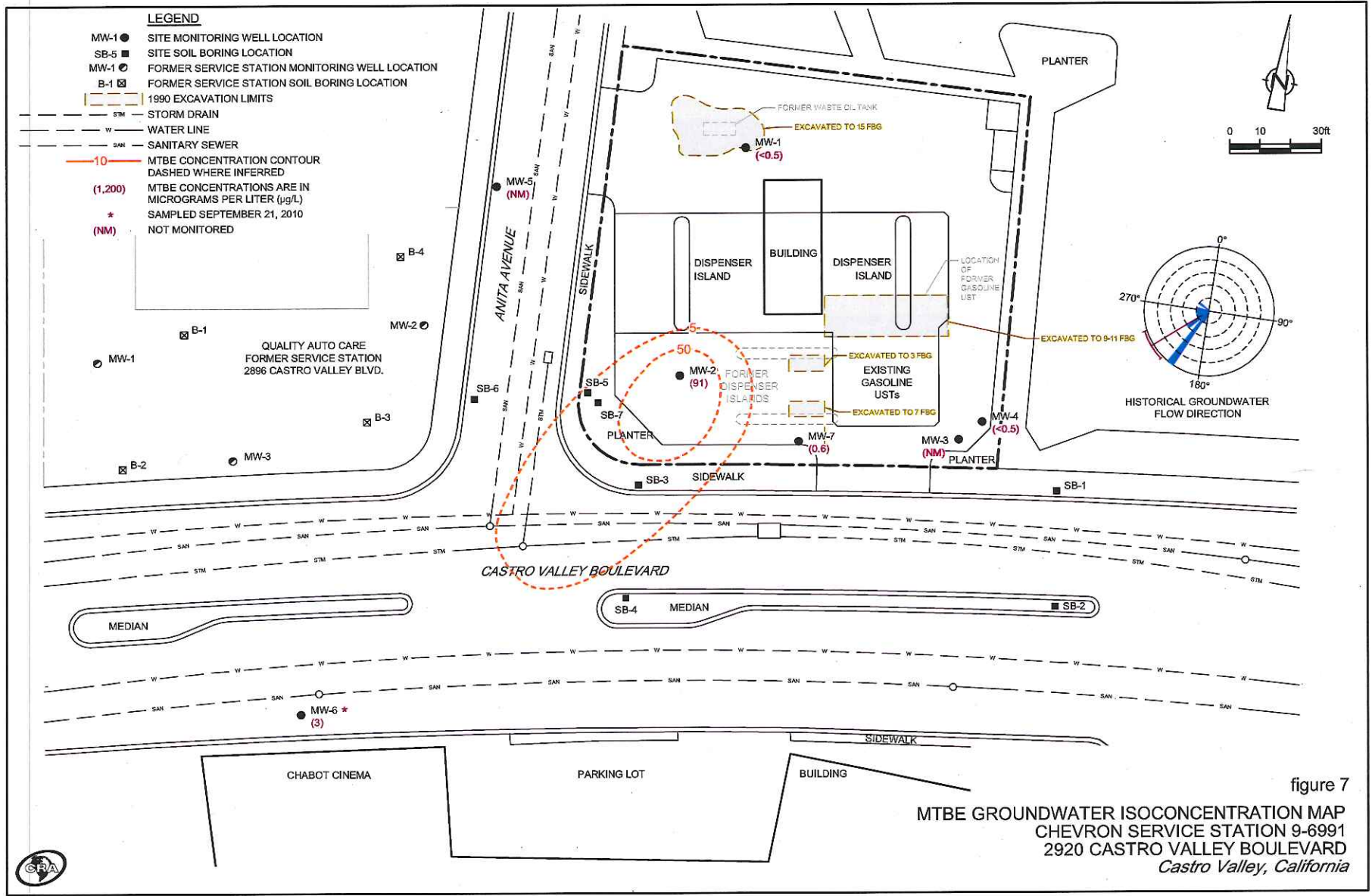
To see all the details that are visible on the screen, use the "Print" link next to the map.











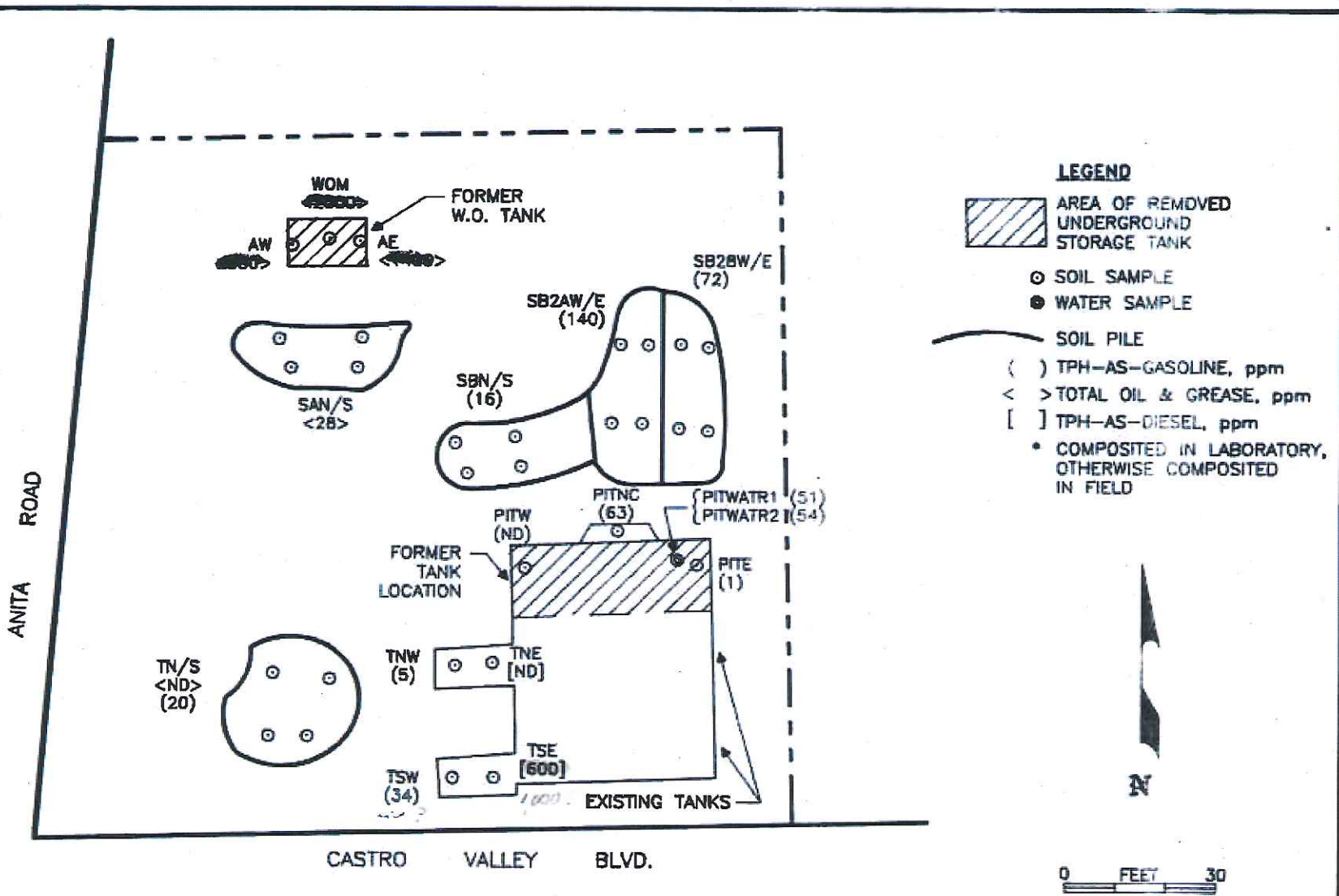
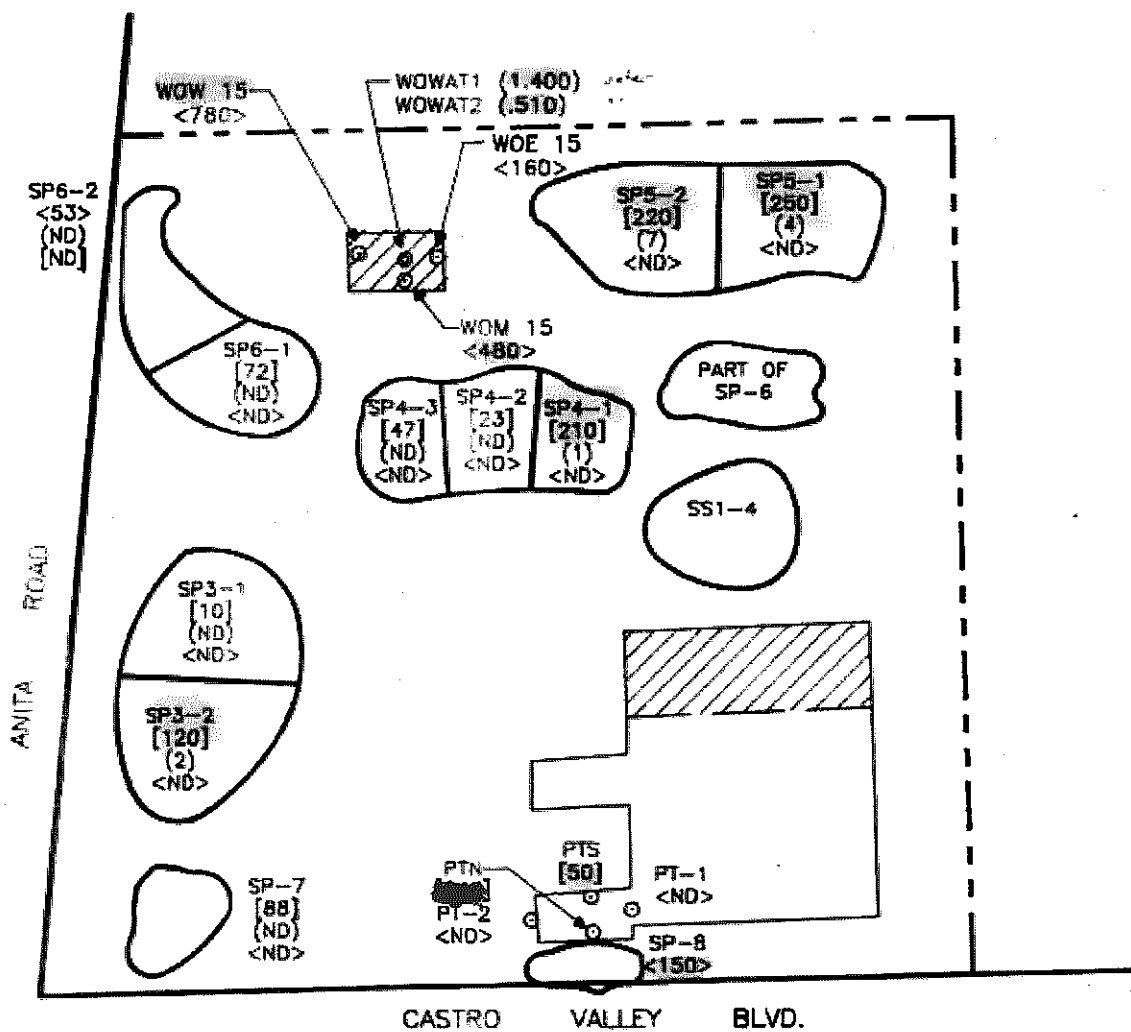


FIGURE 3
INITIAL SAMPLE LOCATIONS FOR
TANK EXCAVATIONS AND SOIL PILES
(9/11/90)

CHEVRON, USA
 CASTRO VALLEY, CALIFORNIA



LEGEND

AREA OF REMOVED UNDERGROUND STORAGE TANK
 SOIL SAMPLE
 WATER SAMPLE
 SOIL PILE (SAMPLED ON 9/17/90)
 () TPH-AS-GASOLINE, ppm
 < > TOTAL OIL & GREASE, ppm
 [] TPH-AS-DIESEL, ppm

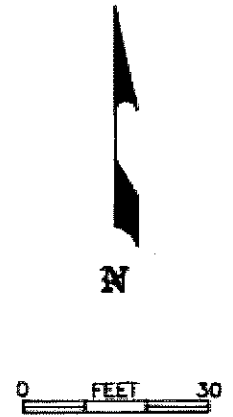


FIGURE 4
EXCAVATION AND SOIL PILE
SAMPLE LOCATIONS
(9/17-22/90)

CHEVRON, USA
CASTRO VALLEY, CALIFORNIA

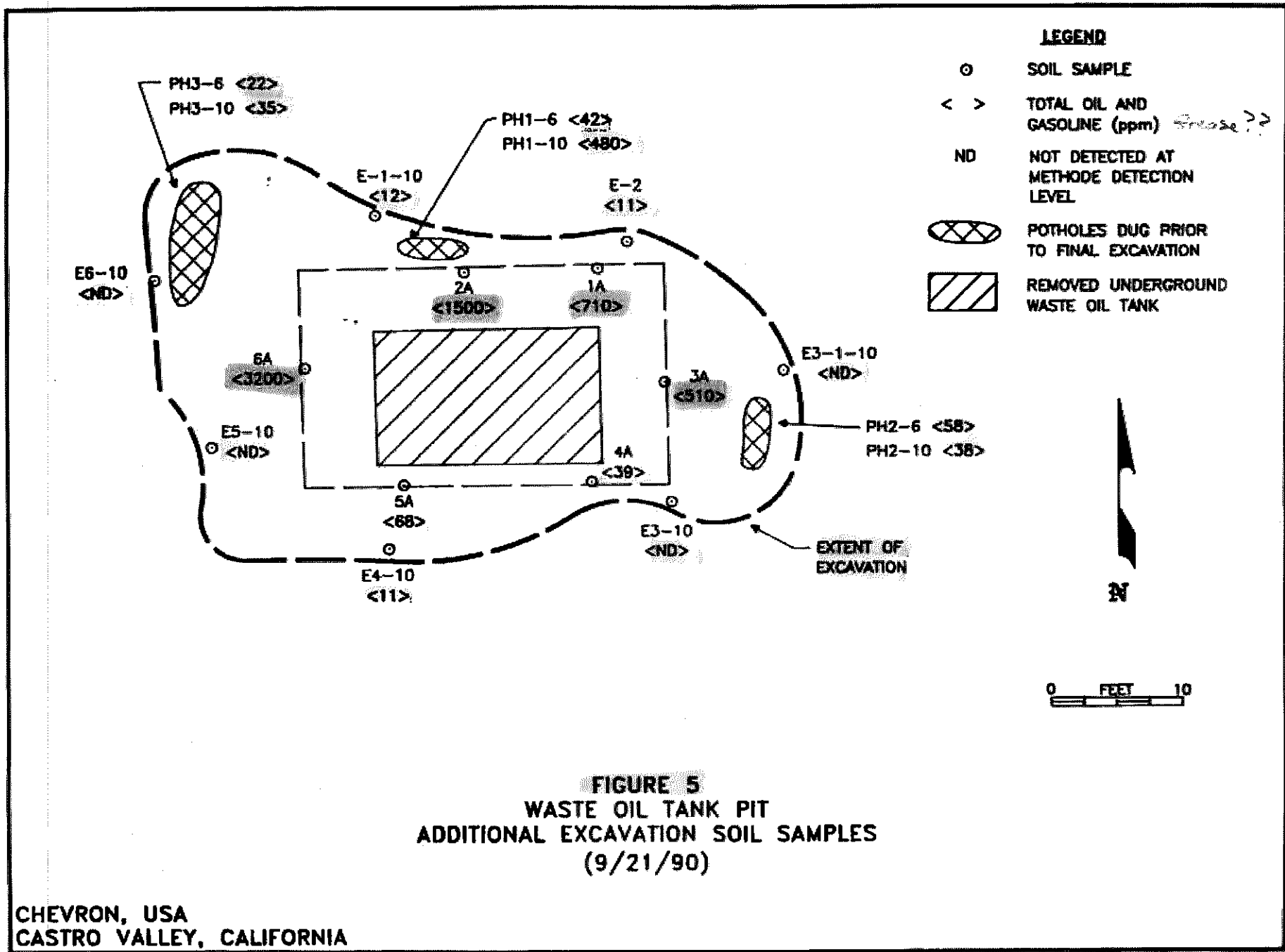


TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
 CHEVRON STATION 9-6991
 2920 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	VOCs	HVOCs	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
← Concentrations reported in milligrams per kilogram (mg/kg) →																		
Used-Oil UST Removal and Over-Excavation																		
WOM	11	9/11/90	2,000	--	15	0.07	<0.005	0.01	0.05	--	ND*	--	--	--	--	--	--	--
AW	8	9/11/90	830	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
AE	8	9/11/90	1,400	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
WOW15	15	9/18/90	780	<10	26	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--
WOE15	15	9/18/90	160	<10	<10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--
WOM15	15	9/18/90	480	<10	13	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--
A-1	12	9/20/90	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2A	12	9/20/90	1,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3A	12	9/20/90	510	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6A	12	9/20/90	3,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4A	12	9/20/90	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5A	12	9/20/90	68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH1-6	6	9/20/90	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH1-10	10	9/20/90	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH2-6	6	9/20/90	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH2-10	10	9/20/90	38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH3-6	6	9/20/90	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PH3-10	10	9/20/90	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-1-10	10	9/20/90	12	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-2-10	10	9/20/90	11	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-3-2	2	9/20/90	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-3-1	1	9/20/90	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-3-1-10	10	9/21/90	14	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-3-2-10	10	9/21/90	12	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-4-10	10	9/20/90	11	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-5-10	10	9/20/90	<10	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
E-6-10	10	9/20/90	<10	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
Gasoline UST Excavation																		
PIIW	11	9/11/90	--	--	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
PIINC	9	9/11/90	--	--	63	0.05	0.01	0.52	2	--	--	--	--	--	--	--	--	--
PIIE	11	9/11/90	--	--	1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
Product Line Removal and Over-Excavation																		
TNW	3	9/11/90	--	--	5	0.24	<0.005	0.09	0.24	--	--	--	--	--	--	--	--	--
TNE	3	9/11/90	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TSW	3	9/11/90	--	--	52	0.16	<0.005	0.57	0.53	--	--	--	--	--	--	--	--	--
TSE	3	9/11/90	--	1,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 3

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
 CHEVRON STATION 9-6991
 2920 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA

Boring/ Sample ID	Sample Depth (ftg)	Sample Date	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	VOCs	HVOCs	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
← Concentrations reported in milligrams per kilogram (mg/kg) →																		
TE	5	9/18/90	--	150	--	0.01	0.01	0.01	0.02	--	--	--	--	--	--	--	--	--
TW	5	9/18/90	--	--	21	0.1	0.01	0.02	0.1	--	--	--	--	--	--	--	--	--
PT-N-7	7	9/20/90	--	140	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
PT-S-7	7	9/20/90	--	58	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
PT-S-1-7	7	9/20/90	16	ND	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
PT-S-2-7	7	9/20/90	41	ND	<1	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
PT1	Unk	9/20/90	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PT2	Unk	9/20/90	290	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PTS WALL	Unk	9/20/90	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PTN WALL	Unk	9/20/90	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exploratory and Monitoring Well Borings																		
MW-1A	9	9/23/91	<50	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-2A	5	9/23/91	--	--	<1	<0.005	0.005	0.006	0.014	--	--	--	--	--	--	--	--	--
MW-2B	10	9/23/91	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-3A	6	9/30/91	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-3C	10	9/30/91	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-4	5	9/25/92	--	<1	<1	<0.005	0.03	<0.005	<0.005	--	--	--	--	--	--	--	--	--
	10	9/25/92	--	<1	<1	<0.005	0.042	<0.005	<0.005	--	--	--	--	--	--	--	--	--
	20	9/25/92	--	<1	<1	<0.005	0.03	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-5	5	9/25/92	--	<1	<1	<0.005	0.052	<0.005	<0.005	--	--	--	--	--	--	--	--	--
	10	9/25/92	--	<1	<1	<0.005	0.067	<0.005	<0.005	--	--	--	--	--	--	--	--	--
MW-6	5	9/25/92	--	5	<1	<0.005	0.26	<0.005	0.011	--	--	--	--	--	--	--	--	--
	10	9/25/92	--	<1	<1	<0.005	0.021	<0.005	0.008	--	--	--	--	--	--	--	--	--
MW-7	5.5	8/30/95	--	--	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
	12	8/30/95	--	--	3.7	<0.005	0.009	0.006	<0.015	--	--	--	--	--	--	--	--	--
	21	8/30/95	--	--	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--
SB-1	5	3/6/02	--	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--
	10	3/6/02	--	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--
SB-2	5.5	3/6/02	--	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-6991
2920 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	VOCs	HVOCs	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
← Concentrations reported in milligrams per kilogram (mg/kg) →																		
SB-3	5.5	3/6/02	--	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--
SB-5	5	3/6/02	--	<10	1.1	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--
	10	3/6/02	--	53	250	<0.05	<0.20	<0.50	0.99	<0.50	--	--	--	--	--	--	--	--
SB-6	5	3/6/02	--	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--
SB-7	8	7/29/03	--	36	25	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	<0.001	<0.001	<0.001	<0.02	<0.001	<0.001
	11.5	7/29/03	--	110	180	<0.001	<0.001	0.018	0.001	<0.001	--	--	<0.001	<0.001	<0.001	<0.02	<0.001	<0.001
	13	7/29/03	--	60	430	<0.005	<0.005	0.044	0.005	<0.005	--	--	<0.005	<0.005	<0.005	<0.098	<0.005	<0.005
	15.5	7/29/03	--	<10	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	<0.001	<0.001	<0.001	<0.02	<0.001	<0.001
	17	7/29/03	--	<10	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	<0.001	<0.001	<0.001	<0.02	<0.001	<0.001
	19.5	7/29/03	--	<10	<1.0	<0.001	<0.001	<0.001	<0.001	0.001	--	--	<0.001	<0.001	<0.001	<0.02	<0.001	<0.001

Abbreviations/Notes:

fbg = feet below grade

TOG = Total oil and grease

TPHd/TPHg = Total petroleum hydrocarbons as diesel and gasoline, respectively

MTBE = Methyl tertiary butyl ether

VOCs = Volatile organic compounds

HVOCs = Halogenated volatile organic compounds

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

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

-- = Not analyzed

ND = Not detected; reporting limits vary or are unknown

a = Not detected except BTEX and 1,2-Dichlorobenzene (0.0078 mg/kg)

Unk = Sample depth unknown

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

TABLE 5
SUMMARY OF SOIL PILE
ANALYSES FOR METALS
DATE SAMPLED (9/20/90)
Metals in soil pile (ppm)

	COMP1	COMP1D	METHOD
ANTIMONY	ND	ND	EPA METHOD 3050/6010
ARSENIC	ND	ND	EPA METHOD 3050/6010
BARIUM	120	140	EPA METHOD 3050/6010
BERYLLIUM	ND	ND	EPA METHOD 3050/6010
CADMIUM	ND	ND	EPA METHOD 3050/6010
CHROMIUM	34	32	EPA METHOD 3050/6010
COBALT	11	12	EPA METHOD 3050/6010
COPPER	22	26	EPA METHOD 3050/6010
LEAD	14	15	EPA METHOD 3050/6010
MERCURY	ND	ND	EPA METHOD 7471
MOLYBDENUM	ND	ND	EPA METHOD 3050/6010
NICKEL	29	28	EPA METHOD 3050/6010
SELENIUM	ND	ND	EPA METHOD 3050/6010
SILVER	ND	ND	EPA METHOD 3050/6010
THALLIUM	ND	ND	EPA METHOD 3050/6010
VANADIUM	50	57	EPA METHOD 3050/6010
ZINC	38	42	EPA METHOD 3050/6010
CYANIDE	ND	ND	EPA METHOD 9010

Project Number: SFB-175-0204.72
 Consultant Project Number: 203-175-3322
 Contract Number: N46CWC0244-9-X
 Facility Number: 9-8991
 Work Order Number: C009582
 Report Issue Date: October 1, 1990

Table 1
 ANALYTICAL RESULTS
 Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date Sampled		09/20/90	09/20/90		
Date Analyzed		09/26/90	09/26/90		
Client Identification		COMP1	COMP1D		
GTEL Sample Number		01	02		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Chloromethane	10	<10	<10		
Bromomethane	10	<10	<10		
Vinyl Chloride	10	<10	<10		
Chloroethane	10	<10	<10		
Methylene Chloride	5	<5	<5		
Acetone	100	<100	<100		
Carbon Disulfide	5	<5	<5		
1,1-Dichloroethene	5	<5	<5		
1,1-Dichloroethane	5	<5	<5		
trans-1,2-Dichloroethene	5	<5	<5		
Chloroform	5	<5	<5		
1,2-Dichloroethane	5	<5	<5		
2-Butanone	100	<100	<100		
1,1,1-Trichloroethane	5	<5	<5		
Carbon Tetrachloride	5	<5	<5		
Vinyl Acetate	50	<50	<50		
Bromodichloromethane	5	<5	<5		
1,2-Dichloropropane	5	<5	<5		
cis-1,3-Dichloropropene	5	<5	<5		
Trichloroethene	5	<5	<5		
Dibromochloromethane	5	<5	<5		
1,1,2-Trichloroethane	5	<5	<5		
Benzene	5	<5	<5		
trans-1,3-Dichloropropene	5	<5	<5		
2-Chloroethylvinylether	10	<10	<10		

Project Number: SFB-175-0204.72
 Consultant Project Number: 203-175-3322
 Contract Number: N46CWC0244-9-X
 Facility Number: 9-6991
 Work Order Number: C009582
 Report Issue Date: October 1, 1990

Table 1 (continued)
 ANALYTICAL RESULTS
 Purgeable Hydrocarbons In Soil
 EPA Method 8240

Date Sampled		09/20/90	09/20/90		
Date Analyzed		09/26/90	09/26/90		
Client Identification		COMP1	COMP1D		
GTEL Sample Number		01	02		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Bromoform	5	<5	<5		
4-Methyl-2-Pentanone	50	<50	<50		
2-Hexanone	50	<50	<50		
Tetrachloroethene	5	<5	<5		
1,1,2,2-Tetrachloroethane	5	<5	<5		
Toluene	5	14	16		
Chlorobenzene	5	<5	<5		
Ethylbenzene	5	<5	<5		
Styrene	5	<5	5.4		
1,2-Dichlorobenzene	5	<5	<5		
1,3-Dichlorobenzene	5	<5	<5		
1,4-Dichlorobenzene	5	<5	<5		
Xylene (total)	5	21	24		
Trichlorofluoromethane	5	<5	<5		



Superior Precision Analytical, Inc.

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C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84543
CLIENT: GROUNDWATER TECHNOLOGIES INC.
CLIENT JOB NO.: 020301038-030504

DATE RECEIVED: 12/04/91
DATE REPORTED: 12/11/91

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD & ZINC by EPA SW-846 Method 6010

LAB #	Sample Identification	Concentration (mg/L)			Zinc
		Cadmium	Chromium	Lead	
2	MW-1	ND<0.05	ND<0.05	ND<0.2	ND<0.05

mg/L - parts per million (ppm)

Method Detection Limit for Cadmium in Water: 0.05 mg/L
Method Detection Limit for Chromium in Water: 0.05 mg/L
Method Detection Limit for Lead in Water: 0.2 mg/L
Method Detection Limit for Zinc in Water: 0.05 mg/L

QAQC Summary: MS/MSD Average Recovery : 95/104%
Duplicate RPD : 9

Richard Srna, Ph.D.

Farrah Salimpour
Laboratory Manager



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84543
CLIENT: GROUNDWATER TECHNOLOGIES INC.
CLIENT JOB NO.: 020301038-030504

DATE RECEIVED: 12/04/91
DATE REPORTED: 12/11/91
DATE SAMPLED : 12/04/91

ANALYSIS FOR TOTAL NICKEL by SW-846 METHOD 6010

LAB #	Sample Identification	Concentration(mg/L) Total Nickel
2	MW-1	ND<0.1

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 94/97%
Duplicate RPD : 3

Richard Srna, Ph.D.

Richard Srna
Laboratory Manager



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

CERTIFICATE OF ANALYSIS

LABORATORY NO: 84543
CLIENT: GROUNDWATER TECHNOLOGIES
PROJECT NO: 020301038-030504

DATE SAMPLED :12/04/91
DATE RECEIVED:12/04/91
DATE REPORTED:12/18/91

EPA SW-846 METHOD 8010 HALOGENATED VOLATILE ORGANICS

LAB#: 84543-2 (Analyzed:12/17/91)
SAMPLE: MW-1 (Water)

ANALYTE	MDL(ug/L)	RESULT(ug/L)
Chloromethane/Vinyl Chloride	1.0	ND
Bromomethane/Chloroethane	1.0	ND
Trichlorofluoromethane	0.5	ND
1,1-Dichloroethene/Freon 113	0.5	ND
Dichloromethane	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,1-Dichloroethane	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
Chloroform	0.5	ND
1,1,1-Trichloroethane	0.5	ND
Carbon Tetrachloride	0.5	ND
1,2-Dichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
1,2-Dichloropropane	0.5	ND
Bromodichloromethane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
Dibromochloromethane	0.5	ND
Chlorobenzene	0.5	ND
Bromoform	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
1,2-Dichlorobenzene	0.5	ND

Surrogate (BFB) Recovery: 76%

MDL: Method Detection Limit

*Second Column confirmation available upon request.

QA/QC Summary: For Water Matrix (12/18/91)

MS/MSD Average Recovery: 110%

MS/MSD %RPD: 4%

Alannah Salinas
Senior Analyst

TABLE 2

**GROUNDWATER SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-6991
2920 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA**

<i>Boring/ Sample ID</i>	<i>Sample Date</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>MTBE</i>	<i>TBA</i>	<i>ETBE</i>	<i>DIPE</i>	<i>TAME</i>
← Concentrations reported in micrograms per liter (ug/L) →												
Gasoline UST Excavation												
PITWTR1	9/11/90	--	51,000	5,800	9,600	960	13,000	--	--	--	--	--
PITWTR2	9/11/90	--	54,000	6,200	10,000	1,100	14,000	--	--	--	--	--
Used-Oil UST Excavation												
WOWAT1	9/18/90	--	1,400	--	--	--	--	--	--	--	--	--
WOWAT2	9/18/90	--	510	--	--	--	--	--	--	--	--	--
Exploratory Borings												
SB1	3/6/02	<200	<50	<0.50	<0.50	<0.50	<1.5	<0.5	<5.0	<0.5	<0.5	<0.5
SB2	3/6/02	200	<50	<0.50	<0.50	<0.50	<1.5	<0.5	<5.0	<0.5	<0.5	<0.5
SB3	3/6/02	960	990	0.59	0.7	1.4	<1.5	8	<5.0	<0.5	<0.5	<0.5
SB6	3/6/02	<200	<50	<0.50	<0.50	<0.50	<1.5	<0.5	<5.0	<0.5	<0.5	<0.5
SB7	7/29/03	<50	<50	<0.50	<0.50	<0.50	<0.50	0.9	<5.0	<0.5	<0.5	<0.5

Abbreviations/Notes:

TPHd/TPHg = Total petroleum hydrocarbons as diesel and gasoline, respectively

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

ETBE = Ethyl tertiary butyl ether

DIPE = Di-isopropyl ether

TAME = Tertiary amyl methyl ether

-- = Not analyzed

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

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (fl)	GWE (msl)	DTW (fl)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
MW-1												
10/08/91	169.30	158.20	11.10	--	230	45	<0.5	0.9	9.1	--	<5,000	--
11/04/91	169.30	158.27	11.03	--	340	120	<0.5	<0.5	6.1	--	--	--
12/04/91	169.30	158.25	11.05	170	<50	3.9	<0.5	<0.5	<0.5	--	<5,000	--
06/05/92	169.30	158.26	11.04	<50	100	26	0.6	0.5	1.0	--	--	--
10/27/92	169.30	158.20	11.10	54	<50	11	<0.5	<0.5	<0.5	--	--	--
12/30/92	169.30	--	--	170	<50	24	<0.5	<0.5	<0.5	--	--	--
01/27/93	169.30	158.67	10.63	--	--	--	--	--	--	--	--	--
03/05/93	169.30	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	169.30	158.59	10.71	--	--	--	--	--	--	--	--	--
06/18/93	169.30	158.29	11.01	<50	<50	0.6	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.30	157.35	11.95	<50	<50	0.8	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.30	158.34	10.96	<50	<50	8.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.30	158.49	10.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.30	158.38	10.92	<50	<50	1.0	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.30	158.40	10.90	<50	<50	1.3	<0.5	<0.5	<0.5	--	--	--
11/30/94	169.30	158.76	10.54	570 ²	<50	8.9	<0.5	<0.5	<0.5	--	--	--
03/30/95	169.30	158.60	10.70	110 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	169.30	158.38	10.92	570 ¹	61	15	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.30	158.30	11.00	550 ¹	<50	4.7	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.30	158.50	10.80	330 ¹	72	9.1	0.65	<0.5	<0.5	6.0	--	--
03/05/96	169.30	159.20	10.10	780 ¹	<50	7.8	<0.5	<0.5	<0.5	<2.5	--	--
09/13/96	169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	--
12/19/96	169.30	158.08	11.22	--	--	--	--	--	--	--	--	--
03/20/97	169.30	158.40	10.90	350 ¹	<50	2.2	<0.5	<0.5	<0.5	<2.5	--	--
06/27/97	169.30	158.27	11.03	--	--	--	--	--	--	--	--	--
09/19/97	169.30	158.34	10.96	--	--	--	--	--	--	--	--	--
12/05/97	169.30	158.62	10.68	--	--	--	--	--	--	--	--	--
03/31/98	169.30	158.67	10.63	760 ¹	<50	6.7	<0.5	<0.5	<0.5	<2.5	--	--
06/19/98	169.30	159.62	9.68	--	--	--	--	--	--	--	--	--
08/13/98	169.30	157.67	11.63	--	--	--	--	--	--	--	--	--
12/17/98	169.30	158.25	11.05	--	--	--	--	--	--	--	--	--
03/19/99	169.30	158.35	10.95	890 ¹	124	14.8	<0.5	<0.5	<0.5	6.49/<2.5 ¹³	--	--
06/23/99	169.30	158.23	11.07	--	--	--	--	--	--	--	--	--
09/16/99	169.30	158.41	10.89	--	--	--	--	--	--	--	--	--
12/16/99	169.30	158.46	10.84	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (<i>fl</i>)	GWE (<i>mst</i>)	DTW (<i>fl</i>)	TPH-DRO (<i>ug/L</i>)	TPH-GRO (<i>ug/L</i>)	B (<i>ug/L</i>)	T (<i>ug/L</i>)	E (<i>ug/L</i>)	X (<i>ug/L</i>)	MTBE (<i>ug/L</i>)	TOG (<i>ug/L</i>)	ETHANOL (<i>ug/L</i>)	
MW-1 (cont)													
03/02/00	169.30	158.83	10.47	2,300 ¹	155	10.4	<0.5	<0.5	<0.5	10.3	--	--	
06/30/00	169.30	159.04	10.26	--	--	--	--	--	--	--	--	--	
09/30/00	NP	169.30	158.30	11.00	--	--	--	--	--	--	--	--	
12/19/00		169.30	158.44	10.86	--	--	--	--	--	--	--	--	
03/13/01	NP	169.30	158.45	10.85	-- ¹⁴	50.4	4.50	0.553	0.522	2.10	1.65	--	
06/12/01		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/18/01		169.30	158.23	11.07	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/17/01		169.30	158.59	10.71	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/21/02		169.30	158.54	10.76	-- ¹⁴	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
06/08/02		169.30	158.33	10.97	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/13/02		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/13/02		169.30	158.47	10.83	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/17/03		169.30	158.60	10.70	250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
06/16/03		169.30	158.34	10.96	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/15/03		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/15/03		169.30	158.71	10.59	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/01/04		169.30	158.78	10.52	NOT SAMPLED DUE TO INSUFFICIENT WATER							--	--
06/28/04		169.30	158.27	11.03	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/13/04		169.30	156.96	12.34	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/22/04		169.30	158.38	10.92	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/04/05		169.30	158.81	10.49	NOT SAMPLED DUE TO INSUFFICIENT WATER							--	--
06/30/05		169.30	158.54	10.76	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/16/05		169.30	158.33	10.97	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/21/05		169.30	158.70	10.60	--	--	--	--	--	--	--	--	
03/21/06 ¹⁶		169.30	158.93	10.37	1,100	<50	0.6	<0.5	<0.5	<0.5	1	<50	
06/21/06		169.30	158.37	10.93	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/05/06		169.30	158.32	10.98	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/28/06		169.30	157.52	11.78	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/26/07 ¹⁶		169.30	158.39	10.91	730	<50	0.6	<0.5	<0.5	<0.5	<0.5	<50	
06/26/07		169.30	158.30	11.00	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/26/07		169.30	158.26	11.04	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/20/07		169.30	158.66	10.64	SAMPLED ANNUALLY		--	--	--	--	--	--	
02/29/08 ¹⁶	PER	169.30	158.57	10.73	64	87	4	<0.5	<0.5	<0.5	1	<50	
05/09/08		169.30	158.38	10.92	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/19/08		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (fL)	GWE (mst)	DTW (fL)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
MW-1 (cont)												
12/04/08	169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/05/09 ¹⁶	PER-NP ²³	169.30	159.10	10.20	77	<50	<0.5	<0.5	<0.5	<0.5	--	<50
06/23/09		169.30	158.36	10.94	SAMPLED ANNUALLY		--	--	--	--	--	--
09/01/09		169.30	158.26	11.04	SAMPLED ANNUALLY		--	--	--	--	--	--
03/16/10 ¹⁶	PER	169.30	158.75	10.55	1,200	70	3	<0.5	<0.5	<0.5	1	--
09/21/10		169.30	158.20	11.10	SAMPLED ANNUALLY		--	--	--	--	--	--
03/23/11 ¹⁶	PER	169.30	159.02	10.28	180	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/11		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--
03/20/12 ¹⁶	PER	169.30	158.73	10.57	70	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/14/12		169.30	158.22	11.08	SAMPLED ANNUALLY		--	--	--	--	--	--
MW-2												
10/08/91	169.15	157.20	11.95	--	110	5.1	1.1	0.8	26	--	--	--
11/19/91	169.15	157.40	11.75	--	120	11	1.1	<0.5	17	--	--	--
12/04/91	169.15	157.35	11.80	130	440	30	2.5	<0.5	52	--	--	--
06/05/92	169.15	157.35	11.80	130	80	13	<0.5	<0.5	1.0	--	--	--
10/27/92	169.15	157.15	12.00	110	54	13	<0.5	<0.5	<0.5	--	--	--
12/30/92	169.15	--	--	92	180	30	<0.5	<0.5	1.0	--	--	--
01/27/93	169.15	158.24	10.91	--	--	--	--	--	--	--	--	--
03/05/93	169.15	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	169.15	158.26	10.89	--	--	--	--	--	--	--	--	--
06/18/93	169.15	157.41	11.74	<50	<50	1.4	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.15	157.97	11.18	<50	<50	0.6	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.15	158.34	21.00	<50	<50	0.9	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.15	158.40	10.75	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.15	158.35	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.15	157.50	11.65	120	<50	0.7	<0.5	<0.5	<0.5	--	--	--
11/30/94	169.15	158.41	10.74	570 ⁴	55	2.9	<0.5	1.4	0.94	--	--	--
03/30/95	169.15	158.25	10.90	430 ¹	91	4.5	<0.5	3.8	<0.5	--	--	--
06/06/95	169.15	157.73	11.42	410 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.15	157.52	11.63	220 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.15	157.98	11.17	120 ¹	<2,000	<20	<20	<20	<20	5,000	--	--
03/05/96	169.15	159.09	10.06	860 ¹	<2,000	<20	<20	<20	<20	10,000	--	--
09/13/96	169.15	157.37	11.78	1,300	1,100	25	<10	<10	<10	20,000	--	--

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Chevron Service Station #9-6991
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WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
MW-2 (cont)												
12/19/96	169.15	158.30	10.85	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
03/20/97	169.15	157.75	11.40	190 ¹	2400	<10	<10	46	<10	6,200	--	--
06/27/97	169.15	157.35	11.80	--	--	--	--	--	--	--	--	--
09/19/97	169.15	157.43	11.72	60 ¹	<50	<0.5	<0.5	<0.5	<0.5	280	--	--
12/08/97	169.15	158.27	10.88	--	--	--	--	--	--	--	--	--
03/31/98	169.15	158.46	10.69	220 ¹	110	30	0.74	0.74	0.59	1,000	--	--
06/19/98	169.15	159.31	9.84	--	--	--	--	--	--	--	--	--
08/31/98	169.15	157.43	11.72	380 ¹	<100	3.4	<1.0	<1.0	<1.0	980	--	--
12/17/98	169.15	157.60	11.55	--	--	--	--	--	--	480	--	--
03/19/99	169.15	158.63	10.52	107 ⁴	<250	12.7	<2.5	<2.5	<2.5	1,040/819 ¹³	--	--
06/23/99	169.15	159.61	9.54	--	--	--	--	--	--	--	--	--
09/16/99	169.15	157.54	11.61	84.9	<100	<1.0	<1.0	<1.0	<1.0	216	--	--
12/16/99	169.15	157.86	11.29	--	--	--	--	--	--	--	--	--
03/02/00	169.15	158.70	10.45	<50	84.8	21.5	<0.5	<0.5	0.636	413	--	--
06/30/00	169.15	159.08	10.07	--	--	--	--	--	--	--	--	--
09/30/00	NP	169.15	157.54	11.61	100 ¹¹	<50	<0.50	0.57	<0.50	1.0	2,800	--
12/19/00		169.15	158.04	11.11	--	--	--	--	--	--	--	--
03/13/01	NP	169.15	158.22	10.93	-- ¹⁴	179	11.6	2.01	0.856	3.66	1,290	--
06/12/01		169.15	157.52	11.63	--	--	--	--	--	--	--	--
09/18/01	NP	169.15	157.37	11.78	100	<50	<0.50	<0.50	<0.50	<1.5	670	--
12/17/01		169.15	158.29	10.86	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/13/02		169.15	157.50	11.65	200	<50	<0.50	<0.50	<0.50	<1.5	260	--
12/13/02		169.15	158.07	11.08	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/17/03		169.15	158.38	10.77	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/16/03		169.15	157.77	11.38	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/15/03 ^{16,17}		169.15	157.55	11.60	110	<50	<0.5	<0.5	<0.5	0.6	400	--
12/15/03		169.15	158.40	10.75	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/01/04		169.15	158.49	10.66	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/28/04		169.15	157.63	11.52	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/13/04		169.15	156.27	12.88	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
12/22/04		169.15	157.93	11.22	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/04/05		169.15	158.58	10.57	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/30/05		169.15	158.08	11.07	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/16/05 ¹⁶	NP	169.15	156.64	12.51	130	<50	<0.5	<0.5	<0.5	<0.5	140	<50
12/21/05		169.15	158.41	10.74	SAMPLED SEMI-ANNUALLY			--	--	--	--	--

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WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft</i>)	TPH-DRO (<i>µ</i> g/L)	TPH-GRO (<i>µ</i> g/L)	B (<i>µ</i> g/L)	T (<i>µ</i> g/L)	E (<i>µ</i> g/L)	X (<i>µ</i> g/L)	MTBE (<i>µ</i> g/L)	TOG (<i>µ</i> g/L)	ETHANOL (<i>µ</i> g/L)
MW-2 (cont)												
03/21/06 ¹⁶	169.15	158.74	10.41	72	<50	<0.5	<0.5	<0.5	<0.5	530	--	<50
06/21/06	169.15	157.64	11.51	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/05/06 ¹⁶	169.15	157.51	11.64	620	<50	<0.5	<0.5	<0.5	<0.5	150	--	<50
12/28/06	169.15	158.19	10.96	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
03/26/07 ¹⁶	169.15	157.74	11.41	86	<50	<0.5	<0.5	<0.5	<0.5	160	--	<50
06/26/07	169.15	157.60	11.55	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/26/07 ¹⁶	169.15	157.52	11.63	140	<50	<0.5	<0.5	<0.5	<0.5	69	--	<50
12/20/07	169.15	158.50	10.65	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
02/29/08 ¹⁶	PER	169.15	158.18	10.97	73	<50	<0.5	<0.5	<0.5	54	--	<50
05/09/08		169.15	157.74	11.41	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/19/08	PER	169.15	157.48	11.67	120	<50	<0.5	<0.5	<0.5	12	--	<50
12/04/08		169.15	157.67	11.48	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/05/09 ¹⁶	PER-NP ²³	169.15	158.65	10.50	<50	<50	<0.5	<0.5	<0.5	55	--	<50
06/23/09		169.15	157.65	11.50	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/01/09 ¹⁶	PER	169.15	157.55	11.60	75	<50	<0.5	<0.5	<0.5	10	--	--
03/16/10 ¹⁶	PER	169.15	158.50	10.65	120 ²⁴	<50	<0.5	<0.5	<0.5	23	--	--
09/21/10 ¹⁶	PER	169.15	157.67	11.48	84	<50	1	<0.5	<0.5	32	--	--
03/23/11 ¹⁶	PER	169.15	158.97	10.18	570	<50	<0.5	<0.5	<0.5	91	--	--
09/23/11 ¹⁶	PER	169.15	157.70	11.45	130	<50	<0.5	<0.5	<0.5	50	--	--
03/20/12 ¹⁶	PER	169.15	158.40	10.75	330	<50	0.7	<0.5	<0.5	31	--	--
09/14/12 ¹⁶	PER	169.15	157.39	11.76	620	70	<0.5	<0.5	<0.5	49	--	--
MW-4												
10/27/92	169.18	157.79	11.39	<50	<50	<0.5	0.6	0.5	4.3	--	--	--
12/30/92	169.18	159.05	10.13	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	169.18	160.09	9.09	--	--	--	--	--	--	--	--	--
03/05/93	169.18	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	169.18	159.28	9.90	--	--	--	--	--	--	--	--	--
06/18/93	169.18	158.50	10.68	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.18	159.82	9.36	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.18	159.91	9.27	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.18	160.37	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.18	160.27	8.91	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.18	158.79	10.39	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (fL)	GWE (msl)	DTW (fL)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
MW-4 (cont)												
11/30/94	169.18	160.08	9.10	58 ²	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	169.18	160.66	8.52	61 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	169.18	158.70	10.48	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.18	158.38	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.18	159.23	9.95	<50	<50	<0.5	<0.5	<0.5	<0.5	9.9	--	--
12/21/05 ¹⁶	169.18	159.65	9.53	76 ¹⁸	<50	<0.5	<0.5	<0.5	<0.5	0.7	--	<50
03/21/06 ¹⁶	169.18	160.35	8.83	<50	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	<50
06/21/06 ¹⁶	169.18	158.55	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
09/05/06 ¹⁶	169.18	158.24	10.94	170	<50	<0.5	<0.5	<0.5	<0.5	1	--	<50
12/28/06 ¹⁶	169.18	159.06	10.12	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
03/26/07 ¹⁶	169.18	158.73	10.45	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
06/26/07 ¹⁶	169.18	158.22	10.96	<50	<50	<0.5	<0.5	<0.5	<0.5	1	--	<50
09/26/07 ¹⁶	169.18	157.98	11.20	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
12/20/07 ¹⁶	169.18	159.01	10.17	62	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	<50
02/29/08 ¹⁶	169.18	159.32	9.86	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
05/09/08 ¹⁶	169.18	158.41	10.77	80	<50	<0.5	<0.5	<0.5	<0.5	0.6	--	<50
09/19/08 ¹⁶	169.18	157.97	11.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
12/04/08 ¹⁶	169.18	158.20	10.98	58	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
03/05/09 ¹⁶	169.18	159.36	9.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
06/23/09	169.18	158.45	10.73	SAMPLED ANNUALLY		--	--	--	--	--	--	--
09/01/09	169.18	158.10	11.08	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/16/10 ¹⁶	169.18	159.81	9.37	60 ²⁵	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/21/10	169.18	158.06	11.12	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/23/11 ¹⁶	169.18	160.39	8.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/23/11	169.18	158.32	10.86	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/20/12 ¹⁶	169.18	159.53	9.65	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/14/12	169.18	158.17	11.01	SAMPLED ANNUALLY		--	--	--	--	--	--	--
MW-6												
10/27/92	166.46	153.92	12.54	<50	600	22	22	24	130	--	--	--
12/30/92	166.46	156.26	10.20	470	1,700	170	16	46	160	--	--	--
01/27/93	166.46	156.44	10.02	--	--	--	--	--	--	--	--	--
03/05/93	166.46	--	--	150	480	76	0.9	3.1	7.1	--	--	--
03/17/93	166.46	155.79	10.67	--	--	--	--	--	--	--	--	--

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Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft</i>)	TPH-DRO (<i>ug/L</i>)	TPH-GRO (<i>ug/L</i>)	B (<i>ug/L</i>)	T (<i>ug/L</i>)	E (<i>ug/L</i>)	X (<i>ug/L</i>)	MTBE (<i>ug/L</i>)	TOG (<i>ug/L</i>)	ETHANOL (<i>ug/L</i>)	
MW-6 (cont)													
06/18/93	166.46	154.63	11.83	51	240	37	3.4	2.9	18	--	--	--	
09/28/93	166.46	154.90	11.56	120	150	11	1.2	1.3	4.3	--	--	--	
12/30/93	166.46	154.81	11.65	290	680	77	5.1	5.5	13	--	--	--	
04/07/94	166.46	155.34	11.12	<10	190	24	2.9	1.9	8.0	--	--	--	
05/31/94	166.46	--	--	--	--	--	--	--	--	--	--	--	
09/23/94	166.46	155.05	11.41	--	--	--	--	--	--	--	--	--	
11/30/94	166.46	156.58	9.88	150 ²	320	49	0.58	1.4	1.2	--	--	--	
12/15/03 ¹⁶	166.46	156.60	9.86	71	210	0.5	0.9	0.7	2	14	--	<50	
03/01/04 ^{16,21}	166.46	157.16	9.30	<250	150	<0.5	4	3	18	10	--	<50	
06/28/04 ^{16,21}	166.46	155.13	11.33	66	100	<0.5	<0.5	<0.5	<0.5	18	--	--	
09/13/04 ^{16,21}	166.46	154.88	11.58	<50	<50	<0.5	<0.5	<0.5	<0.5	17	--	<50	
12/22/04 ^{16,21}	166.46	155.75	10.71	300	440	1	1	2	3	10	--	<50	
03/04/05 ^{16,21}	166.46	157.25	9.21	75	65	<0.5	<0.5	<0.5	1	8	--	<50	
06/30/05 ^{16,21}	166.46	155.49	10.97	73	<50	<0.5	<0.5	<0.5	<0.5	7	--	<50	
09/16/05 ^{16,21}	166.46	155.02	11.44	58 ¹⁷	<50	<0.5	<0.5	<0.5	<0.5	13	--	<50	
12/21/05 ^{16,21}	166.46	156.66	9.80	120 ¹⁹	140	<0.5	<0.5	<0.5	1	8	--	<50	
03/21/06 ^{16,21}	166.46	157.54	8.92	75	52	<0.5	<0.5	0.9	3	8	--	<50	
06/21/06 ^{16,21}	166.46	155.38	11.08	56	92	<0.5	<0.5	0.5	2	10	--	<50	
09/05/06 ^{16,21}	166.46	155.07	11.39	67	62	<0.5	<0.5	<0.5	<0.5	9	--	<50	
12/28/06 ^{16,21}	166.46	156.32	10.14	300	260	<0.5	0.5	<0.5	1	3	--	<50	
03/26/07 ²¹	166.46	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
06/26/07 ¹⁶	166.46	155.32	11.14	67	<50	<0.5	<0.5	<0.5	<0.5	8	--	<50	
09/26/07 ¹⁶	166.46	155.02	11.44	84	180	<0.5	0.5	3	5	6	--	--	
12/20/07 ¹⁶	166.46	156.41	10.05	220	530	<0.5	0.7	1	7	2	--	-- ²²	
02/29/08 ¹⁶	166.46	156.49	9.97	110	110	<0.5	<0.5	1	4	4	--	<50	
05/09/08 ¹⁶	166.46	155.19	11.27	100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50	
09/19/08 ¹⁶	166.46	154.85	11.61	<50	<50	<0.5	<0.5	<0.5	<0.5	5	--	<50	
12/04/08 ¹⁶	166.46	155.08	11.38	<50	<50	<0.5	<0.5	<0.5	<0.5	5	--	<50	
03/05/09 ¹⁶	166.46	157.57	8.89	140	160	<0.5	<0.5	1	7	2	--	<50	
06/23/09	166.46	155.14	11.32	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	
09/01/09 ¹⁶	166.46	154.82	11.64	52	<50	<0.5	<0.5	<0.5	<0.5	5	--	--	
03/16/10 ¹⁶	166.46	156.78	9.68	76 ²⁵	100	<0.5	<0.5	0.7	7	0.7	--	--	
09/21/10 ¹⁶	166.46	154.98	11.48	51	<50	<0.5	<0.5	<0.5	<0.5	3	--	--	
03/23/11	166.46	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--

Table 1
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Chevron Service Station #9-6991
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Castro Valley, California

WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-DRO (<i>µ</i> g/L)	TPH-GRG (<i>µ</i> g/L)	B (<i>µ</i> g/L)	T (<i>µ</i> g/L)	E (<i>µ</i> g/L)	X (<i>µ</i> g/L)	MTBE (<i>µ</i> g/L)	TOG (<i>µ</i> g/L)	ETHANOL (<i>µ</i> g/L)
MW-6 (cont)												
09/23/11 ¹⁶	166.46	155.41	11.05	150	340	<0.5	<0.5	0.9	3	1	--	--
03/20/12 ¹⁶	166.46	157.06	9.40	52	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/14/12 ¹⁶	166.46	155.18	11.28	65	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	--
MW-7												
09/25/95	168.80	157.20	11.60	1,400 ¹	220	0.79	<0.5	0.67	<0.5	--	--	--
12/28/95	168.80	158.14	10.66	590 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/05/96	168.80	159.74	9.06	320 ¹	1,400	<10	<10	47	<10	5,300	--	--
06/27/96	168.80	157.27	11.53	630 ¹	<2,500	<25	<25	<25	<25	14,000	--	--
09/13/96	168.80	156.88	11.92	1,400	1,100	26	<10	24	<10	20,000	--	--
12/19/96	168.80	158.29	10.51	1,100 ³	<5,000	<50	<50	<50	<50	12,000	--	--
03/20/97	168.80	157.84	10.96	1,600 ³	<1,000	<10	<10	<10	<10	2,100/2,000 ¹³	--	--
06/27/97	168.80	157.02	11.78	1,600 ¹	2,000	<20	<20	<20	<20	11,000	--	--
09/19/97	168.80	156.87	11.93	1,900 ¹	<1,000	35	<10	<10	<10	13,000	--	--
12/05/97	168.80	158.40	10.40	1,100 ¹	2,100	47	2.7	28	<2.5	15,000	--	--
03/31/98	168.80	158.89	9.91	780 ¹	410	4.0	0.61	2.2	<0.5	<2.5	--	--
06/19/98	168.80	159.09	9.71	480 ¹	1,100	16	<10	17	<10	12,000	--	--
08/31/98	168.80	157.11	11.69	580 ¹	<500	350	22	<5.0	<5.0	47,000	--	--
12/17/98	168.80	157.70	11.10	970	1,800	<10	<10	24	<10	13,000/14,000 ¹³	--	--
03/19/99	168.80	158.51	10.29	615 ¹	1,280	<5.0	5.0	16.3	<5.0	2,240/2,910 ¹³	--	--
06/23/99	168.80	157.25	11.55	1,240 ¹	<5,000	<50	<50	<50	<50	18,000	--	--
09/16/99	168.80	157.31	11.49	2,230	<5,000	<50	<50	<50	<50	13,700	--	--
12/16/99	168.80	158.27	10.53	973 ¹	1,330	<1.0	6.44	14	5.17	10,800	--	--
03/02/00	168.80	159.25	9.55	880 ¹	1,980	7.22	<5.0	6.11	<5.0	4,230	--	--
06/30/00	168.80	157.68	11.12	620 ⁷	2,500 ⁶	6.0	8.5	16	72	6,900	--	--
09/30/00	NP	157.23	11.57	1,600 ⁷	1,700 ¹⁰	750	<5.0	<5.0	<5.0	7,300	--	--
12/19/00	168.80	158.26	10.54	1,100 ¹²	1,800 ¹⁰	<10	<10	<10	<10	4,900	--	--
03/13/01	168.80	158.74	10.06	1,500 ¹²	1,470	9.34	5.09	6.08	2.69	2,920	--	--
06/12/01	168.80	157.45	11.35	910 ¹⁵	920 ¹⁰	260	4.2	9.7	2.8	4,500	--	--
09/18/01	168.80	156.87	11.93	3,000	2,000	<0.50	<0.50	<0.50	<1.5	5,300	--	--
12/17/01	168.80	157.99	10.81	7,000	1,700	<5.0	<0.50	7.1	<1.5	4,100	--	--
03/21/02	168.80	158.56	10.24	13,000	3,200	<5.0	<0.50	24	<1.5	980	--	--
06/08/02	168.80	157.32	11.48	3,500	1,500	3.6	<0.50	8.5	<1.5	2,800	--	--
09/13/02	168.80	157.02	11.78	2,400	1,200	1.8	<1.0	2.8	<1.5	3,300	--	--

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WELL ID/ DATE	TOC (μ L)	GWE (msl)	DTW (μ L)	TPH-DRO (μ g/L)	TPH-GRO (μ g/L)	B (μ g/L)	T (μ g/L)	E (μ g/L)	X (μ g/L)	MTBE (μ g/L)	TOG (μ g/L)	ETHANOL (μ g/L)
MW-7 (cont)												
12/13/02	168.80	157.97	10.83	3,400	1,100	2.4	<0.50	2.3	<1.5	2,000	--	--
03/17/03	168.80	158.71	10.09	3,700	1,600	<10	<0.50	5.1	<1.5	1,000	--	--
06/16/03 ¹⁶	168.80	157.81	10.99	4,400	2,500	1	0.5	14	<0.5	260	--	--
09/15/03 ¹⁶	168.80	157.38	11.42	4,700	1,700	1	<0.5	6	0.5	790	--	<50
12/15/03 ¹⁶	168.80	158.58	10.22	3,200	610	<0.5	<0.5	1	<0.5	780	--	<50
03/01/04 ¹⁶	168.80	159.19	9.61	2,200	1,500	<0.5	<0.5	4	<0.5	16	--	<50
06/28/04 ¹⁶	168.80	157.38	11.42	3,700	2,500	2	<0.5	8	<0.5	300	--	--
09/13/04 ¹⁶	168.80	156.78	12.02	2,000	2,000	1	<1	4	<1	700	--	<100
12/22/04 ¹⁶	168.80	158.39	10.41	1,300	970	0.8	<0.5	5	<0.5	370	--	<50
03/04/05 ¹⁶	168.80	159.12	9.68	890	790	<0.5	<0.5	1	<0.5	5	--	<50
06/30/05 ¹⁶	168.80	157.63	11.17	2,600	1,300	<0.5	<0.5	3	<0.5	68	--	<50
09/16/05 ¹⁶	168.80	157.29	11.51	1,300	1,200	<0.5	<0.5	1	<0.5	380	--	<50
12/21/05 ¹⁶	168.80	158.74	10.06	1,600 ²⁰	1,300	<0.5	<0.5	2	<0.5	170	--	<50
03/21/06 ¹⁶	168.80	159.28	9.52	2,800	810	<0.5	<0.5	<0.5	<0.5	200	--	<50
06/21/06 ¹⁶	168.80	157.35	11.45	1,100	1,800	0.5	<0.5	2	<0.5	260	--	<50
09/05/06 ¹⁶	168.80	157.01	11.79	2,100	910	<0.5	<0.5	<0.5	<0.5	370	--	<50
12/28/06 ¹⁶	168.80	158.34	10.46	7,200	2,700	0.5	<0.5	3	<0.5	140	--	<50
03/26/07 ¹⁶	168.80	157.46	11.34	6,500	1,300	<0.5	<0.5	1	<0.5	150	--	<50
06/26/07 ¹⁶	168.80	157.15	11.65	2,100	1,900	0.6	<0.5	2	<0.5	170	--	<50
09/26/07 ¹⁶	168.80	156.98	11.82	2,200	670	<0.5	<0.5	<0.5	<0.5	420	--	<50
12/20/07 ¹⁶	168.80	158.23	10.57	4,300	2,600	0.8	<0.5	4	<0.5	130	--	<50
02/29/08 ¹⁶	168.80	158.56	10.24	2,400	1,400	<0.5	<0.5	2	<0.5	35	--	<50
05/09/08 ¹⁶	168.80	157.27	11.53	1,700	2,200	0.6	0.6	2	<0.5	76	--	<50
09/19/08 ¹⁶	168.80	156.86	11.94	10,000	610	<0.5	<0.5	<0.5	<0.5	430	--	<50
12/04/08 ¹⁶	168.80	157.16	11.64	3,000	1,100	<0.5	<0.5	<0.5	<0.5	440	--	<50
03/05/09 ¹⁶	168.80	159.46	9.34	1,000	2,100	<0.5	<0.5	3	<0.5	57	--	<50
06/23/09 ¹⁶	168.80	157.41	11.39	2,300	1,800	<0.5	<0.5	1	<0.5	100	--	--
09/01/09 ¹⁶	168.80	156.88	11.92	6,800	2,100	<0.5	<0.5	1	<0.5	150	--	--
03/16/10 ¹⁶	168.80	158.99	9.81	5,500	1,700	<0.5	<0.5	2	<0.5	9	--	--
09/21/10 ¹⁶	168.80	157.19	11.61	1,200	2,800	<0.5	<0.5	0.7	<0.5	16	--	--
03/23/11 ¹⁶	168.80	159.59	9.21	360	76	<0.5	<0.5	<0.5	<0.5	0.6	--	--
09/23/11 ¹⁶	168.80	157.32	11.48	340	420	<0.5	<0.5	<0.5	<0.5	14	--	--
03/20/12 ¹⁶	168.80	158.87	9.93	590	290	<0.5	<0.5	<0.5	<0.5	2	--	--
09/14/12 ¹⁶	168.80	157.24	11.56	700	1,100	<0.5	<0.5	<0.5	<0.5	16	--	--

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Castro Valley, California

WELL ID/ DATE	TOC (<i>fl</i>)	GWE (<i>msl</i>)	DTW (<i>fl</i>)	TPH-DRO (<i>ug/L</i>)	TPE-GRO (<i>ug/L</i>)	B (<i>ug/L</i>)	T (<i>ug/L</i>)	E (<i>ug/L</i>)	X (<i>ug/L</i>)	MTBE (<i>ug/L</i>)	TOG (<i>ug/L</i>)	ETHANOL (<i>ug/L</i>)	
MW-3													
10/08/91	169.11	160.84	8.27	--	81	1.9	0.7	0.8	2.4	--	--	--	
11/04/91	169.11	158.26	10.85	--	60	<0.5	<0.5	<0.5	<0.5	--	--	--	
12/04/91	169.11	158.06	11.05	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
06/05/92	169.11	157.96	11.15	170	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/27/92	169.11	157.51	11.60	120	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
12/30/92	169.11	--	--	170	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
01/27/93	169.11	160.00	9.11	--	--	--	--	--	--	--	--	--	
03/05/93	169.11	--	--	--	--	--	--	--	--	--	--	--	
03/17/93	169.11	159.16	9.95	--	--	--	--	--	--	--	--	--	
06/18/93	169.11	158.22	10.89	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
09/28/93	169.11	159.49	9.62	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
12/30/93	169.11	159.80	9.31	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
04/07/94	169.11	160.30	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
05/31/94	169.11	160.21	8.90	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
09/23/94	169.11	158.48	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
11/30/94	169.11	160.19	8.92	--	--	--	--	--	--	--	--	--	
03/30/95	169.11	160.01	9.10	290 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
06/06/95	169.11	158.79	10.32	150 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
09/25/95	169.11	158.11	11.00	260 ¹	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
12/28/95	169.11	158.96	10.15	200 ¹	<250	<2.5	<2.5	<2.5	<2.5	1,400	--	--	
12/17/98	169.11	158.86	10.25	130 ¹	<250	<2.5	<2.5	<2.5	<2.5	62,000	--	--	
03/19/99	169.11	159.37	9.74	139 ¹	<1,000	<10	<10	<10	<10	5,650/5,850 ¹³	--	--	
06/23/99	169.11	158.40	10.71	61.6 ¹	<2,000	<20	<20	<20	<20	6,700	--	--	
09/16/99	169.11	157.44	11.67	122	<1,000	<10	<10	<10	<10	1,910	--	--	
12/16/99	169.11	158.79	10.32	--	--	--	--	--	--	5,850	--	--	
12/20/00	169.11	158.91	10.20	96.8 ¹	65.2	<0.5	<0.5	<0.5	<0.5	1,790	--	--	
03/02/00	169.11	160.26	8.85	<50	<50	<0.5	<0.5	<0.5	<0.5	5,600	--	--	
06/30/00	169.11	158.81	10.30	<50	360 ⁵	<0.50	<0.50	<0.50	<0.50	1,300	--	--	
09/30/00	NP	169.11	158.07	11.04	--	150 ⁹	75	<1.3	<1.3	<1.3	8,200	--	--
12/19/00	NP	169.11	159.06	10.05	-- ¹⁴	<1,000	<10	<10	<10	<10	4,600	--	--
03/13/01	NP	169.11	159.76	9.35	-- ¹⁴	284	0.601	1.00	<0.500	1.27	3,670	--	--
06/12/01	NP	169.11	158.08	11.03	<50	140 ⁹	67	<0.50	<0.50	<0.50	2,600	--	--
09/18/01	NP	169.11	157.96	11.15	100	240	<0.50	<0.50	<0.50	<1.5	3,200	--	--
12/17/01		169.11	159.22	9.89	270	55	<0.50	<0.50	<0.50	<1.5	930	--	--

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Chevron Service Station #9-6991
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WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft</i>)	TPH-DRO (<i>ug/L</i>)	TPH-GRO (<i>ug/L</i>)	B (<i>ug/L</i>)	T (<i>ug/L</i>)	E (<i>ug/L</i>)	X (<i>ug/L</i>)	MTBE (<i>ug/L</i>)	TOG (<i>ug/L</i>)	ETHANOL (<i>ug/L</i>)
MW-3 (cont)												
03/21/02	169.11	159.38	9.73	290	190	<0.50	<0.50	<0.50	<1.5	2,600	--	--
06/08/02	169.11	158.21	10.90	110	110	<0.50	<0.50	<0.50	<1.5	2,200	--	--
09/13/02	169.11	158.26	10.85	<50	<50	<0.50	<0.50	<0.50	<1.5	650	--	--
12/13/02	169.11	159.11	10.00	120	<50	<0.50	<0.50	<0.50	<1.5	450	--	--
03/17/03	169.11	159.66	9.45	370	80	<0.50	<0.50	<0.50	<1.5	1,600	--	--
06/16/03	169.11	158.98	10.13	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
09/15/03	169.11	157.85	11.26	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
12/15/03 ¹⁶	169.11	159.78	9.33	-- ¹⁴	<50	<0.5	3	0.6	4	220	--	<50
03/01/04	169.11	159.22	9.89	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
06/28/04 ¹⁶	169.11	158.26	10.85	95	<50	<0.5	<0.5	<0.5	<0.5	980	--	--
09/13/04	169.11	DRY AT 12.96 FEET		--	--	--	--	--	--	--	--	--
12/22/04 ¹⁶	NP	169.11	159.14	9.97	-- ¹⁴	53	<0.5	<0.5	<0.5	110	--	<50
03/04/05 ¹⁶	NP	169.11	159.68	9.43	<50	<50	<0.5	<0.5	<0.5	460	--	<50
06/30/05 ¹⁶	NP	169.11	158.66	10.45	58 ¹⁷	<50	<0.5	<0.5	<0.5	600	--	<50
09/16/05 ¹⁶	NP	169.11	158.26	10.85	-- ¹⁴	<50	<0.5	<0.5	<0.5	530	--	<50
NOT MONITORED/SAMPLED												
MW-5												
10/27/92	167.41	157.46	9.95	<50	74	<0.5	<0.5	0.6	7.1	--	--	--
12/30/92	167.41	158.21	9.20	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	167.41	157.80	9.61	--	--	--	--	--	--	--	--	--
03/05/93	167.41	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	167.41	157.90	9.51	--	--	--	--	--	--	--	--	--
06/18/93	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/28/93	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/30/93	167.41	157.08	10.33	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	167.41	157.69	9.72	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	167.41	157.68	9.73	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	167.41	157.73	9.68	79 ²	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	167.41	157.79	9.62	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	167.41	157.67	9.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
NOT MONITORED/SAMPLED												

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Castro Valley, California

WELL ID/ DATE	TOC (μ L)	GWE (msl)	DTW (μ L)	TPH-DRO (μ g/L)	TPH-GRO (μ g/L)	B (μ g/L)	T (μ g/L)	E (μ g/L)	X (μ g/L)	MTBE (μ g/L)	TOG (μ g/L)	ETHANOL (μ g/L)
TRIP BLANK												
10/08/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/04/91	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	--	--	--	<50	--	--	--	--	--	--	--	--
03/05/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	--	--	--	--	--	--	--	--	--	--	--	--
06/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/28/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/05/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/27/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/13/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/19/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
06/27/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
09/19/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/05/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
06/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--
09/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/20/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/02/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

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WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft</i>)	TPH-DRO (<i>µ</i> g/L)	TPH-GRO (<i>µ</i> g/L)	B (<i>µ</i> g/L)	T (<i>µ</i> g/L)	E (<i>µ</i> g/L)	X (<i>µ</i> g/L)	MTBE (<i>µ</i> g/L)	TOG (<i>µ</i> g/L)	ETHANOL (<i>µ</i> g/L)
TRIP BLANK (cont)												
06/30/00 ⁸	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
12/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
03/13/01	--	--	--	--	<50.0	<0.500	0.534	<0.500	1.25	<0.500	--	--
06/12/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
09/18/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
QA												
12/17/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
03/21/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
06/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
09/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
12/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
03/17/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
06/16/03 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/15/03 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/15/03 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/01/04 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/28/04 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/13/04 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/22/04 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/04/05 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/30/05 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/16/05 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/21/05 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/21/06 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/21/06 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/05/06 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/28/06 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/26/07 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/26/07 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/26/07 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/20/07 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
02/29/08 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
05/09/08 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/19/08 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

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WELL ID/ DATE	TOC (fL)	GWE (msl)	DTW (ft)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
QA (cont)												
12/04/08 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/05/09 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/23/09 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/01/09 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
DISCONTINUED												
09/14/12 ¹⁶	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

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EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 30, 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

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

TPH-D = Total Petroleum Hydrocarbons as Diesel

TOG = Total Oil and Grease

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

NP = No Purge

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Chromatogram pattern indicates a non-diesel mix.
- 3 Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.
- 4 Chromatogram pattern indicates a non-diesel mix + discrete peaks.
- 5 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 6 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 9 Laboratory report indicates discrete peaks.
- 10 Laboratory report indicates gasoline C6-C12.
- 11 Laboratory report indicates unidentified hydrocarbons >C16.
- 12 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- 13 Confirmation run.
- 14 Insufficient water to obtain sample for TPH-D.
- 15 Laboratory report indicates unidentified hydrocarbons C9-C17.
- 16 BTEX and MTBE by EPA Method 8260.
- 17 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.
- 18 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel and contains individual peaks eluting in the DRO range.
- 19 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel, an additional pattern which elutes later in the DRO range, and individual peaks eluting in the DRO range.
- 20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and additional patterns which elute earlier and later in the DRO range.
- 21 Incorrect TOC elevation (168.80) was used in past reports. Correct TOC and GWE are shown.
- 22 Analysis inadvertently missed in the field.
- 23 No Purge due to insufficient water.
- 24 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
- 25 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is ND.

Table 2
Field Measurements and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID	DATE	D.O. (mg/L)	ORP (mV)	ALKALINITY (ug/L)	SULFATE (ug/L)	NITRATE as NITROGEN (ug/L)	FERROUS IRON (ug/L)
MW-1	12/21/05	3.7	151	581,000	184,000	6,400	29
	03/21/06	4.7	32	546,000	147,000	5,800	600
	06/21/06	SAMPLED ANNUALLY		--	--	--	--
	09/05/06	SAMPLED ANNUALLY		--	--	--	--
	12/28/06	SAMPLED ANNUALLY		--	--	--	--
	03/26/07	3.4	47	844,000 ³	112,000	3,600	22,400
	02/29/08	2.6	153	¹ <460/584,000 ²	158,000	4,500	730
MW-4	12/21/05	1.4	89	396,000	137,000	2,300	<8.0
	03/21/06	3.0	82	407,000	139,000	2,200	<8.0
	06/21/06	0.3	86	¹ 710/403,000 ²	136,000	2,700	12
	09/05/06	2.1	106	¹ <460/412,000 ²	147,000	2,700	210
	12/28/06	1.1	114	¹ <460/396,000 ²	175,000	2,500	<8.0
	03/26/07	1.2	188	393,000 ³	151,000	1,800	190
	06/26/07	1.9	31	392,000	179,000	2,900	<8.0
	09/26/07	2.3	110	¹ <460/412,000 ²	182,000	1,600	<8.0
	12/20/07	2.1	76	¹ <460/402,000 ²	169,000	1,400	<8.0
	02/29/08	1.6	88	¹ <460/396,000 ²	193,000	1,500	15
	05/09/08	1.1	77	¹ <460/399,000 ²	165,000	1,500	23
	09/19/08	1.7	43	¹ <460/420,000 ²	167,000	2,500	<8.0
MW-7	12/21/05	1.4	53	475,000	2,700	<400	820
	03/21/06	2.5	12	439,000	3,800	<400	3,800
	06/21/06	0.1	-62	¹ 1,400/480,000 ²	1,600	<250	5,000
	09/05/06	1.2	-23	¹ <460/419,000 ²	1,700	<250	3,500
	12/28/06	0.80	-36	¹ <460/498,000 ²	2,100	<250	1,000
	03/26/07	1.1	-24	490,000 ³	2,000	<250	2,200
	06/26/07	1.0	-72	426,000	1,800	<250	4,700
	09/26/07	.90	26	¹ <460/423,000 ²	2,400	<250	3,800
	12/20/07	1.3	-8	¹ <460/539,000 ²	3,200	<250	910
	02/29/08	1.2	80	¹ <460/510,000 ²	8,100	<250	690
	05/09/08	1.0	65	¹ <460/157,000 ²	2,700	<250	1,800
	09/19/08	1.7	25	¹ <460/403,000 ²	8,100	<250	8,000

Table 2
Field Measurements and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

EXPLANATIONS:

D.O. = Dissolved Oxygen

(mg/L) = milligrams per liter

ORP = Oxidation Reduction Potential

(mV) = millivolts

— = Not Analyzed

(µg/L) = Micrograms per liter

¹ pH 8.3.

² pH 4.5.

³ Laboratory report indicates this sample was analyzed past the 14-day hold time.

ANALYTICAL METHODS:

Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 8.3

Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 4.5

Sulfate by EPA Method 300.0

Nitrate as Nitrogen by EPA Method 300.00

Ferrous Iron by EPA Method SM20 3500-Fe B

ATTACHMENT 5

Drilling Log



**GROUNDWATER
TECHNOLOGY**

Monitoring Well MW-1

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Inc.
 Location Castro Valley, CA Project Number 020301038
 Date Drilled 9/24/91 Total Depth of Hole 21.0 ft. Diameter 2 in.
 Top of Casing _____ Water Level Initial 11 ft. Static _____
 Screen: Dia .75 in. Length 15 ft. Slot Size .020 in.
 Casing: Dia .75 in. Length 3.0 ft. Type SCH 80 PVC
 Filter Pack Material No 2/12 Labis Lustre Rig/Core Type _____
 Drilling Company Power Core Drill./Mon. Method Percussion Hammer / PID
 Driller Michael Nosewicz Log By Glen Mitchell
 Geologist/Engineer David Kleesattel License No 5136

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0		PID				Six inches ASPHALT
0 - 2					GC	light gray clayey GRAVEL (loose, dry)
2 - 4					SC	Brown clayey SAND (loose, dry)
4 - 6						Tan gravelly SAND (loose, moist)
6 - 10		0			SP	
10 - 12		0	A			Encountered water 9/24/91 (09:32 hours) Tan sandy gravel (loose, saturated)
12 - 14					GP	
14 - 16					CL	Mottled tan and dark brown silty CLAY (soft, saturated)
16 - 18					GC	Tan clayey GRAVEL (loose, saturated)
18 - 20					GC	Dark brown silty CLAY (soft, saturated)
20 - 22					CL	Tan clayey GRAVEL (loose, saturated)
22 - 24					GC	
24 - 26					CL	Mottled tan and gray silty CLAY (firm, moist)
26 - 21.0						End of boring at 21.0 feet. Constructed monitoring well.



**GROUNDWATER
TECHNOLOGY**

Drilling Log

Monitoring Well MW-2

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Inc.
 Location Castro Valley, CA Project Number 02030K038
 Date Drilled 9/24/91 Total Depth of Hole 21.0 ft. Diameter 2 in.
 Top of Casing _____ Water Level Initial 11 ft. Static _____
 Screen: Dia .75 in. Length 15 ft. Slot Size .020 in.
 Casing: Dia .75 in. Length 6.0 ft. Type SCH 80 PVC
 Filter Pack Material No 2/12 Labis Lustre Rig/Core Type _____
 Drilling Company Power Core Drill/Mon. Method Percussion Hammer / PID
 Driller Michael Nosewicz Log By Glen Mitchell
 Geologist/Engineer David Kleesattel License No 5136

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0		PID				ASPHALT
0						gravel FILL
2		8				Gray brown silty CLAY (firm, moist)
4						Dark gray silty CLAY (firm, moist)
6		4.4	A		CL	Mottled gray and tan silty CLAY (firm, moist) Grades with minor gravel
8						
10		10.4	B			Encountered water 9/24/91 (12:00 hours)
12						Gray brown clayey SILT with fine sand (firm, moist)
14		89.0			ML	Tan silty SAND (hard, saturated)
16						Gray clayey fine SAND (hard, saturated)
18					SC	Gray and rusty sandy CLAY (saturated.)
20					CL	Gray silty CLAY (saturated)
22						End of boring at 21.0 feet. Constructed groundwater monitoring well.
24						
26						



**GROUNDWATER
TECHNOLOGY**

Drilling Log

Monitoring Well MW-3

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Inc.
 Location Castro Valley, CA Project Number 020301038
 Date Drilled 9/30/91 Total Depth of Hole 20.0 ft. Diameter 2 in.
 Top of Casing _____ Water Level Initial _____ Static _____
 Screen: Dia .75 in. Length 15 ft. Slot Size .020 in.
 Casing: Dia .75 in. Length 5.0 ft. Type SCH 80 PVC
 Filter Pack Material No 2/12 Labis Lustre Rig/Core Type _____
 Drilling Company Power Core Drill./Mon. Method Percussion Hammer / PID
 Driller Michael Nosewicz Log By Greg Mischel
 Geologist/Engineer David Kleesattel License No RG 5136

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0		PID				Six inches asphalt
0 - 2						Pea gravel FILL (saturated from local inflow)
2 - 4					CL/ML	Brown to black silty CLAY (moist) Poor recovery
4 - 6					GW	Grades to black clayey SILT (moist) Sandy GRAVEL
6 - 8			A			Black clayey SILT
8 - 10			B		CL	Brown and gray silty gravelly CLAY (moist)
10 - 20						Slough in hole. No samples.
20						End of boring at 20.0 feet. Constructed groundwater monitoring well.
22						
24						
26						



GROUNDWATER
TECHNOLOGY

Drilling Log

Monitoring Well MW-4

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Products Co.
 Location Castro Valley, CA Project No. 02020 2778 Date drilled 09/25/92
 Surface Elev. 169.43 ft. Total Hole Depth 21.5 ft. Diameter 8 inches
 Top of Casing 169.18 ft. Water Level Initial 14 ft. Static 10/27/92 11.39 ft.
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 5 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustris #3 Rig/Core Type Mobile B-53/Spilt Spoon
 Drilling Company Kvilhauk Well Drilling Method Hollow Stem Auger Permit # 92365
 Driller Joel Visil Log By Jason Fedota
 Checked By David Kleesattel License No. RG# 5136 *D. Kleesattel*

See Site Map
For Boring Location

COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0						
2						
4						
6		0	8 13			Orange mottled brown CLAY (stiff and moist)
8						
10		0	7 16		CL	Orange mottled brown silty CLAY (stiff and moist)
12						
14						Encountered groundwater at 14 feet on 09/25/92.
16		0	4 6 10			Orange mottled brown silty CLAY (saturated).
18						
20			10 11 12			Orange mottled brown silty CLAY (saturated).
22						End of boring at 21.5 feet. Installed groundwater monitoring well.
24						



**GROUNDWATER
TECHNOLOGY**

Drilling Log

Monitoring Well **MW-5**

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Products Co.
 Location Castro Valley, CA Project No. 02020 2778 Date drilled 10/08/92
 Surface Elev. 169.0 ft. Total Hole Depth 21.5 ft. Diameter 8 inches
 Top of Casing 167.41 ft. Water Level Initial 13 ft. Static 10/27/92 9.95 ft.
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 5 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre #3 Rig/Core Type Mobile B-53/Split Spoon
 Drilling Company Kvilhaug Well Drilling Method Hollow Stem Auger Permit # 92365
 Driller Joel Visil Log By Jason Fedota
 Checked By David Kleesattel License No. RG# 5136 *David Kleesattel*

See Site Map
For Boring Location

COMMENTS:

Original soil boring for MW-5 was abandoned on September 25, 1992, because flowing sands obstructed installation of the well. The second boring for MW-5 was relocated approximately 5 feet from the original boring on October 10, 1992.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0						
2						
4						
6		0	3 5 5		CL	Dark brown CLAY (soft and moist) (abundant roots)
8						
10		0	4 6 6			Orange mottled brown silty CLAY (soft and moist)
12						
14						Encountered groundwater at 13 feet on 09/25/92.
16		0	8 9 11		GC	Brown clayey sandy GRAVEL (loose and saturated).
18						
20			10 10 12		SC	Brown gravelly clayey fine SAND (loose and saturated).
22						End of boring at 21.5 feet. Installed groundwater monitoring well.
24						



**GROUNDWATER
TECHNOLOGY**

Drilling Log

Monitoring Well **MW-6**

Project CHV/2920 Castro Valley Blvd. Owner Chevron U.S.A. Products Co.
 Location Castro Valley, CA Project No. 02020 2778 Date drilled 09/25/92
 Surface Elev. 166.68 ft. Total Hole Depth 26.5 ft. Diameter 8 inches
 Top of Casing 166.46 ft. Water Level Initial 15 ft. Static 10/27/92 12.54 ft.
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 9 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre #3 Rig/Core Type Mobile B-53/Spill Spoon
 Drilling Company Kvilhaug Well Drilling Method Hollow Stem Auger Permit # 92365
 Driller Joel Visil Log By Jason Fedota
 Checked By David Kleesattel License No. RG# 5136 *David P. Kleesattel*

See Site Map
For Boring Location

COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure)
-2						
0						
2						
4						
6		0	4 5 8			Black CLAY (soft and moist)
8					CL	
10		0	4 8 7			Brown sandy silty CLAY (soft and moist)
12						
14						
16		0	9 9 12			Encountered groundwater at 15 feet on 09/25/92 (0925).
18						Brown gravelly silty fine to medium SAND (saturated)
20		0	7 10 11		SM	
22						
24					CL	Orange mottled brown sandy silty CLAY (stiff and saturated)



**GROUNDWATER
TECHNOLOGY**

Drilling Log

Monitoring Well MW-6

Project CHV/2920 Castro Valley Blvd.

Owner Chevron U.S.A. Products Co.

Location Castro Valley, CA

Project No. 02020 2778

Date drilled 09/25/92

Depth (ft.)	Well Completion	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description
						(Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24		0	8 27 40		CL SC	Brown silty clayey SAND (firm and saturated)
26						End of boring at 26.5 feet. Installed groundwater monitoring well.
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						

Gettler-Ryan, Inc.

Log of Boring MW-7

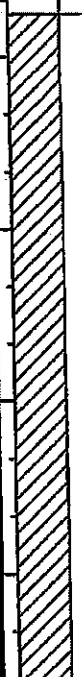
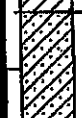
PROJECT: <i>Chevron SS# 9-6991</i>	LOCATION: <i>2920 Castro Valley Blvd, Castro Valley, CA</i>
G-R PROJECT NO.: <i>5296.01</i>	SURFACE ELEVATION: <i>168.80 feet MSL</i>
DATE STARTED: <i>08/30/95</i>	WL (ft. bgs): <i>12.0</i> DATE: <i>08/30/95</i> TIME: <i>16:30</i>
DATE FINISHED: <i>08/30/95</i>	WL (ft. bgs): <i>12.0</i> DATE: <i>08/30/95</i> TIME: <i>17:40</i>
DRILLING METHOD: <i>8 in. Hollow Stem Auger</i>	TOTAL DEPTH: <i>21.5 Feet</i>
DRILLING COMPANY: <i>Bay Area Exploration, Inc.</i>	GEOLOGIST: <i>B. Sieminski</i>

DEPTH feet	PTD (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
						CL	PAVEMENT - 4 inches of asphalt over baserock.	
						GC	SANDY CLAY WITH GRAVEL (CL) - black (10YR 1/2), damp, medium stiff, low plasticity; 50% fines, 30% fine to coarse sand, 20% gravel; fill.	
						CL	CLAYEY GRAVEL (GC) - dark yellowish brown (10YR 4/3), damp, very dense; 70% gravel and cobbles, 20% fines, 10% fine to coarse sand; cobbles subangular up to 4 inches in diameter; fill.	
5	10.4	13	MW7-5.5			CL	SILTY CLAY WITH SAND (CL) - dark greenish gray (5GY 4/1), damp, stiff, low plasticity; 80% fines, 20% fine sand. Color change to black (7.5YR 2/0), decreasing sand, medium plasticity at 4 feet.	
10	16.6	13	MW7-9.5			CL	Color change to grayish green (5G 5/2) mottled olive (5Y 5/4), 30% fine to coarse sand; noticeable hydrocarbon odor at 9 feet; increasing sand to 40%, becomes moist, trace fine gravel at 10 feet.	
		199	MW7-12			SC	CLAYEY SAND WITH GRAVEL (SC) - dark grayish green (5GY 4/1) mottled olive (5Y 4/4), moist, medium dense; 50% fine to coarse sand, 40% fines, 10% fine gravel; obvious hydrocarbon odor. Becomes saturated at 12 feet.	
15	0	14	MW7-15.5			CL	Color change to light olive brown (2.5Y 5/4) mottled dark yellowish brown (10YR 4/6) at 15 feet.	
20	0	15	MW7-21			CL	SANDY CLAY (CL) - dark bluish gray (5B 4/1), moist, stiff, low plasticity; 75% clay, 25% fine sand. Becomes damp at 21 feet.	
25							Bottom of boring at 21.5 feet, 08/30/95. (* = converted to equivalent standard penetration blows/ft.)	

Gettler-Ryan, Inc.		Log of Boring SBI	
PROJECT: <i>Chevron Service Station No. 9-8991</i>		LOCATION: <i>2920 Castro Valley Blvd., Castro Valley, CA</i>	
GR PROJECT NO.: <i>DG969916.4CT1</i>		SURFACE ELEVATION:	
DATE STARTED: <i>03/06/02</i>	WL (ft. bgs):	DATE:	TIME:
DATE FINISHED: <i>03/06/02</i>	WL (ft. bgs):	DATE:	TIME:
DRILLING METHOD: <i>3 1/4 in. Hand Auger</i>		TOTAL DEPTH: <i>12 feet</i>	
DRILLING COMPANY: <i>Gettler-Ryan, Inc.</i>		GEOLOGIST: <i>Tony Mikacich</i>	

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
3				CL	CLAY WITH SAND (CL) - dark brown (10YR 3/3), moist; 80% clay, 20% fine sand.	Boring backfilled with excavated soil to surface grade.
6	SBI-5				CLAY (CL) - dark brown (10YR 3/3), moist; 90% clay, 10% fine sand, trace organic matter.	
9	SBI-10				Becomes wet.	
12	SBI-W				SANDY CLAY (CL) - brown (10YR 5/3), wet; 70% clay, 30% fine to medium sand.	Grab groundwater sample SBI-W collected at 12 feet.
					Bottom of boring at 12 feet bgs.	
15						
18						
21						

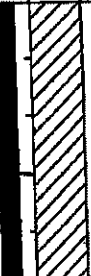

Gettler-Ryan, Inc.		Log of Boring SB2	
PROJECT: <i>Chevron Service Station No. 9-8991</i>		LOCATION: <i>2920 Castro Valley Blvd., Castro Valley, CA</i>	
GR PROJECT NO.: <i>DG98991G.4CT1</i>		SURFACE ELEVATION:	
DATE STARTED: <i>03/06/02</i>	WL (ft. bgs):	DATE:	TIME:
DATE FINISHED: <i>03/06/02</i>	WL (ft. bgs):	DATE:	TIME:
DRILLING METHOD: <i>3 1/4 in. Hand Auger</i>		TOTAL DEPTH: <i>18 feet</i>	
DRILLING COMPANY: <i>Gettler-Ryan, Inc.</i>		GEOLOGIST: <i>Tony Mikacich</i>	

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Concrete and base rock - 9 inches thick.	Boring backfilled with excavated soil to 6 inches bgs. Concrete used to surface grade.
					Asphalt - 8 inches thick.	
					Concrete and base rock - 12 inches thick.	
3				CL	CLAY (CL) - greenish gray (6G 5/1), moist; 90% clay, 10% fine sand.	
6	SB2-5.5					
9						
12						
15	SB2-W			SC	CLAYEY SAND (SC) - brown (10YR 5/3), wet; 70% fine to medium sand, 30% clay.	
18					Bottom of boring at 18 feet bgs.	Grab groundwater sample SB2-W collected at 18 feet.
21						

Gettler-Ryan, Inc.

Log of Boring SB3

PROJECT: <i>Chevron Service Station No. 9-6991</i>	LOCATION: <i>2920 Castro Valley Blvd., Castro Valley, CA</i>
GR PROJECT NO.: <i>DG98991G.4CT1</i>	SURFACE ELEVATION:
DATE STARTED: <i>03/06/02</i>	WL (ft. bgs): DATE: TIME:
DATE FINISHED: <i>03/06/02</i>	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: <i>3 1/4 in. Hand Auger</i>	TOTAL DEPTH: <i>6 feet</i>
DRILLING COMPANY: <i>Gettler-Ryan, Inc.</i>	GEOLOGIST: <i>Tony Mikacich</i>

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
3				CL	CLAY WITH SAND (CL) - black (7.6YR 2/0), moist; 80% clay, 20% fine to medium sand.	Boring backfilled with excavated soil to surface grade.
6	SB3-5.5 SB3-W				CLAY (CL) - dark brown (10YR 3/3), wet; 90% clay, 10% fine sand.	Grab groundwater sample SB3-W collected at 6 feet.
6					Bottom of boring at 6 feet bgs.	
9						
12						
15						
18						
21						

Gettler-Ryan, Inc.

Log of Boring SB4

PROJECT: *Chevron Service Station No. 9-6991*

LOCATION: *2920 Castro Valley Blvd., Castro Valley, CA*

GR PROJECT NO.: *D696991G.4CT1*

SURFACE ELEVATION:

DATE STARTED: *03/06/02*

WL (ft. bgs): DATE: TIME:

DATE FINISHED: *03/06/02*


WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/4 in. Hand Auger*

TOTAL DEPTH: *3.5 feet*

DRILLING COMPANY: *Gettler-Ryan, Inc.*

GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Concrete and base rock - 9 inches thick.	Boring backfilled with excavated soil to 8 inches bgs. Concrete used to surface grade.
					Asphalt - 4 inches thick.	
					Concrete and base rock - 12 inches thick.	
3				CL	SANDY CLAY (CL) - brown (10YR 5/3), moist; 70% clay, 30% sand.	
					Bottom of boring at 3.5 feet bgs.	
6						
9						
12						
15						
18						
21						

Gettler-Ryan, Inc.

Log of Boring SB5

PROJECT: *Chevron Service Station No. 9-8991*

LOCATION: *2920 Castro Valley Blvd., Castro Valley, CA*

GR PROJECT NO.: *DG96891G.4CT1*

SURFACE ELEVATION:

DATE STARTED: *03/06/02*

WL (ft. bgs): DATE: TIME:

DATE FINISHED: *03/08/02*



WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/4 in. Hand Auger*

TOTAL DEPTH: *14 feet*

DRILLING COMPANY: *Gettler-Ryan, Inc.*

GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
3	SB5-5			CL	CLAY (CL) - black (7.5YR 2/0), moist; 90% clay, 10% fine sand, trace organic matter and odor.	Boring backfilled with excavated soil to surface grade.
6						
9	SB5-10				Includes hydrocarbon odor.	
12					At approximately 13 feet Becomes saturated; Includes hydrocarbon sheen.	
15					Bottom of boring at 14 feet bgs.	
18						
21						

Gettler-Ryan, Inc.

Log of Boring SB6

PROJECT: *Chevron Service Station No. 9-6901*

LOCATION: *2920 Castro Valley Blvd., Castro Valley, CA*

GR PROJECT NO. : *DG9699IG.4CT1*

SURFACE ELEVATION:

DATE STARTED: *03/06/02*

WL (ft. bgs): DATE: TIME:

DATE FINISHED: *03/06/02*


WL (ft. bgs): DATE: TIME:

DRILLING METHOD: *3 1/4 in. Hand Auger*

TOTAL DEPTH: *12 feet*

DRILLING COMPANY: *Gettler-Ryan, Inc.*

GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt and base rock - 11 inches thick.	
3	SB6-5			CL	CLAY (CL) - brown (10YR 5/3), moist; 90% clay, 10% fine to medium sand.	Boring backfilled with excavated soil to 6 inches bgs. Asphalt used to surface grade.
6						
9						
12	SB6-W				SANDY CLAY (CL) - brown (10YR 5/3), saturated; 70% clay, 30% fine to medium sand.	Grab groundwater sample SB6-W collected at 12 feet.
					Bottom of boring at 12 feet bgs.	
15						
18						
21						



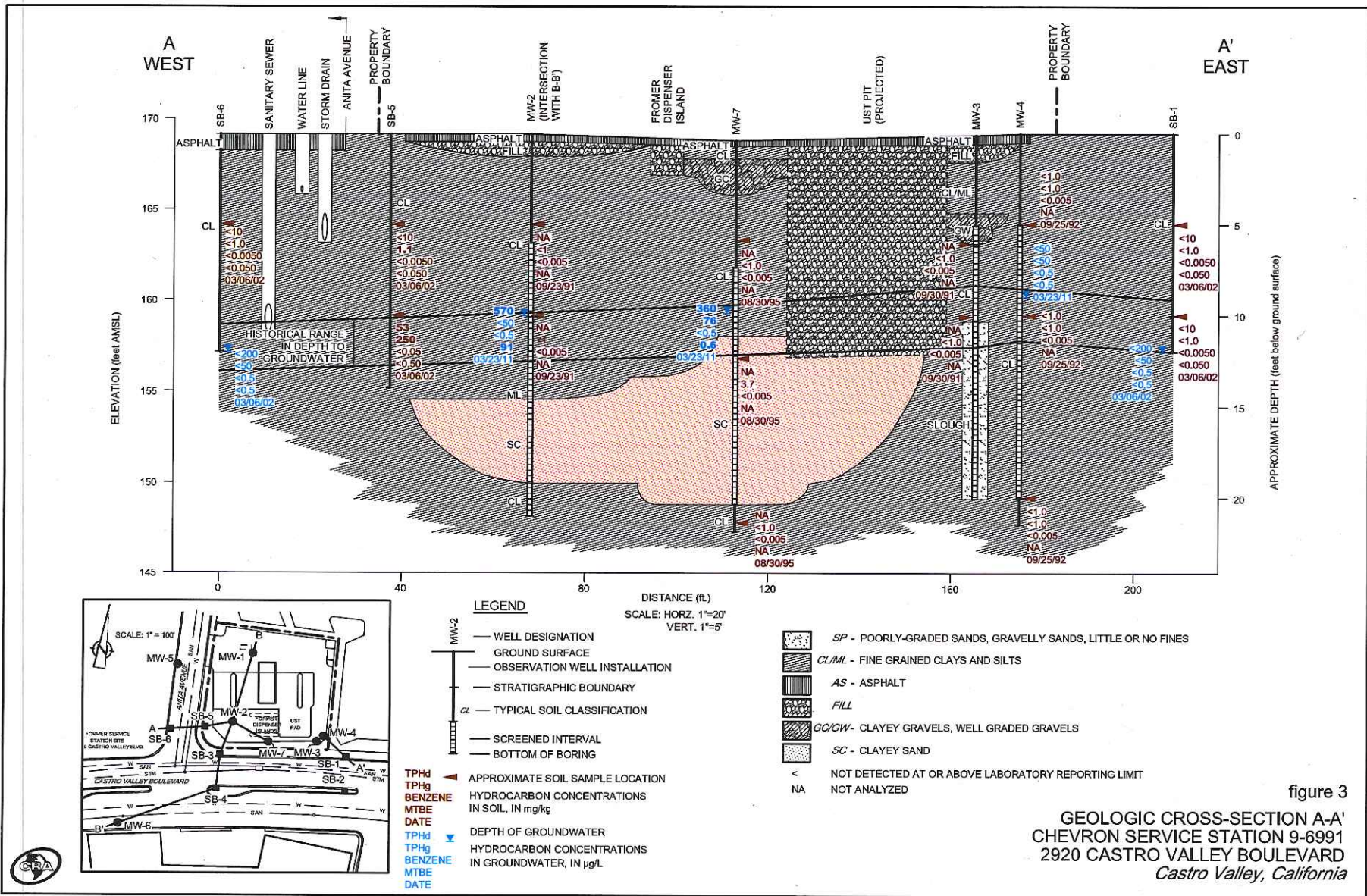
Cambria Environmental Technology, Inc.
 4111 Citrus Ave. Suite 12
 Rocklin, CA
 Telephone: 916.630.1855
 Fax: 916.630.1856

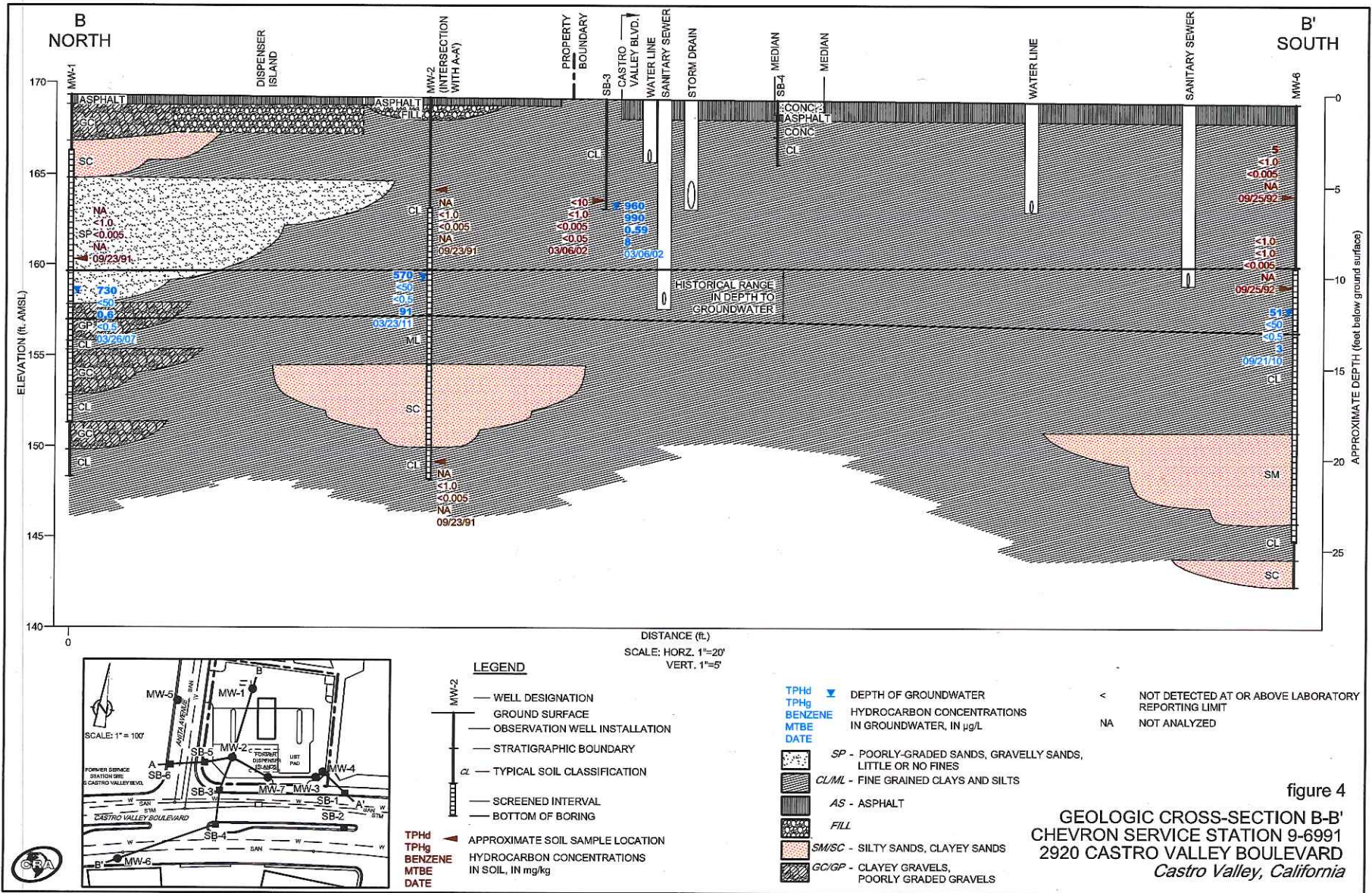
BORING/WELL LOG

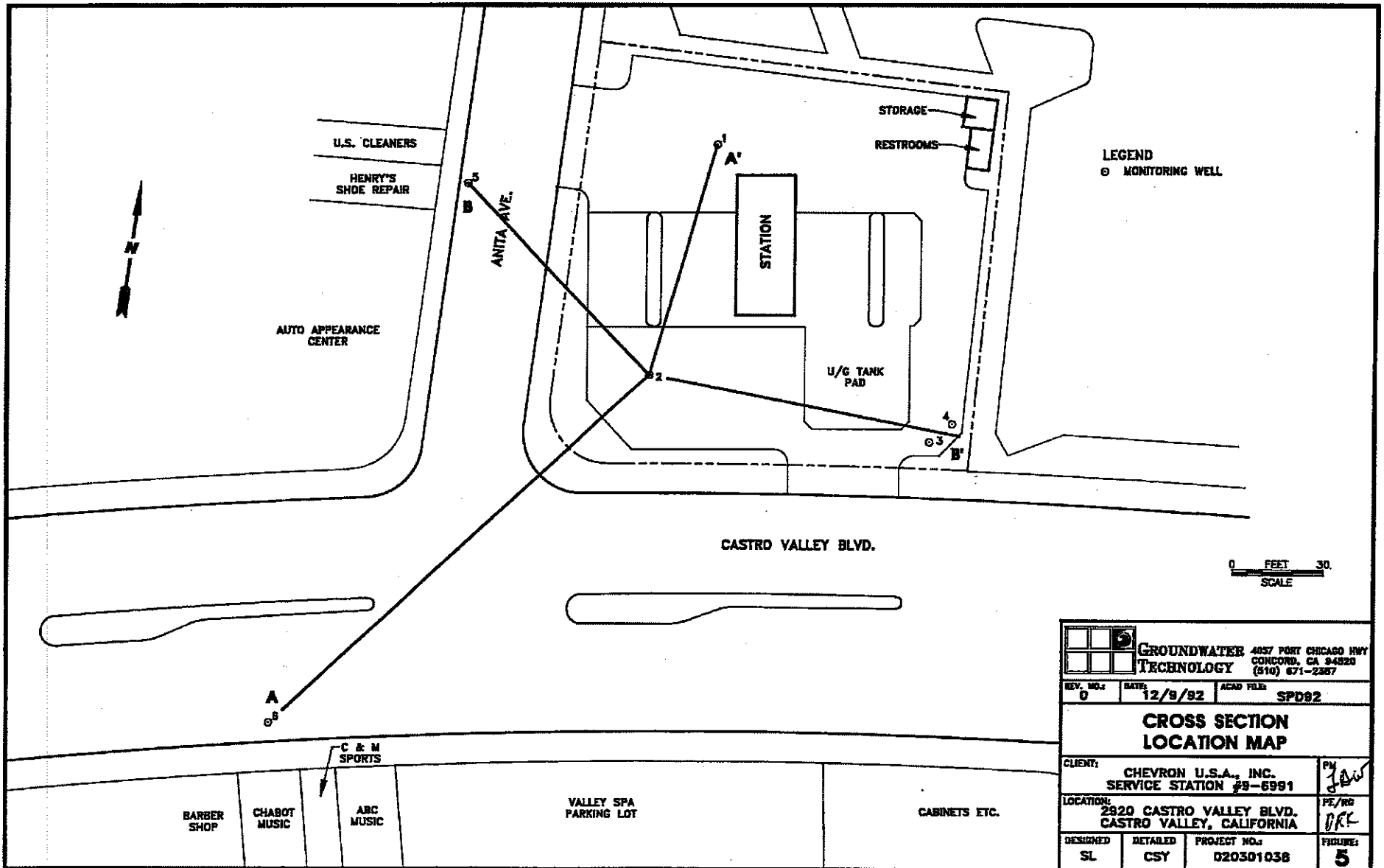
CLIENT NAME	Chevron Products Company	BORING/WELL NAME	SB-7
JOB/SITE NAME	Chevron Service Station 9-6991	DRILLING STARTED	29-Jul-03
LOCATION	2920 Castro Valley Blvd., Castro Valley, CA	DRILLING COMPLETED	29-Jul-03
PROJECT NUMBER	41D-1633	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2"	SCREENED INTERVAL	NA; NA
LOGGED BY	I. Robb	DEPTH TO WATER (First Encountered)	14.0 ft (29-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	▽ NA; NA ▽
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						Large gravel with fines (Fill)		
25	NA	SB-7@ 8'	8.0			Clayey SILT: Greenish Gray; dry; 60% silt, 40% clay; high plasticity; low estimated permeability.	8.0	
180	NA	SB-7@ 11.5'	11.5	ML				
430	NA	SB-7@ 13'	13.0			Clayey SILT: Greenish Gray; moist; 80% silt, 20% clay; moderate plasticity; low estimated permeability.	14.0	
<1.0	NA	SB-7@ 15.5'	15.5	ML				
<1.0	NA	SB-7@ 17'	17.0	ML		Sandy SILT: Brown; moist; 60% silt, 20% sand, 10% clay, 10% gravel; low plasticity; medium estimated permeability.	18.0	
<1.0	NA	SB-7@ 19.5'	19.0	ML		Sandy SILT: Light Brown; moist; 50% silt, 40% sand, 10% clay; low plasticity; medium estimated permeability.	19.0	
<1.0	NA	SB-7@ 19.5'	20.0	ML		Sandy SILT: Brown; moist; 60% silt, 20% sand, 10% clay, 10% gravel; low plasticity; medium estimated permeability.	20.0	
								Bottom of Boring @ 20 ft

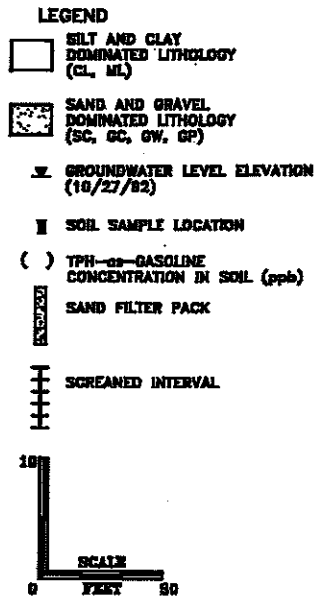
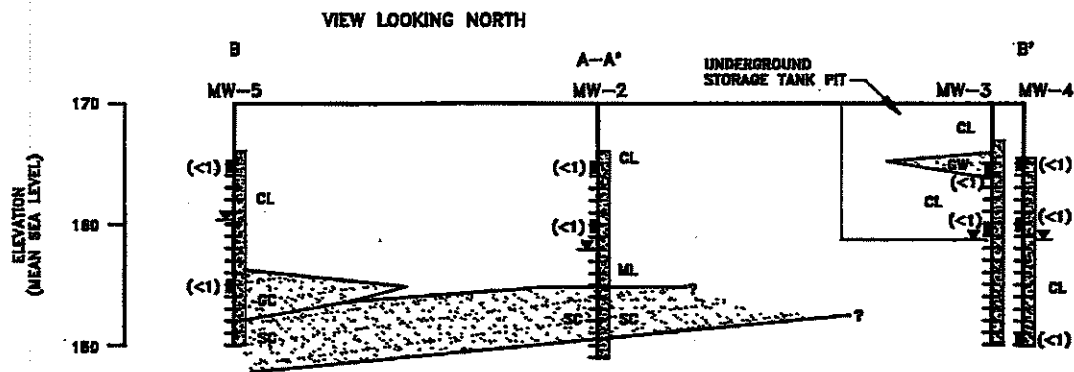
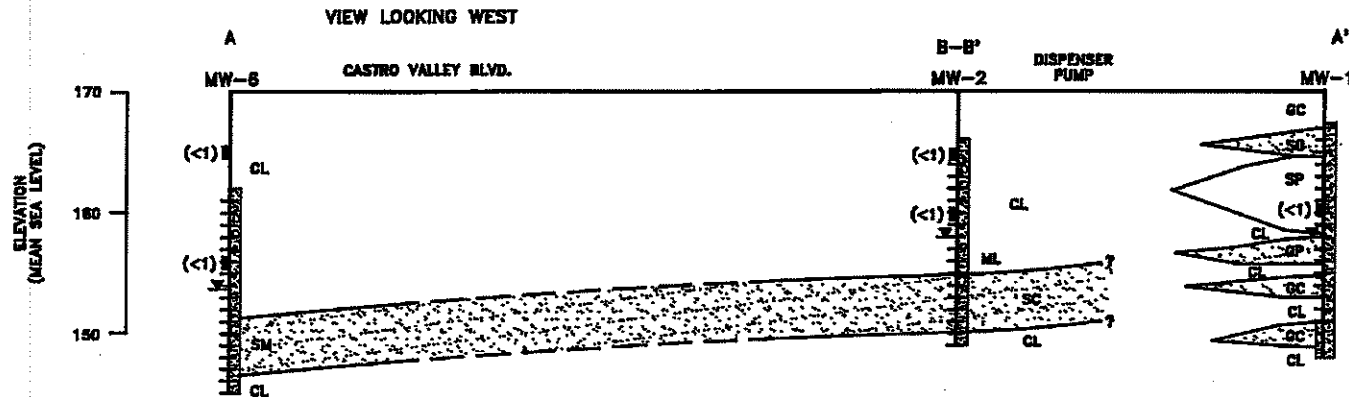
WELL LOG (NESTED/TPHG) R:9-6991--19-6991--219-6991,2003.GPJ_DEFAULT.GDT 8/8/05







		GROUNDWATER TECHNOLOGY 4057 FORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2287	
REV. NO.:	DATE:	ACAD FILE:	
0	12/9/92	SPD92	
CROSS SECTION LOCATION MAP			
CLIENT:		CHEVRON U.S.A., INC. SERVICE STATION #9-6991	
LOCATION:		2920 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA	
DESIGNED	DETAILED	PROJECT NO.:	FIGURE:
SL	CSY	020301038	5



		GROUNDWATER TECHNOLOGY		4657 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387
REV. NO.:	DATE:	ACAD. FILE:		
2	12/14/91	PSMS791/SP991		
GEOLOGIC CROSS SECTIONS				
A-A', B-B'				
CLIENT:	CHEVRON U.S.A., Inc. SERVICE STATION #9-6991			<i>JAW</i>
LOCATION:	2920 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA			PE/RS <i>DRK</i>
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:	
KV	CSY	020202778	6	