



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

April 4, 2013

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

J.T., Elizabeth G., W.T., and Jeanette Watters, Trust
600 Caldwell Road
Oakland, CA 94611

Subject: Case Closure for Fuel Leak Case No. RO0000220 and GeoTracker Global ID T0600101245,
Shell #13-5691, 285 Hegenberger Road, Oakland, CA 94621

Dear Mr. Brown and J.T., Elizabeth G., W.T., and Jeanette Watters, Trust:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). 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.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum hydrocarbons as gasoline remains in soil at concentrations up to 6,500 ppm.
- Benzene remains in soil at concentrations up to 13.2 ppm.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use as an active fueling station only.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032
(Sent via E-mail to: lgriffin@oaklandnet.com)

Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

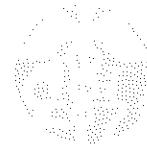
Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608 2032
(Sent via E-mail to: pschaefer@craworld.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc)
eFile (w/orig enc)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, 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

April 4, 2013

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

J.T., Elizabeth G., W.T., and Jeanette Watters, Trust
600 Caldwell Road
Oakland, CA 94611

Subject: Case Closure for Fuel Leak Case No. RO0000220 and GeoTracker Global ID T0600101245, Shell #13-5691, 285 Hegenberger Road, Oakland, CA 94621

Dear Mr. Brown and J.T., Elizabeth G., W.T., and Jeanette Watters, Trust:

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

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 (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director

Alameda County Environmental Health**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM****I. AGENCY INFORMATION**

Date: October 3, 2012

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Shell #13-5691		
Site Facility Address: 285 Hegenberger Road, Oakland, CA 94621		
RB Case No.: 01-1350	Local Case No.: STID 530	LOP Case No.: RO0000220
URF Filing Date: 06/12/1992	Geotracker ID: T0600101245	APN: 42-4425-18-2
Responsible Parties	Addresses	Phone Numbers
J.T., Elizabeth G., W.T., and Jeanette Watters, Trust	600 Caldwell Road Oakland, CA 94611	---
Denis Brown Shell Oil Products, US	20945 S. Wilmington Avenue Carson, CA 90810-1039	(707) 865-0251

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
---	Not Reported	Gasoline	Removed	1984
---	550	Waste Oil	Removed	03/30/1992
Piping		Upgraded		07/2004

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Site investigation was initiated in 1989 in response to detection of petroleum hydrocarbons in soil samples collected near the northern property line.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 13	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 1.14 fbsgs	Lowest Depth: 9.56 fbsgs	Flow Direction: Predominantly to the southeast.
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well is an irrigation well located approximately 600 feet northeast of the site. Based on the cross gradient location and distance from the site, the irrigation well is not expected to be a receptor for the site. A second irrigation well is located approximately 1,900 feet southeast of the site. Based on the distance from the site, the second irrigation well is not expected to be a receptor for the site. No other water supply wells are located within 2,000 feet of the site.		
Are drinking water wells affected? No	Aquifer Name: East Bay Plain	
Is surface water affected? No	Nearest SW Name: San Leandro Channel is approximately 80 south of the site.	
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.		
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tanks	1-550-gallon	Not Reported	03/30/1992
Piping	Not Reported	Not Reported	07/2004
Free Product	----	----	----
Soil	20 cubic yards 70 cubic yards	Disposed off-site at Laidlaw Environmental Services Landfill in Buttonwillow, CA Disposed off-site at Forward Landfill in Manteca, CA	03/1992 07/13/2004
Groundwater	----	----	----

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)	31,000	6,500	140,000(1)	23,000(1)
TPH (Diesel)	7,600	170	460,000(2)	1,800(2)
Oil and Grease	6,800	6,800	720,000(3)	Not Analyzed(3)
Benzene	22	13.2	28,000(4)	10,000(4)
Toluene	110	38	26,000(5)	81(5)
Ethylbenzene	100	61	13,000(6)	510(6)
Xylenes	510	500	22,000(7)	190(7)
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	34(8)	34(8)	Not Analyzed	Not Analyzed
MTBE	40(9)	7.1(10)	32,000(11)	230(12)
Other (8240/8270)	Not Detected(13)	Not Detected(13)	Not Detected(13)	Not Detected(13)

- 1) The maximum concentration before cleanup is from a groundwater sample from well MW-7 on 04/10/1991; the maximum concentration after cleanup is from a groundwater sample collected from well MW-10 during the most recent groundwater monitoring event on 01/05/2012.
- (2) The maximum concentration before cleanup is from a grab groundwater sample from boring SLH-1 collected on 02/12/1992; the maximum concentration after cleanup is from a groundwater sample collected from well VEW-6 during the most recent groundwater monitoring event on 01/05/2012.
- (3) The maximum concentration before cleanup is from a grab groundwater sample from boring SLH-1 collected on 02/12/1992; no groundwater samples were analyzed for oil & grease after 1992.
- (4) The maximum concentration before cleanup is from a groundwater sample from well MW-7 on 01/14/1993; the maximum concentration after cleanup is from a groundwater sample collected from well MW-10 during the most recent groundwater monitoring event on 01/05/2012.
- (5) The maximum concentration before cleanup is from a groundwater sample from well MW-7 on 07/23/1990; the maximum concentration after cleanup is from a groundwater sample collected from well MW-10 during the most recent groundwater monitoring event on 01/05/2012.
- (6) The maximum concentration before cleanup is from a groundwater sample from well MW-7 on 07/23/1990; the maximum concentration after cleanup is from a groundwater sample collected from well MW-10 during the most recent groundwater monitoring event on 01/05/2012.
- (7) The maximum concentration before cleanup is from a groundwater sample from well MW-10 on 01/10/2005; the maximum concentration after cleanup is from a groundwater sample collected from well MW-10 during the most recent groundwater monitoring event on 01/05/2012.
- (8) Total lead = 34 ppm; Cadmium <0.5 ppm; Chromium = 23 ppm; Nickel = 29 ppm; and Zinc = 30 ppm.
- (9) MTBE = 40 ppm; EDB and EDC < 1.0 ppm; no other fuel oxygenates analyzed.
- (10) MTBE = 7.1 ppm; EDB and EDC <1.0 ppm; no other fuel oxygenates analyzed.
- (11) MTBE = 32,000 ppb; TBA = 9,800 ppb; DIPE; ETBE and TAME <2.0 ppb; EDB and EDC not analyzed.
- (12) During the most recent groundwater monitoring event on 01/05/2012, MTBE = 230 ppb; TBA = 160 ppb; DIPE, ETBE, and TAME <2.0 ppb; EDB and EDC not analyzed.
- (13) VOCs and PCBs not detected above various reporting limits.

Site History and Description of Corrective Actions:

The site is an active gasoline service station located at the intersection of Leet Drive and Hegenberger Road in Oakland, CA. Surrounding land use is commercial. San Leandro Channel is approximately 80 feet south of the site on the opposite side of Leet Drive.

In 1984, the on-site USTs were replaced with single-wall fiberglass tanks, but no records are available that document their removal. Between February and November 1989, ten groundwater monitoring wells were installed. Up to 31,000 ppm of total petroleum hydrocarbons as gasoline (TPHg) and 14 ppm of benzene were detected in soil samples collected during well installation. During August and September 1990, soil borings were advanced at the adjacent property (295 Hegenberger Road) occupied by Rollins Trucking. Up to 4,000 ppm of TPHg and 22 ppm of benzene were detected in soil samples from the borings.

In July 1991, a soil gas survey was conducted in backfill for a 54-inch storm drain in the southbound lanes of Hegenberger Road to investigate the presence of hydrocarbons in a utility trench. Up to 62 milligrams per liter (mg/L) of TPHg and 0.89 mg/l of benzene were detected in the five soil gas samples.

In November 1991, one soil vapor extraction (SVE) well and three soil vapor monitoring points were installed. Short-term SVE tests using the wells indicated a radius of influence of 30 to 35 feet with heterogeneous vapor permeability.

In February and March 1992, hydraulic lifts, an oil/water separator, and a waste oil tank were removed. Due to detections in confirmation soil samples, additional excavation was conducted in the three areas on April 21, 1992. From May 18 to 20, 1992, additional excavation occurred around the northern product island during station remodeling activities. Post-excavation soil samples contained up to 1,800 ppm of TPHg, 7,600 ppm TP Hd, and 1.9 ppm benzene.

In June 1993, three groundwater monitoring wells and four dual-completion soil vapor extraction and air sparging (SVE/AS) wells were installed. An SVE system was operated between August 1993 and February 1995. System operation was discontinued in February 1995 due to negligible hydrocarbon removal. The SVE system removed approximately 707 pounds of TPHg and 6.9 pounds of benzene. SVE well VEW-5 was destroyed on September 14, 1995 to accommodate car wash construction. Monitoring wells MW-5 and MW-7 were also destroyed in 1995.

The USTs and dispensers were upgraded in July 1998. Soil samples collected beneath the dispensers contained up to 790 ppm TPHg, 400 ppm TP Hd, and 2.0 ppm benzene.

In March 1999, three soil borings were advanced between the site and a 54-inch storm drain running along the westbound lands of Hegenberger Road. Up to 43 ppm TPHg and 36 ppm TP Hd were detected in soil samples from the borings. Benzene and MTBE were not detected at concentrations above the reporting limit in soil samples from the borings. Up to 16,500 ppb of TPHg, 5,080 ppb of TP Hd, and 268 ppb of benzene, and 180 ppb of MTBE were detected in grab groundwater samples collected from the borings. Based on the higher concentrations of petroleum hydrocarbons in soil and groundwater samples from the borings than in downgradient monitoring wells, the data suggested that the storm drain intercepted the plume or the plume stabilized prior to reaching the downgradient monitoring wells. Based on a method for estimation of contaminant transport within utility corridors, the discharge concentration to San Leandro Channel was estimated at 2,680 ppb TPHg, 23 ppb benzene and 13 ppb MTBE.

In November 1999, short-term SVE testing was conducted using four existing SVE wells followed by a 5-day SVE test using wells VW-1 and VW-4. During the short-term tests, TPHg removal rates were 0.95 to 2.1 pounds per day per well. During the long-term test, the TPHg removal rate ranged from 2.13 to 5.95 pounds per day. A total of 18.7 pounds of TPHg, 2.3 pounds of MTBE, and 0.97 pounds of benzene were removed during SVE testing.

Site History and Description of Corrective Actions (continued):

In June 2000, three additional SVE/AS wells were installed along the southeast side of the site. Up to 1,800 ppm of TPHg, 2.93 ppm MTBE, and 13.2 ppm of benzene were detected in soil samples from the well borings. Between March 2002 and February 2003, an SVE/As system was operated using wells VEW-5/AS-1, VEW-6/AS-2, and/or VEW-7/AS-3. The system was shutdown in February 2003 due to declining influent concentrations. The SVE/AS system removed an estimated 99.3 pounds of TPHg, 0.18 pounds of MTBE, and 0.48 pounds of benzene.

In June and July 2004, the fuel dispensers and piping were upgraded. Nine soil samples collected from beneath the dispensers and piping. Up to 7,200 ppm of TPHg, 1,800 ppm of TPHd, and 3.3 ppm of benzene, and 40 ppm of MTBE were detected in the soil samples. Following overexcavation of the piping trenches, seven additional soil samples were collected. Up to 6,500 ppm of TPHg, 170 ppm of TPHd, 3.6 ppm of benzene, and 21 ppm of MTBE were detected in over-excavation soil samples.

In November 2004, a dual-phase extraction (DPE) test was conducted using wells MW-1, MW-9, and MW-10. Vacuum influence was monitored but not detected in surrounding wells. A low groundwater extraction rate resulted in 950 gallons removed during 213 hours of DPE operation.

In April 2005, an additional DPE test was conducted using well MW-10. During 148.5 hours of operation, an estimated 2.19 pounds of TPHg, 0.157 pounds of benzene, and 0.425 pounds of MTBE were removed from well MW-10. A total of approximately 1,000 gallons of water was extracted during 148.5 hours of DPE for an average extraction rate of 0.11 gallons per minute.

Groundwater has been monitored at the site since February 1989. The monitoring data indicate that the plume generally appears to be stable with slowly decreasing trends in concentrations observed in site monitoring well data.

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.		
Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the criteria in the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Benzene concentrations in shallow soil exceed the direct contact and outdoor air exposure criteria prescribed in the LTCP for residential and commercial land use. 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 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 re-development occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for direct exposure and 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 This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No	Date Recorded: ---	
Monitoring Wells Decommissioned: No	Number Decommissioned: 3	Number Retained: 10
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Because the site is an active commercial fueling station, the LTCP does not require evaluation of the potential for vapor intrusion to indoor air and does not consider the potential for vapor intrusion if land use changes in the future. Therefore, this site has not been evaluated for vapor intrusion to indoor air. The depth to groundwater is typically less than five feet and the highest concentrations of residual contamination appear to be within the capillary fringe zone. If future on-site land use changes to something other than a retail fueling station, the potential for vapor intrusion to indoor air should be re-evaluated.

Based on the apparent horizontal distance between off-site buildings and the residual contamination and the criteria for consideration of bioattenuation zones described in the LTCP, evaluation of the potential for vapor intrusion to indoor air does not appear to be warranted for the off-site buildings.

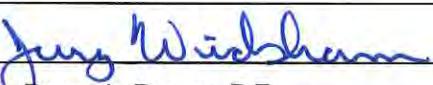
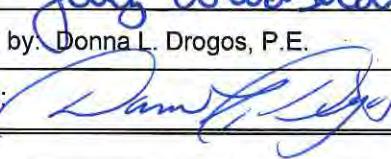
San Leandro Creek is less than 100 feet from the edge of the hydrocarbon plume. Based on this limited distance to a surface water receptor, the site does not meet the criteria for low-threat closure within any of the four prescribed groundwater classifications in the LTCP. However, based on the age of the plume, site hydrogeology, and apparent stability of the plume, the potential for the plume to pose a threat to San Leandro Creek appears to be low. The potential for migration along preferential pathways provided by utility corridors has been evaluated for the site. Based this evaluation, potential discharges from the utility corridors to San Leandro Creek are not expected to pose a significant risk to water quality in San Leandro Creek.'

Benzene concentrations in shallow soil exceed the direct contact and outdoor air exposure criteria prescribed in the LTCP for residential land use, commercial land use, and utility workers. 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 exposure under the current land use. Future risks from direct contact and outdoor air exposure can be mitigated through the use of land use restrictions. Therefore, case closure is granted for the current commercial land use as an active commercial fueling station.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the criteria 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. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any residential, commercial other than as a commercial fueling station, or conservative land use, or construction or excavation activities take place.

VI. LOCAL AGENCY REPRESENTATIVE DATA

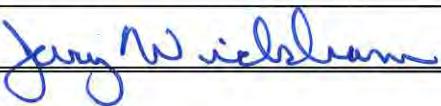
Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 10/10/12
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 10/10/12

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: 10/10/12	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 12/6/12	Date of Well Decommissioning Report: 04/02/13	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 24	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: 	Date: 04/04/13	

Attachments:

1. Site Vicinity Map and Aerial Photograph (2 pp)
2. Utility Map, Sample Location Maps, and Groundwater Contour Maps (7 pp)
3. Cross Sections (6 pp)
4. Soil Analytical Data (10 pp)
5. Groundwater Analytical Data (29 pp)
6. Boring Logs (59 pp)

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

Wickham, Jerry, Env. Health

From: McCaulou, Cherie@Waterboards [Cherie.MCcaulou@waterboards.ca.gov]
Sent: Thursday, October 11, 2012 11:02 AM
To: Wickham, Jerry, Env. Health
Subject: RE: Pending closure for case RO220 285 Hegenberger Road, Oakland

Jerry – The Regional Water Board has not objection to the ALEH's recommendation for case closure. Thank you.

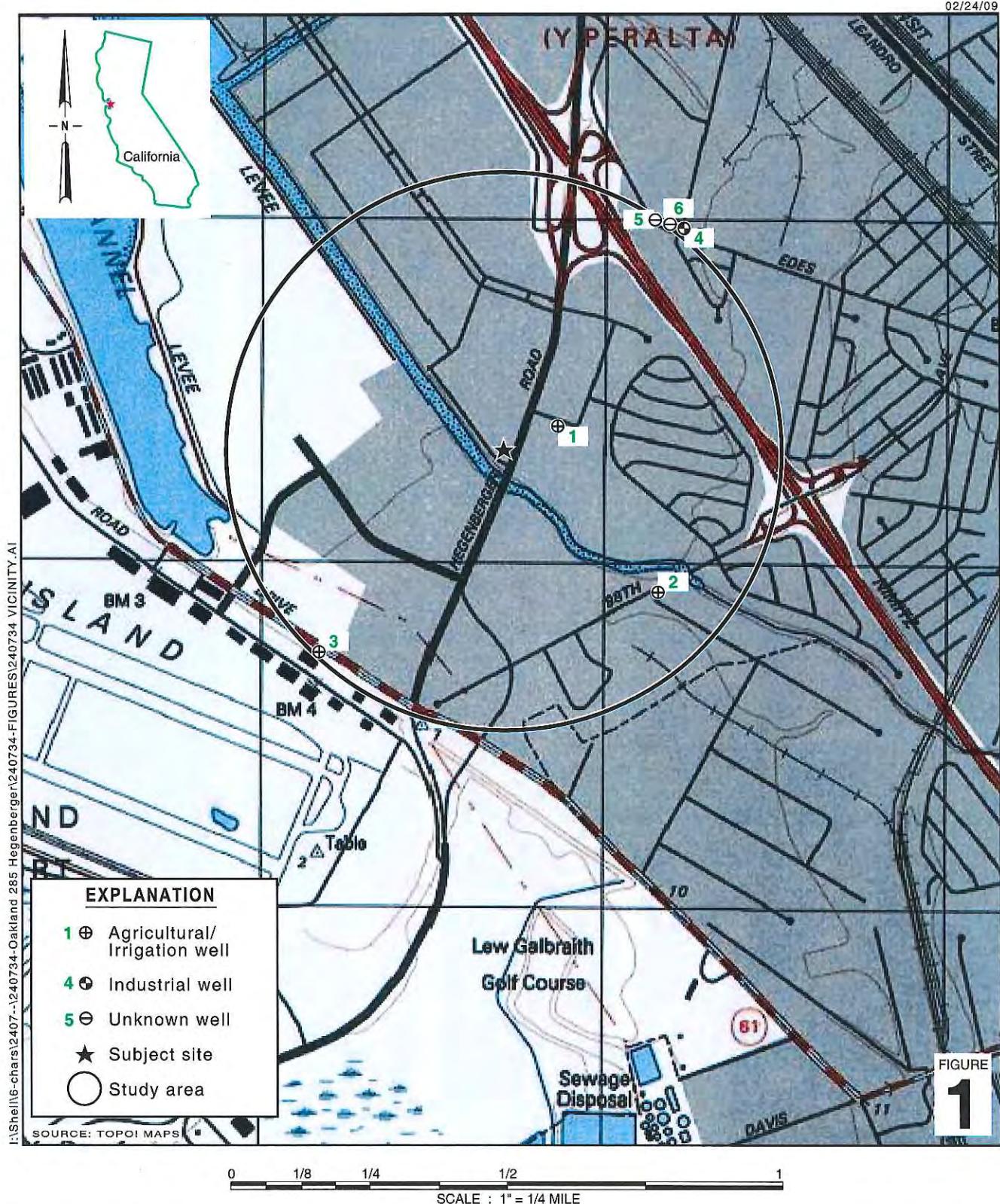
Cherie McCaulou

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Wednesday, October 10, 2012 6:44 PM
To: McCaulou, Cherie@Waterboards
Subject: Pending closure for case RO220 285 Hegenberger Road, Oakland

Hi Cherie,

This email provides notification of pending closure for ACEH case RO220, 285 Hegenberger Road, Oakland.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org



0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Shell-branded Service Station

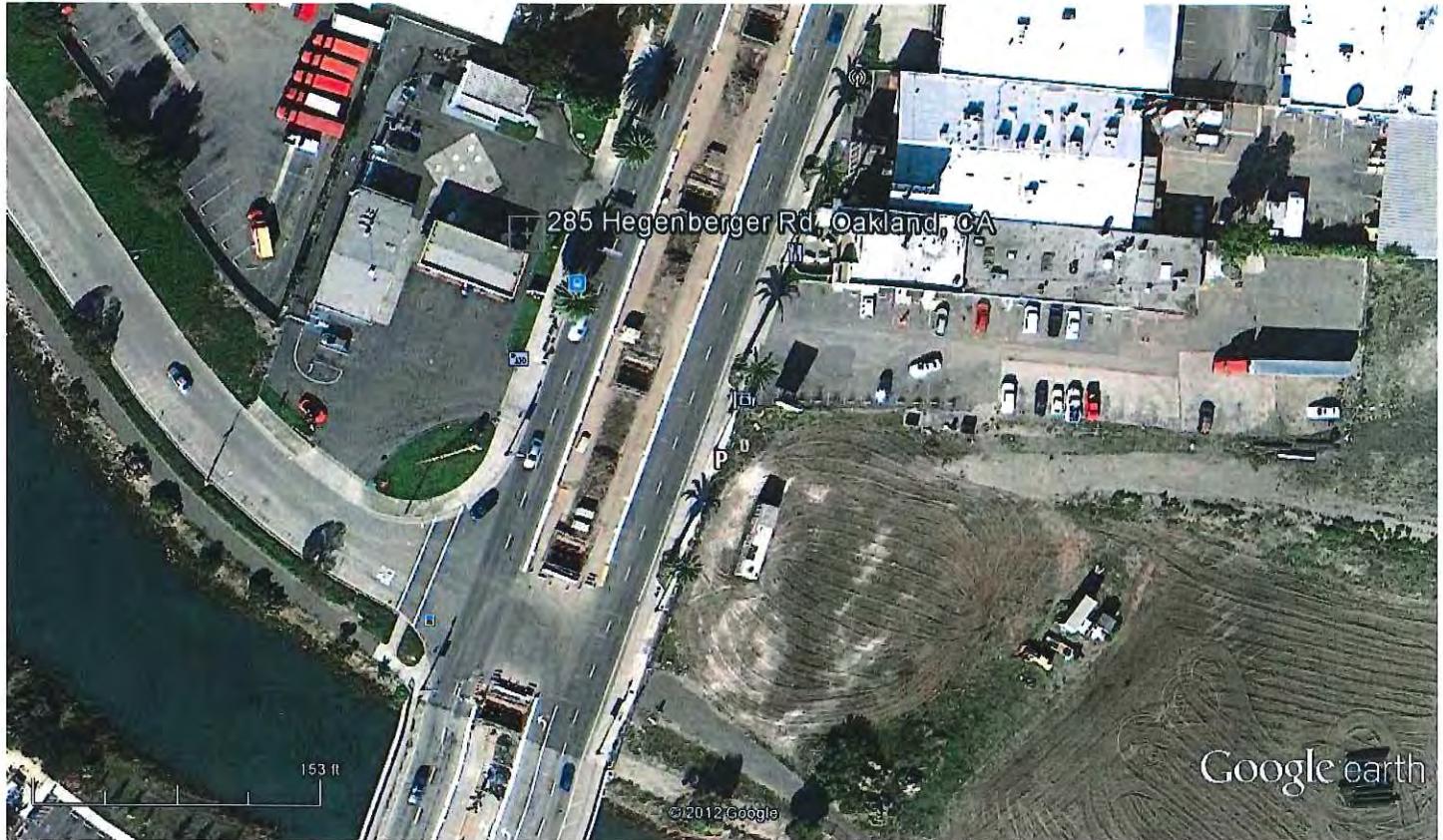
285 Hegenberger Road
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

ATTACHMENT 1



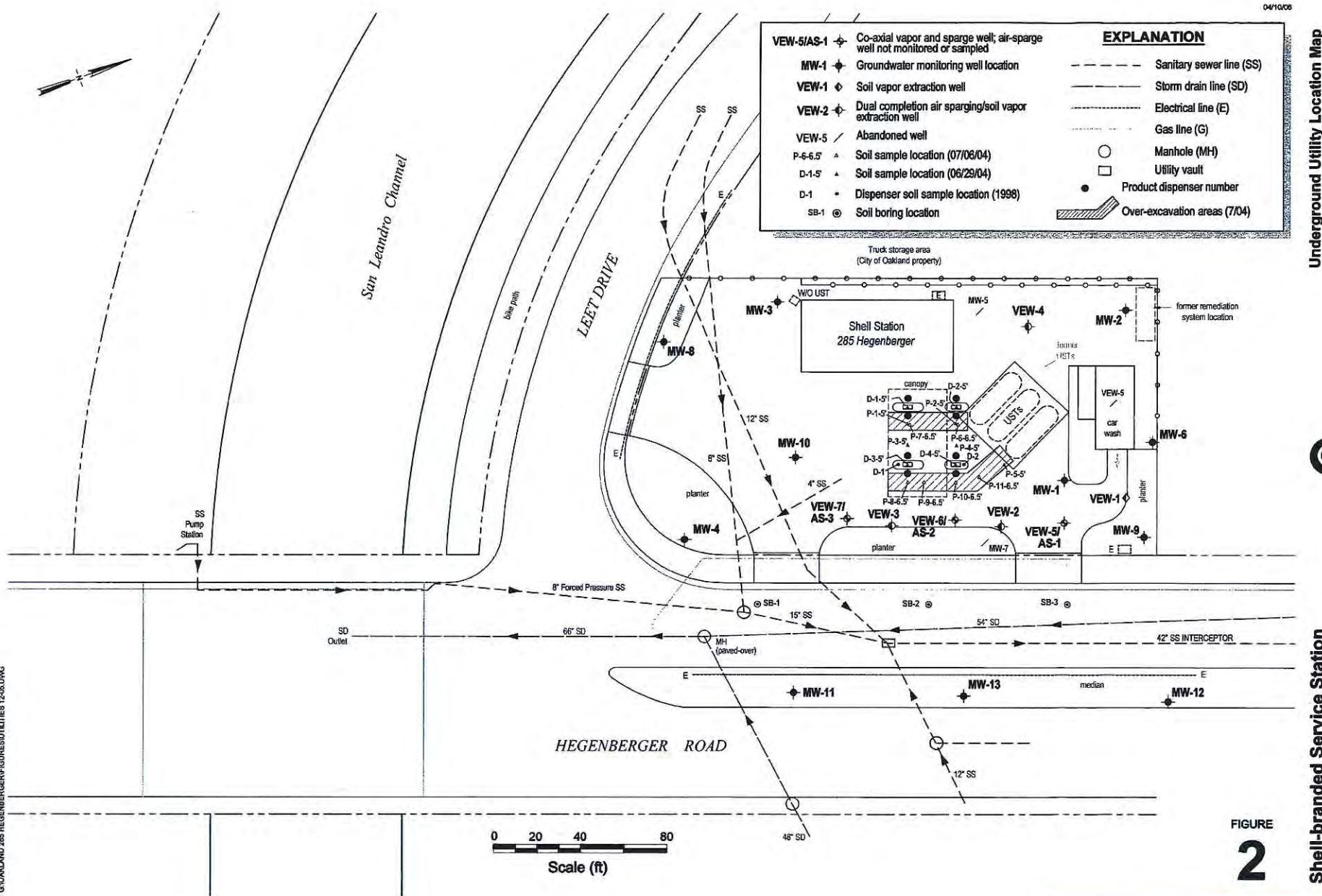
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feet
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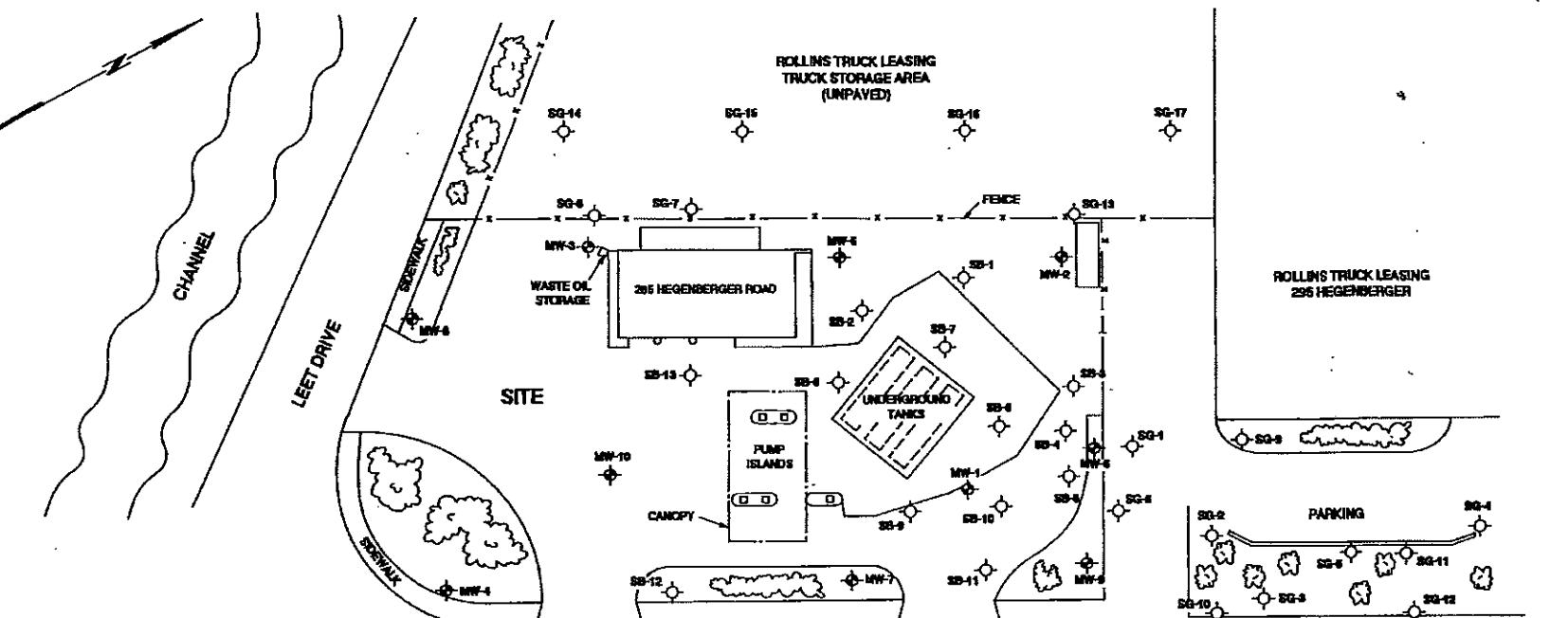
400

100





ATTACHMENT 2



HEGENBERGER ROAD

MEDIAN STRIP

SIDEWALK

LEGEND

- SOIL BORING (locations approximate)
- OFF SITE SOIL BORING (locations approximate)
- GROUNDWATER MONITORING WELL

0 40 80
APPROXIMATE SCALE IN FEET

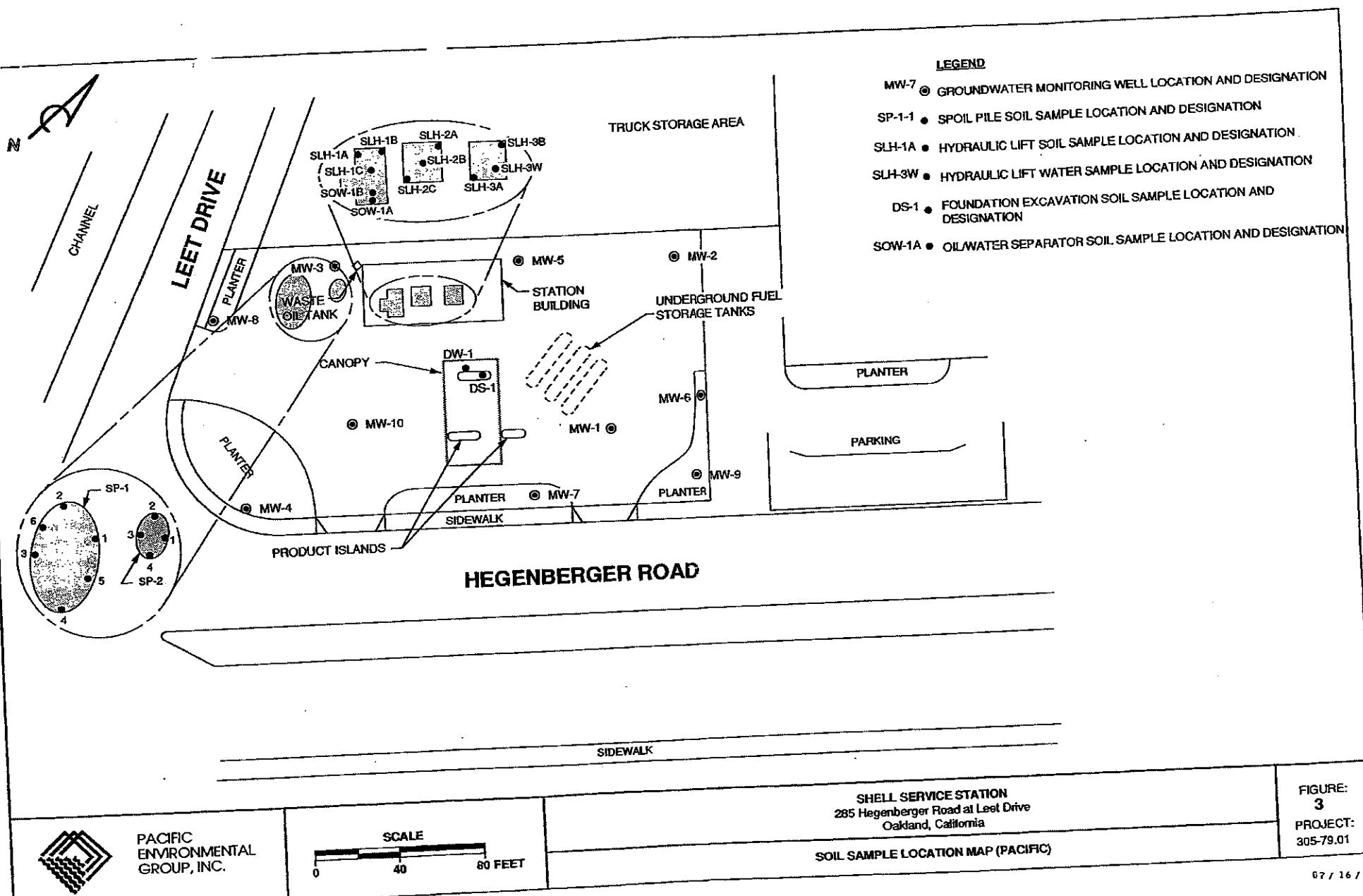
PLOT PLAN

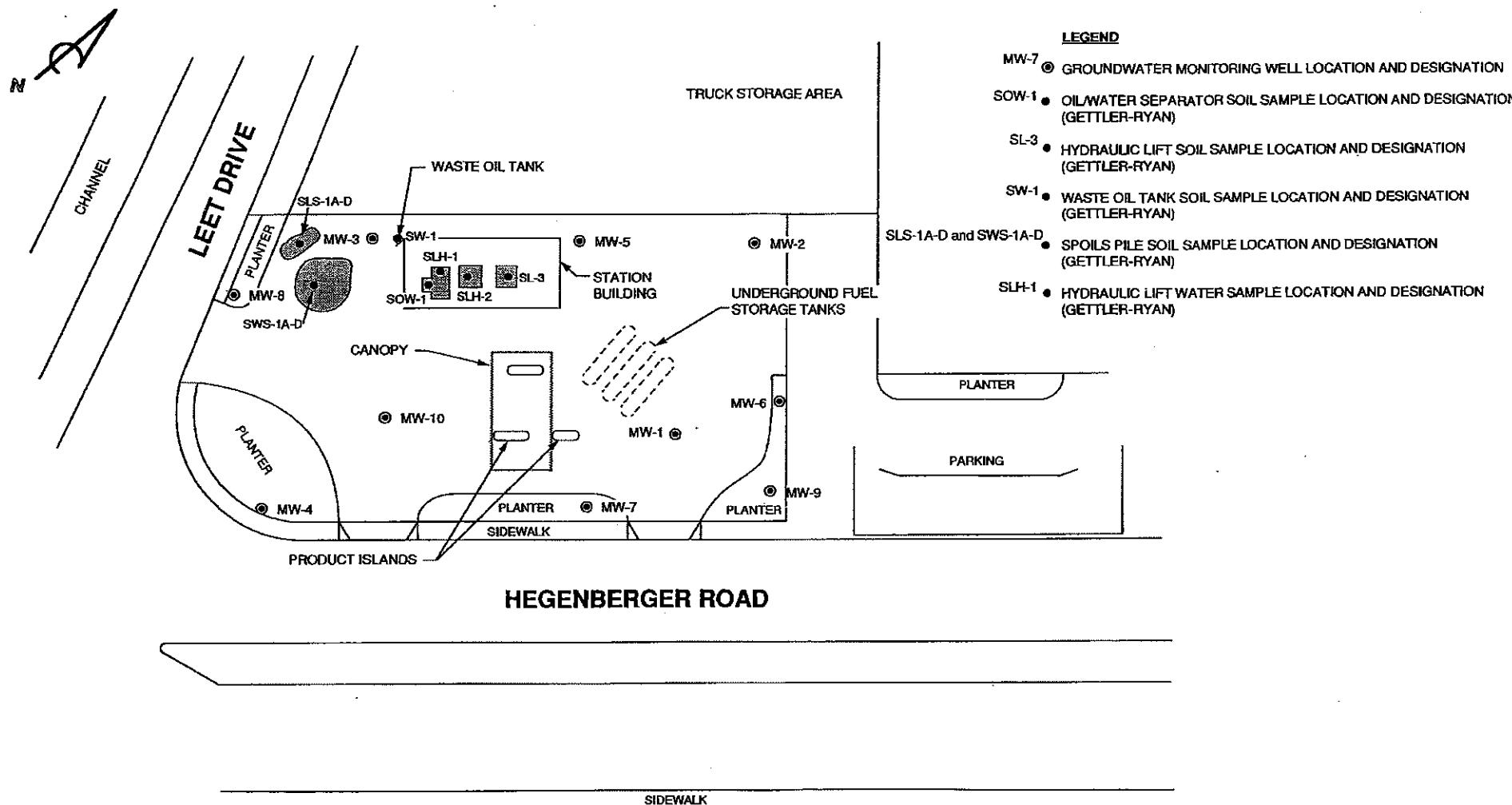
SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Date	AS SHOWN	Project No.
Prepared by	DEN	88-44-358-20
Checked by		Date 9/24/90
Approved by	CRC	Drawing No. 2



Converse Environmental West





PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
0 40 80 FEET

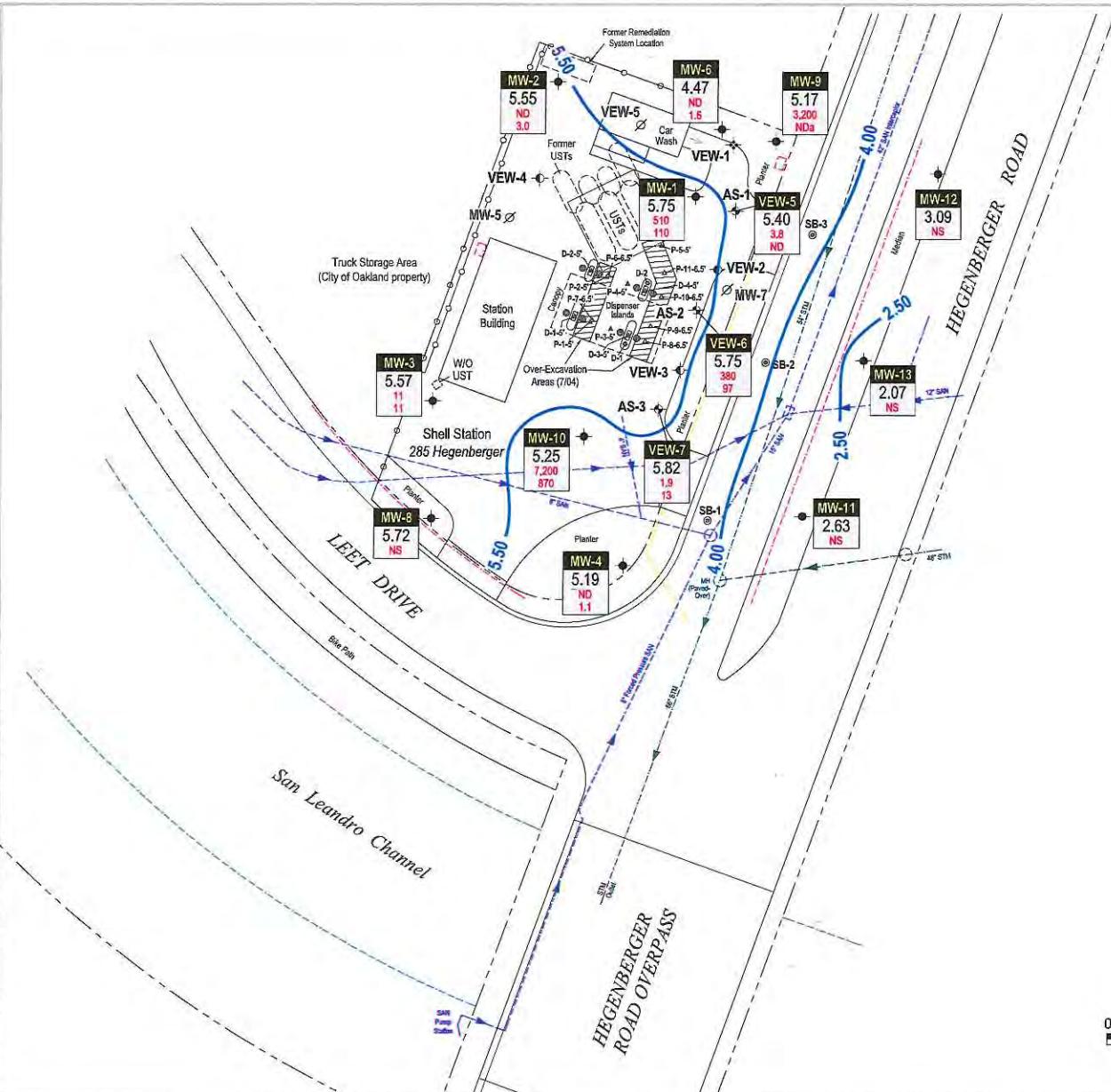
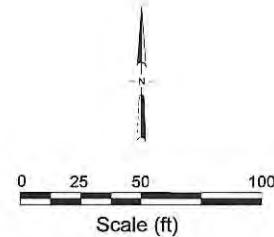
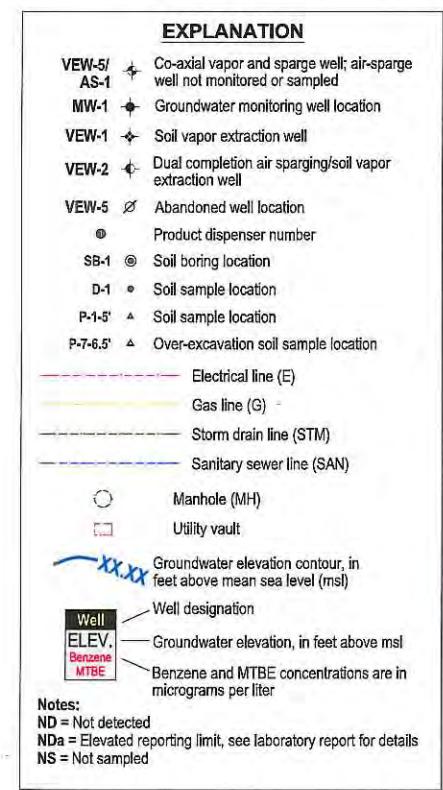
SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

SOIL SAMPLE LOCATION MAP (GETTLER-RYAN)

FIGURE:
2
PROJECT:
305-79.01

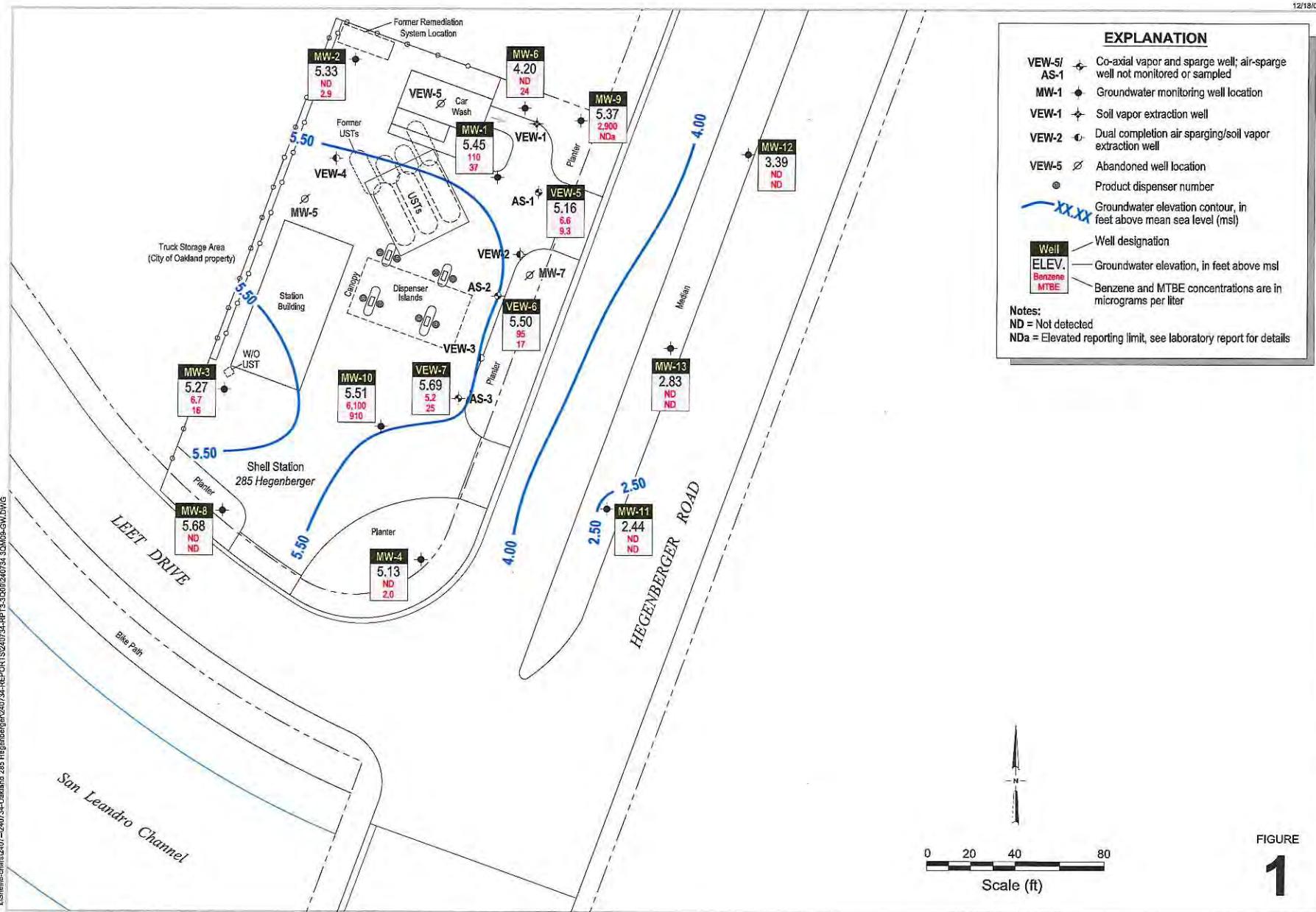
FIGURE
2

Shell-branded Service Station
285 Hegenberger Road
Oakland, California



Groundwater Contour and Chemical Concentration Map

July 1, 2009



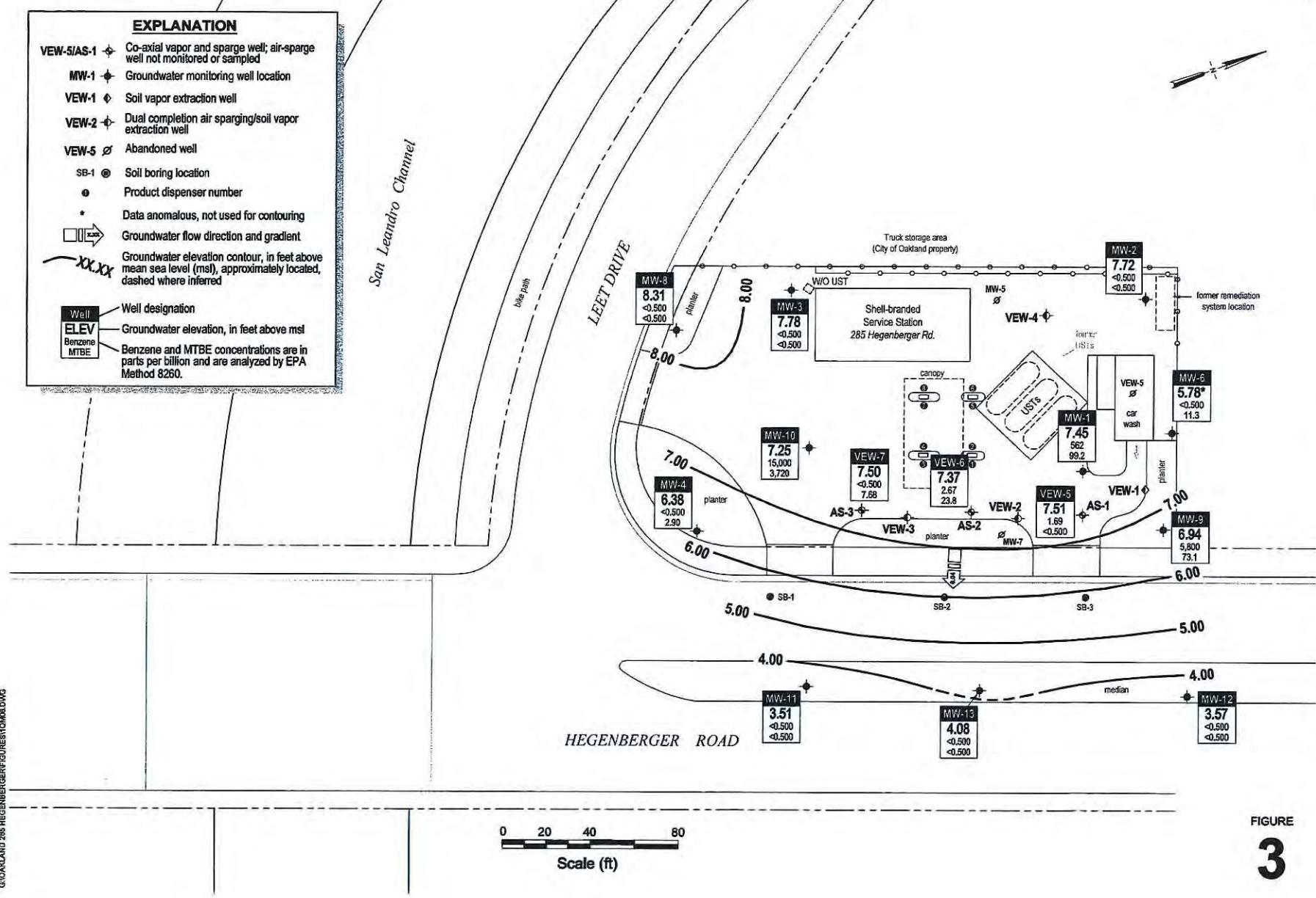
Shell-branded Service Station
285 Hegenberger Road
Oakland, California



CONESTOGA ROVERS & ASSOCIATES

**Groundwater Elevation
Contour Map**

January 4, 2006

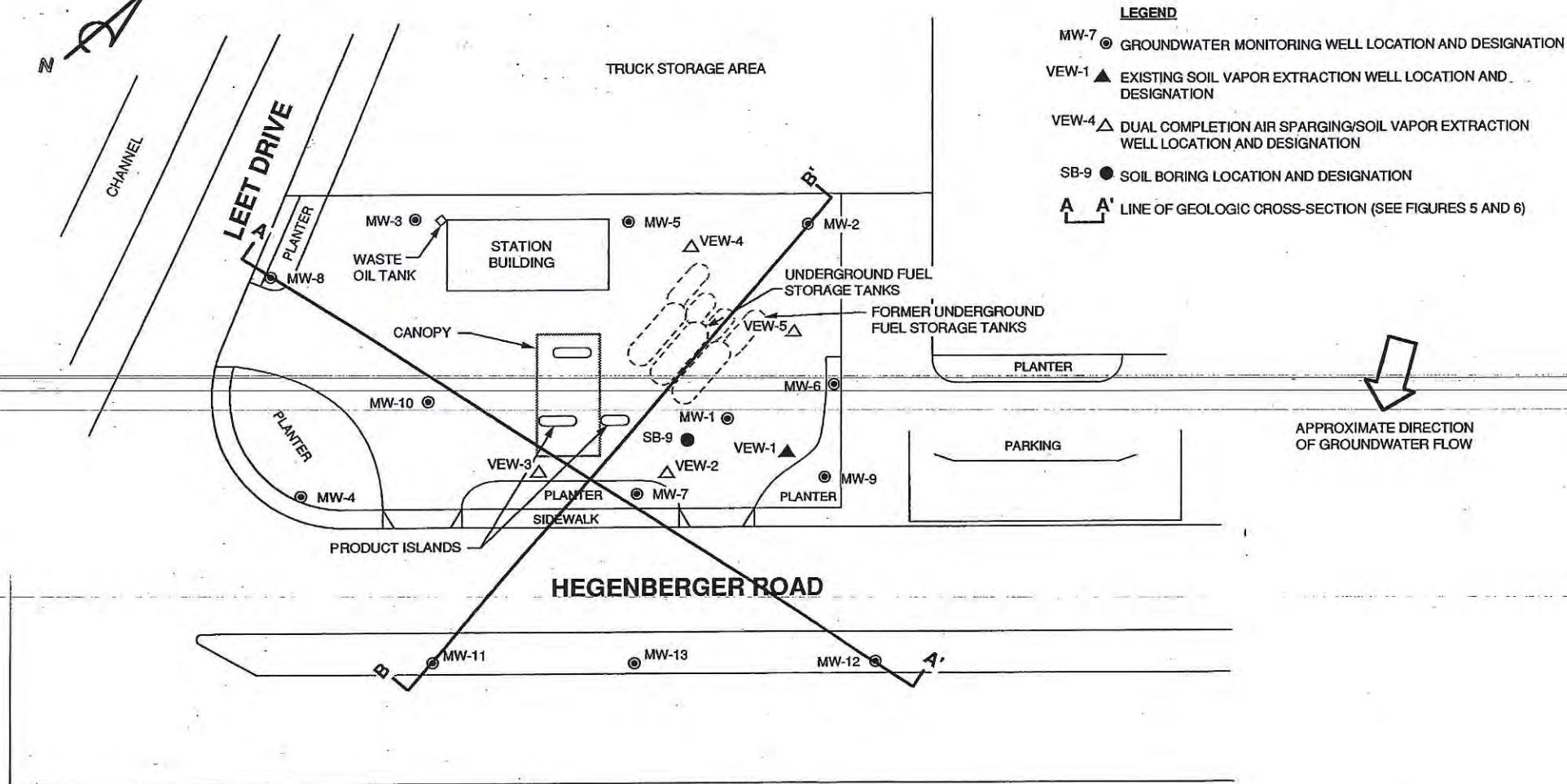


N

LEET DRIVE

CHANNEL

TRUCK STORAGE AREA



PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
0 40 80 FEET

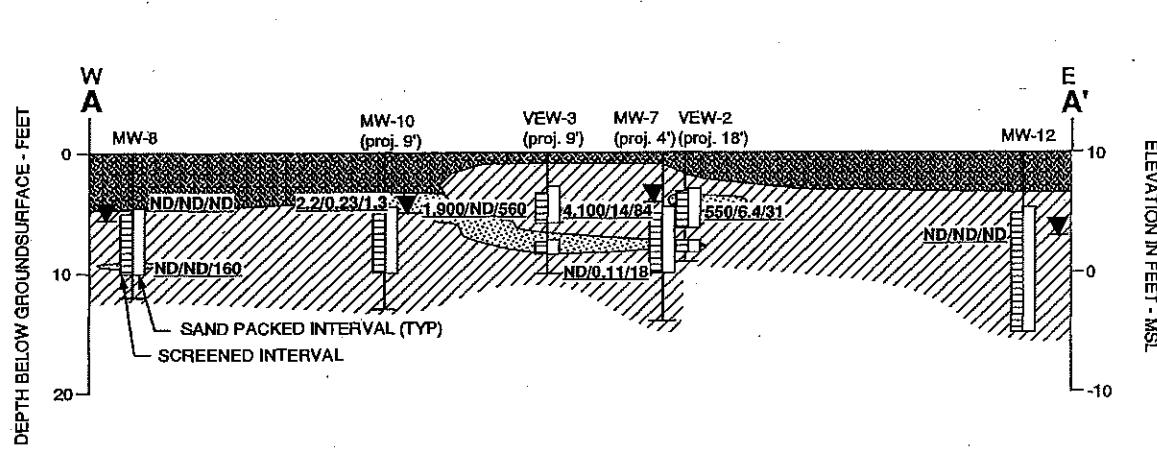
SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

SITE MAP

FIGURE:
2
PROJECT:
305-79.01

12/03/93

ATTACHMENT 3

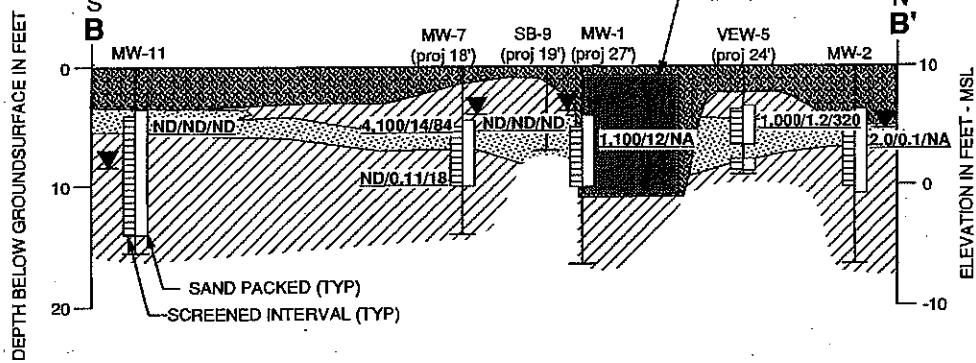


PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 10'

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California
GEOLOGIC CROSS-SECTION A-A'

FIGURE:
3
PROJECT:
305-79.01



LEGEND

- [Solid black box] ARTIFICIAL FILL
- [Hatched box] PRIMARILY FINE GRAINED DEPOSITS - SILTS AND CLAYS
- [Dotted box] PRIMARILY COARSE GRAINED DEPOSITS - SANDS AND GRAVELS
- MW-2 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- SB-9 SOIL BORING LOCATION AND DESIGNATION
- VEW-5 DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- proj PROJECTED ONTO LINE OF SECTION IN FEET
- ▼ STATIC WATER LEVEL, 7-20-93
- 2.0/0.1/NA TPH-g/BENZENE/TPH-d CONCENTRATION IN SOIL, IN PARTS PER MILLION, 7-13-89 to 6-10-93
- ND NOT DETECTED
- NA NOT ANALYZED

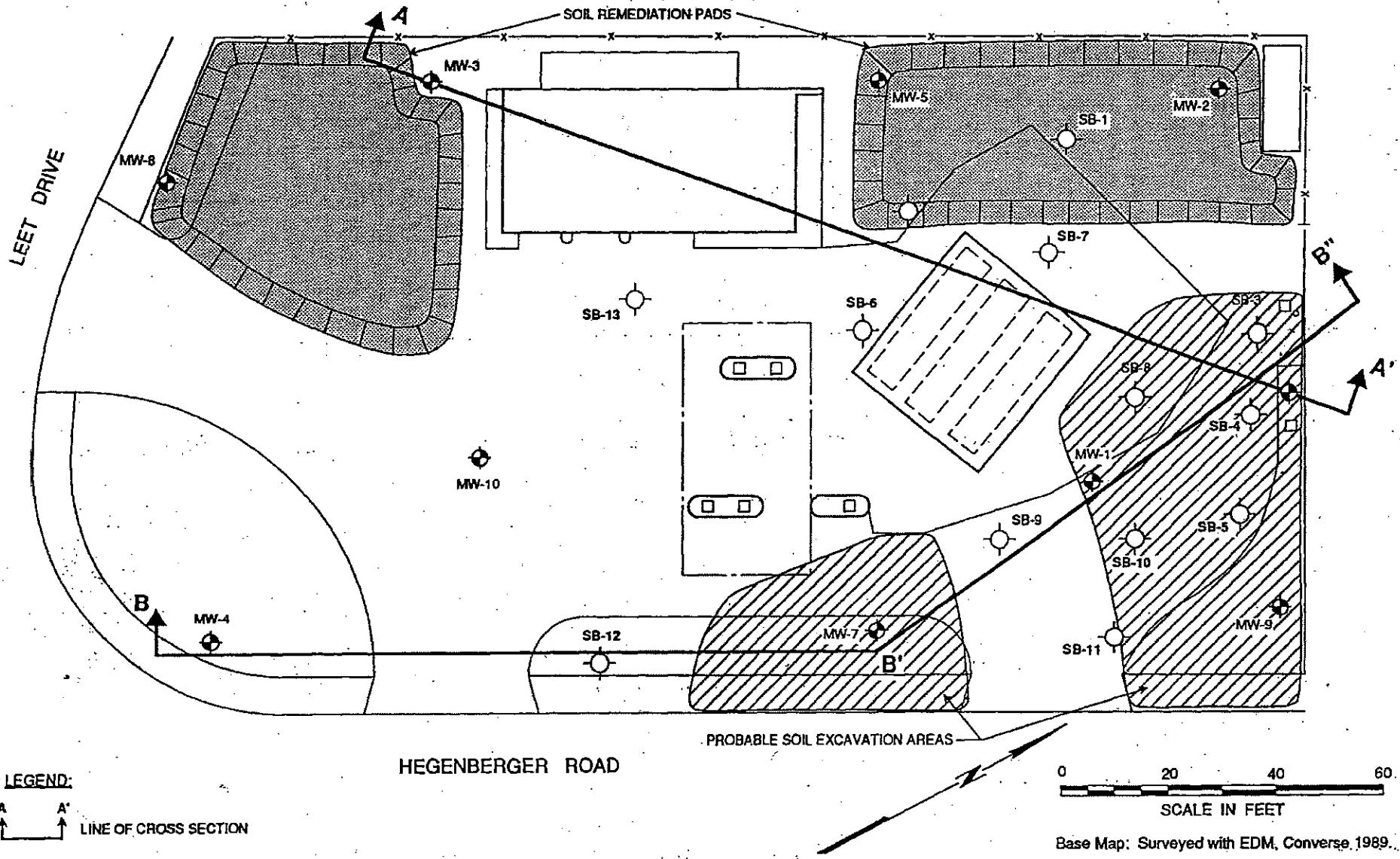


PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 10'

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California
GEOLOGIC CROSS-SECTION B-B'

FIGURE:
4
PROJECT:
305-79.01



PROPOSED SOIL EXCAVATION

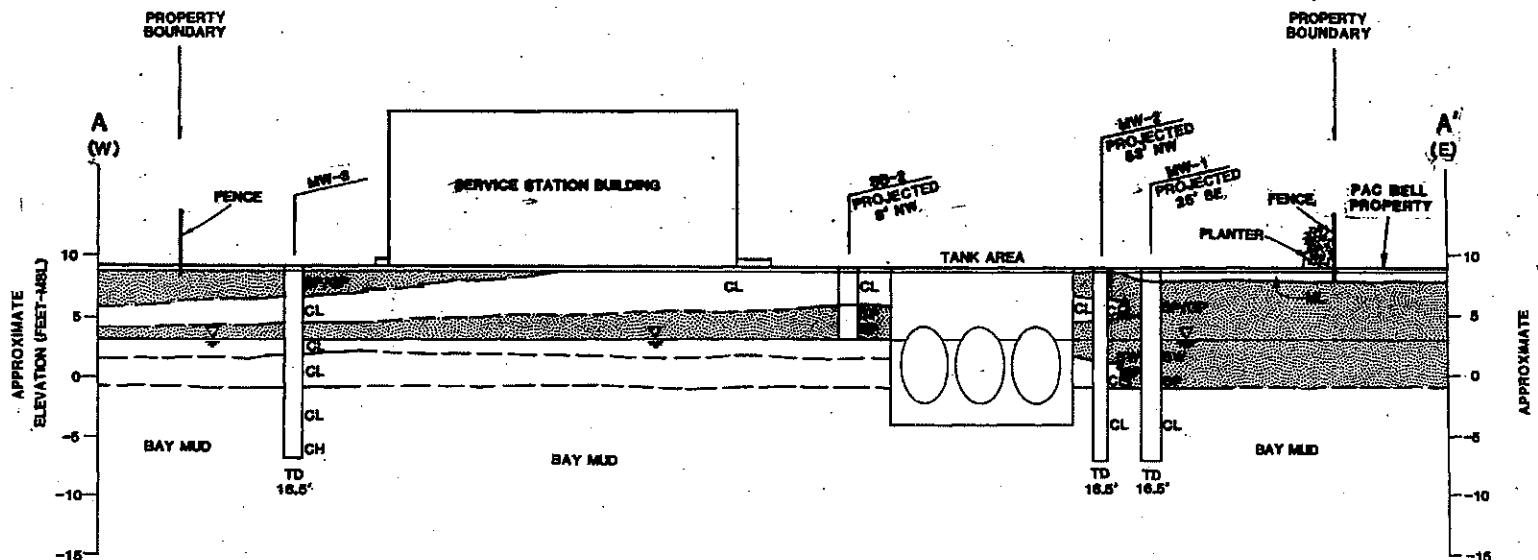
SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	AS SHOWN	Project No.
Prepared by	LQL	88-44-359-01
Checked by	RMB	Date
Approved by	DWC	Drawing No.

12



Converse Environmental West



LEGEND

- RELATIVELY IMPERMEABLE SEDIMENTS
- RELATIVELY PERMEABLE SEDIMENTS

CROSS SECTION A - A'

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

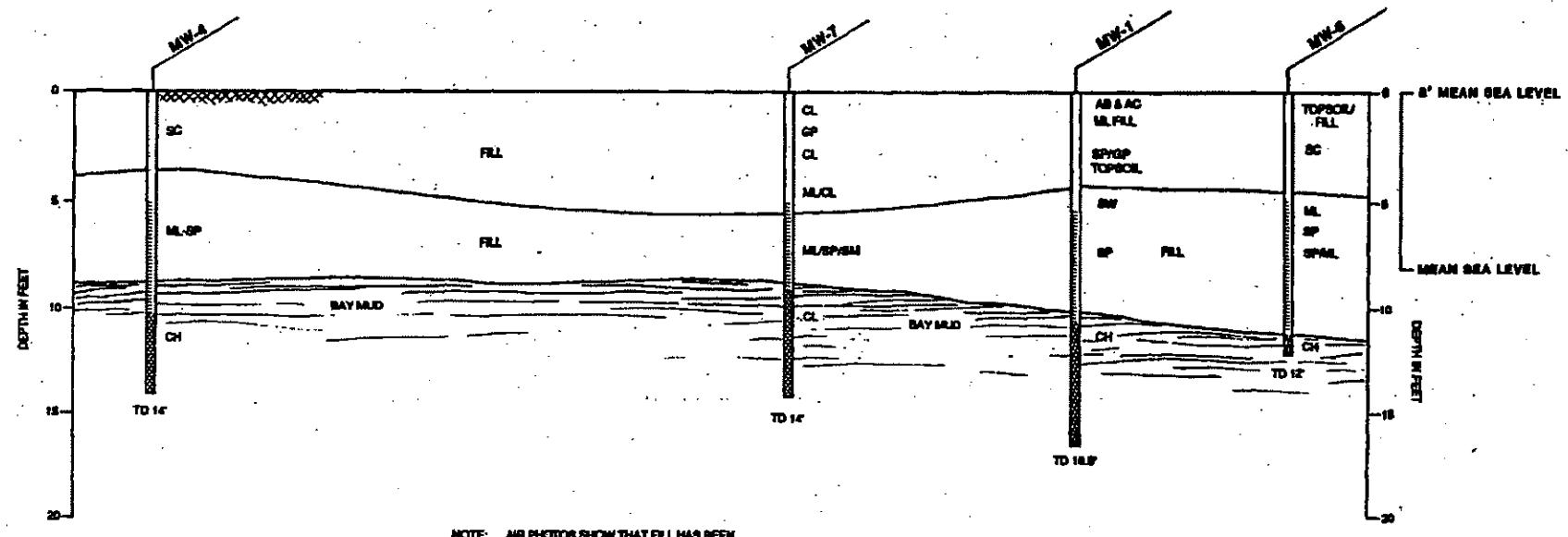
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Date	3/22/89	88-44-359-01
Prepared By	KGC	Drawing No.
Checked By	REH	
Approved By		



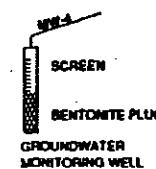
Converse Environmental Consultants California

B
SOUTH

B'
NORTH



LEGEND



CROSS SECTION B-B'

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale AS SHOWN
Date 6/23/90 Drawing No. B-44-288-01
Prepared By KGC/CRC
Checked By PMS
Approved By DMC
14



Converse Environmental Consultants California

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
1992 Waste Oil Tank Removal											
SOW-1	2/12/1992	5	1,900	400	830	--	2.2	2.6	25	82	--
SL-3	2/12/1992	6.5	--	1,100	15,000	--	--	--	--	--	--
SLH-1A	4/21/1992	5.5	690	550	550	--	<2.5	<2.5	2.4	19	--
SLH-1B	4/21/1992	5.5	1,500	1,700	1,700	--	<2.5	<2.5	<2.5	32	--
SLH-1C	4/21/1992	5.5	1,000	2,200	5,800	--	<2.5	<2.5	1.6	23	--
SLH-2A	4/21/1992	5.5	610	250	340	--	<2.5	<2.5	<2.5	3.7	--
SLH-2B	4/21/1992	6	70	80	170	--	<2.5	0.16	0.38	1.6	--
SLH-2C	4/21/1992	6	1,300	150	290	--	<2.5	<2.5	6.7	20	--
SLH-3A	4/21/1992	6.5	54	130	280	--	0.05	0.14	0.44	3.6	--
SLH-3B	4/21/1992	6.5	250	140	90	--	<2.5	<2.5	1.5	3.1	--
SOW-1A	4/21/1992	4	19	250	500	--	0.055	<2.5	0.14	0.7	--
SOW-1B	4/21/1992	4	1,800	7,600	6,800	--	1.9	<2.5	15	72	--
DS-1	5/20/1992	1	260	--	--	--	<2.5	<2.5	<2.5	<2.5	--
1998 Dispenser Upgrades											
D-1	7/30/1998	1.5	790	400	--	--	2.0	17	12	57	8.5 (22)
D-2	7/30/1998	2	160	190	--	--	0.090	0.27	0.14	1.7	4.7
1999 Site Investigation											
SB-1-5.5	3/18/1999	5.5	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-1-10	3/18/1999	10	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-5.0	3/18/1999	5	0.777	15.2	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-6.0	3/18/1999	6	3.33	19.3	--	--	<0.00200	0.00598	0.00977	0.0259	<0.0100
SB-2-7.5	3/18/1999	7.5	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-10.0	3/18/1999	10	<0.400	<15.0	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-10.5	3/18/1999	10.5	<0.400	<15.0	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-12.0	3/18/1999	12	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-3-7.5	3/18/1999	7.5	5.94	14.8	--	--	<0.00200	<0.00200	0.0501	0.0548	<0.0100
SB-3-9.0	3/18/1999	9	27.6	13.1	--	--	<0.0100	<0.0100	0.0502	0.0948	<0.0500
SB-3-10.5	3/18/1999	10.5	43.3	35.8	--	--	<0.0100	<0.0100	0.354	0.548	<0.0500
SB-3-11.5	3/18/1999	11.5	9.90	27.6	--	--	<0.0100	<0.0100	0.0628	0.0973	<0.0500
SB-3-15.0	3/18/1999	15	23.5	26.5	--	--	<0.0100	<0.0100	0.291	0.424	<0.0500
SB-3-17.0	3/18/1999	17	0.508	<5.00	--	--	<0.00200	<0.00200	0.0269	0.0393	<0.0100

ATTACHMENT 4

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
2000 Site Investigation											
VE-5-5'	6/28/2000	5.5	578	--	--	--	9.76	28.8	11.8	63.1	0.359
VE-5-10.5'	6/28/2000	10.5	1.18	--	--	--	0.0205	0.0449	0.0181	0.099	<0.0500
VE-5-14.0'	6/28/2000	14	<1.00	--	--	--	0.00500	0.0122	<0.00500	0.0220	<0.0500
VE-6-5.5'	6/28/2000	5.5	1,290	--	--	--	13.2	44.9	28.5	123	2.93
VE-6-10.5'	6/28/2000	10.5	25	--	--	--	0.364	0.700	0.610	2.87	0.154
VE-6-14.0'	6/28/2000	14	<1.00	--	--	--	<0.00500	0.00830	0.00730	0.0360	<0.0500
VE-7-6.5'	6/28/2000	6.5	1,800	--	--	--	11.6	60.8	34.6000	173	2.61
VE-7-10.5'	6/28/2000	10.5	1,260	--	--	--	5.68	32.5	24.5	124	0.73
VE-7-14.0'	6/28/2000	14	<1.00	--	--	--	<0.00500	0.132	<0.00500	0.00680	<0.0500
2004 Fuel System Upgrades ¹											
P-1-5'	6/29/2004	5	7,200	1,800	--	<50	<5.0	9.6	61	540	<5.0
P-2-5'	6/29/2004	5	390	810	--	<250	<0.50	<0.50	3.3	27	<0.50
P-3-5'	6/29/2004	5	<50	7.4	--	<50	0.51	<0.50	1.5	1.4	3.3
P-4-5'	6/29/2004	5	120	32	--	<50	2.2	<0.50	8.2	1.5	40
P-5-5'	6/29/2004	5	1,600	140	--	<50	3.3	0.83	38	60	3.0
D-1-5'	6/29/2004	5	<1.0	8	--	<50	<0.0050	<0.0050	0.0052	0.020	0.031
D-2-5'	6/29/2004	5	<1.0	2.1	--	<50	<0.0050	0.0056	<0.0050	0.005	0.0052
D-3-5'	6/29/2004	5	130	24	--	<50	<0.50	<0.50	2.2	2	<0.50
D-4-5'	6/29/2004	5	850	190	--	<50	<0.50	0.96	7.6	58	1.5
P-6-6.5'	7/6/2004	6.5	380	86	--	<50	3.6	14	7.2	38	4.4
P-7-6.5'	7/6/2004	6.5	490	17	--	<50	1.0	2.5	8.2	42	1.2
P-8-6.5'	7/6/2004	6.5	6,500	170	--	<100	<5.0	38	61	500	<5.0
P-9-6.5'	7/6/2004	6.5	380	37	--	<50	<1.0	1.6	4.7	26	21
P-10-6.5'	7/6/2004	6.5	120	16	--	<50	<1.0	<1.0	1.9	2.6	7.1
P-11-6.5'	7/6/2004	6.5	<100	12	--	<50	1.4	<1.0	2.9	1.7	3.3
P-12-6.5'	7/6/2004	6.5	1,100	38	--	<50	2.2	<1.0	23	30	2.8

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TOG = Total oil and grease

TPHmo = Total petroleum hydrocarbons as motor oil

MTBE = Methyl tertiary-butyl ether

fbg = Feet below grade

ppm = Parts per million, equivalent to mg/L

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
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mg/L = Milligrams per liter

-- = Not analyzed

<x = Not detected at laboratory reporting limit x

TPHg analyzed by EPA Method 5030 in 1992, EPA Method 8015M in 1998 and 1999, DHS LUFT in 2000, and EPA Method 8260B in 2004.

TPHd analyzed by EPA Method 3550 in 1992, EPA Method 8015M in 1998, 1999, and 2004.

TOG analyzed by EPA Method 5520D.

TPHmo analyzed by EPA Method 8015M.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8020 in 1992, 1998, and 1999, by DHS LUFT in 2000, and by EPA Method 8260B in 2004.

MTBE analyzed by EPA Method 8020 in 1998 and 1999, and by EPA Method 8260B in 2000 and 2004. 1998 results in parentheses analyzed by EPA Method 8260B.

1. Shading indicates that the data represents soil that has been removed from the site.

TABLE 3. RESULTS OF SOIL CHEMICAL ANALYSES

**Shell Oil Company Facility
285 Hegenberger Road
Oakland, California**

Boring No.	Sample Depth (ft bgs)	Date Sampled	Concentration (mg/kg)						
			TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	Lead ¹
SB-1	4.0	2/13/89	140	NA	0.3	0.8	1.4	0.6	14.7
SB-2	5.0	2/13/89	3700	NA	<8	120	110	530	9.17
SB-3	4.0	5/24/89	1300	180	0.54	8.4	18	24	0.2
SB-3	2.4 ^{**}	5/24/89	250	100	<0.25	1.1	1.9	3.2	<0.2
SB-4	2.4 ^{**}	5/24/89	1300	12	0.54	0.4	18	24	
SB-4	4.0	5/24/89	50	20	0.12	0.43	0.45	0.18	<0.2
SB-5	2.0	5/24/89	31000	370	4.7	18	66	150	<0.2
SB-8	6.5	7/13/89	1900	360	<0.025	<0.025	25	82	6.2
SB-9	5.0	7/13/89	<10	<10	<0.025	<0.025	<0.075	<0.075	3.9
SB-10	4.5	7/13/89	550	75	2.3	11	13	71	5.8
SB-11	5.0	7/13/89	190	440	3.8	16	5.7	28	17
SB-12	5.0	11/16/89	<1	1.4	<0.0025	<0.0028	<0.0025	<0.0025	4.8
SB-12	7.0	11/16/89	<1	1.4	0.0068	0.046	<0.0025	0.0098	4.6
SB-13	5.0	11/16/89	650	60	1.4	5.2	6.0	25	5.5
MW-1	5.5	2/14/89	1100	NA	12	36	27	120	12.7
MW-2	6.0	2/15/89	2.0	NA	0.1	<0.1	<0.1	<0.1	3.31
MW-3	5.0	2/14/89	3.0	NA	<0.1	<0.1	<0.1	<0.1	1.42
MW-4	5.0	4/28/89	<10	<10	<0.025	<0.025	0.056	<0.075	34
MW-4	10.0	4/28/89	<10	<10	<0.025	0.052	<0.075	<0.075	2.3
MW-5	5.0	4/27/89	<10	<10	<0.025	<0.025	<0.075	<0.075	5.3
MW-5	10.0	4/27/89	<10	<10	<0.025	0.037	<0.075	<0.075	4.3
MW-6	5.0	4/28/89	<10	<10	0.033	0.079	<0.075	<0.075	8.2
MW-6	10.0	4/28/89	<10	<10	<0.025	0.12	<0.075	<0.075	7.0
MW-7	5.0	4/28/89	4100	84	14	92	14	190	14
MW-7	10.0	4/27/89	<10	18	0.11	0.045	<0.075	<0.075	14

TABLE 3 (cont'd). RESULTS OF SOIL CHEMICAL ANALYSES

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Boring No.	Sample Depth (ft bgs)	Date Sampled	Concentration (mg/kg)						
			TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	Lead ¹
MW-8	5.0	4/28/89	<10	<10	<0.025	0.089	<0.075	<0.075	3.4
MW-8	10.0	7/13/89	<10	160	<0.025	0.087	<0.075	<0.075	22
MW-9	5.0	7/13/89	120	<10	1.1	0.64	3.7	0.46	4.1
MW-10	5.0	11/16/89	2.2	1.3	0.23	0.22	0.21	0.61	3.6
SG-1	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	0.043	NA
SG-1	6.0		4.0	NA	0.140	0.018	0.076	0.037	NA
SG-2	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-2	5.5		4000	NA	22.0	110	100	510	NA
SG-3	3.0	8/06/90	<0.1	NA	<0.005	0.010	0.008	0.042	NA
SG-3	6.0		110	NA	0.640	<0.005	3.50	16.0	NA
SG-4	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-4	6.0		1.70	NA	<0.005	<0.005	<0.005	0.026	NA
SG-5	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-5	6.0		610	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-6	3.0	8/06/90	<0.1	NA	<0.005	0.009	<0.005	<0.005	NA
SG-6	6.0		2.90	NA	<0.005	0.006	0.023	0.064	NA
SG-7	6.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-7	6.0		1900	NA	<0.005	<0.005	<0.005	35.0	NA
SG-8	3.0	8/07/90	16.0	NA	0.220	0.073	0.320	0.084	NA
SG-8	5.5		51.0	NA	1.90	<0.005	3.20	9.30	NA
SG-9	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-9	6.0		<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-10	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-10	6.0		3000	NA	11.0	44.0	73.0	400	NA
SG-11	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-11	6.0		240	NA	<0.005	<0.005	1.40	2.60	NA
SG-12	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-12	6.0		960	NA	<0.005	<0.005	15.0	42.0	NA
SG-13	3	8/17/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-13	6		<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA

TABLE 3 (cont'd). RESULTS OF SOIL CHEMICAL ANALYSES

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Boring No.	Sample Depth (ft bgs)	Date Sampled	Concentration (mg/kg)						
			TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-mo
SG-14	3'	9/13/90	<1.0	<1.0	<0.0025	0.0063	<0.0025	<0.0025	<10
	6'		<1.0	<1.0	0.190	0.0250	0.0170	0.037	<10
SG-15	3'	9/13/90	<1.0	<1.0	<0.0025	0.0100	<0.0025	0.0026	<10
	6'		<1.0	<1.0	<0.0025	0.0270	<0.0025	0.0039	<10
SG-16	3'	9/13/90	<1.0	<1.0	<0.0025	0.0120	<0.0025	0.0029	<10
	6'		<1.0	<1.0	<0.0025	0.0260	<0.0025	0.0036	12
SG-17	3'	9/13/90	<1.0	<1.0	<0.0025	0.0110	<0.0025	<0.0025	<10
	6'			4.0	<0.0025	0.0073	<0.0025	<0.0025	<10

NOTES:

- 1 Analysis by EPA Method 7421
- .. Composite sample
- ft bgs Feet below ground surface
- MW Monitoring well
- ppm Part per million
- SB Soil boring
- TPH-g Total Petroleum Hydrocarbons as Gasoline (GCFID)
- TPH-d Total Petroleum Hydrocarbons as Diesel (GCFID)

Table 2
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, and TPH as Diesel)

Shell Service Station
 285 Hegenberger Road at Leet Drive
 Oakland, California

Well Number	Sample Depth (Feet)	TPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TPH as Diesel (ppm)
MW-11	5-5.5	ND	ND	0.008	ND	ND	ND
MW-12	5-5.5	ND	ND	ND	ND	ND	ND
MW-13	6-6.5	ND	ND	ND	ND	ND	ND
VEW-2	4.5-5	550	6.4	15	13	52	31a
VEW-3	4.5-5	1,900	ND	16	40	94	560a
VEW-4	4.5-5	ND	ND	ND	ND	ND	10a
VEW-5	4.5-5	1,000	1.2	0.9	21	14	320a

ppm = Parts per million
 ND = Not detected
 a. The laboratory noted that compound detected and calculated as TPH-d is due to a non-diesel mix.
 See individual certified analytical reports for detection limits.

MW-11 and MW-12 samples collected on 6-8-1993.

VEW-2, VEW-4, and VEW-5 samples collected on 6-9-1993.

MW-13 and VEW-3 samples collected on 6-10-1993.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Gettier Ryan
2150 W. Winton Avenue
Hayward, CA 94545
Attention: John Wertal / C. Galantin Lab Number:

Client Project ID: 7682.01 Shell, Oakland
Sample Descript: Soil
Analysis Method: EPA 8080
Lab Number: 204-0088

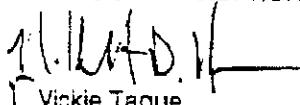
Sampled: Mar 30, 1992
Received: Apr 1, 1992
Extracted: Apr 2, 1992
Analyzed: Apr 6, 1992
Reported: Apr 8, 1992

POLYCHLORINATED BIPHENYLS (EPA 8080)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016.....	20	.....
PCB 1221.....	80	.....
PCB 1232.....	20	.....
PCB 1242.....	20	.....
PCB 1248.....	20	.....
PCB 1254.....	20	.....
PCB 1260.....	20	.....

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Vickie Tague

Project Manager

2040088.GET <1>



SEQUOIA ANALYTICAL

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Gettler Ryan	Client Project ID:	7682.01, Shell, Oakland	Sampled:	Mar 20, 1992
2150 W. Winton Avenue	Sample Descript:	Soil, SW-1	Received:	Mar 20, 1992
Hayward, CA 94545	Analysis Method:	EPA 8240	Analyzed:	Mar 25, 1992
Attention: Clyde Galantine	Lab Number:	203-3608	Reported:	Mar 27, 1992

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone.....	500	N.D.
Benzene.....	100	N.D.
Bromodichloromethane.....	100	N.D.
Bromoform.....	100	N.D.
Bromomethane.....	100	N.D.
2-Butanone.....	500	N.D.
Carbon disulfide.....	100	N.D.
Carbon tetrachloride.....	100	N.D.
Chlorobenzene.....	100	N.D.
Chloroethane.....	100	N.D.
2-Chloroethyl vinyl ether.....	500	N.D.
Chloroform.....	100	N.D.
Chloromethane.....	100	N.D.
Dibromochloromethane.....	100	N.D.
1,1-Dichloroethane.....	100	N.D.
1,2-Dichloroethane.....	100	N.D.
1,1-Dichloroethene.....	100	N.D.
cis-1,2-Dichloroethene.....	100	N.D.
trans-1,2-Dichloroethene.....	100	N.D.
1,2-Dichloropropane.....	100	N.D.
cis-1,3-Dichloropropene.....	100	N.D.
trans-1,3-Dichloropropene.....	100	N.D.
Ethylbenzene.....	100	N.D.
2-Hexanone.....	500	N.D.
Methylene chloride.....	250	N.D.
4-Methyl-2-pentanone.....	500	N.D.
Styrene.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	100	N.D.
Tetrachloroethene.....	100	N.D.
Toluene.....	100	N.D.
1,1,1-Trichloroethane.....	100	N.D.
1,1,2-Trichloroethane.....	100	N.D.
Trichloroethene.....	100	N.D.
Trichlorofluoromethane.....	100	N.D.
Vinyl acetate.....	100	N.D.
Vinyl chloride.....	100	N.D.
Total Xylenes	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

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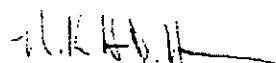
Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545 Attention: Clyde Galantine	Client Project ID: 7682.01, Shell, Oakland Sample Descript: Soil, SW-1 Lab Number: 203-3608	Sampled: Mar 20, 1992 Received: Mar 20, 1992 Extracted: Mar 24, 1992 Analyzed: Mar 24, 1992 Reported: Mar 27, 1992
--	---	--

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	23
Lead.....	0.25	1.4
Nickel.....	2.5	29
Zinc.....	0.50	30

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



Vickie Tague
Project Manager

TABLE 1

Page 1 of 25

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE		TOC	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020	8260	TBA	DIPE	ETBE	TAME			
MW-1	02/16/1989	—	—	99,000	20,000	23,000	5,700	2,300	—	—	—	—	—	—	6.64	3.83	2.81
MW-1	05/23/1989	—	11,000	48,000	4,200	5,200	1,200	7,700	—	—	—	—	—	—	6.64	3.59	3.05
MW-1	08/03/1989	—	11,000	63,000	5,500	5,500	3,200	9,500	—	—	—	—	—	—	6.64	4.04	2.60
MW-1	12/15/1989	—	11,000	30,000	ND	ND	ND	ND	—	—	—	—	—	—	6.64	4.22	2.42
MW-1	02/07/1990	—	10,000	93,000	13,000	9,600	2,400	14,000	—	—	—	—	—	—	6.64	4.60	2.04
MW-1	04/18/1990	—	8,700	55,000	14,000	8,400	3,200	13,000	—	—	—	—	—	—	6.64	4.02	2.62
MW-1	07/23/1990	—	3,600	73,000	16,000	7,400	2,800	15,000	—	—	—	—	—	—	6.64	4.17	2.47
MW-1	09/27/1990	—	1,700	45,000	8,000	4,300	2,000	11,000	—	—	—	—	—	—	6.64	4.60	2.04
MW-1	01/03/1991	—	3,100	43,000	10,000	3,400	1,900	11,000	—	—	—	—	—	—	6.64	4.88	1.76
MW-1	04/10/1991	—	1,800	67,000	20,000	9,600	3,500	16,000	—	—	—	—	—	—	6.64	3.55	3.09
MW-1	07/12/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	6.64	3.97	2.67
MW-1	10/08/1991	—	7,400	55,000	18,000	3,500	2,300	8,600	—	—	—	—	—	—	6.64	4.26	2.38
MW-1	02/06/1992	—	15,000 a	48,000	12,000	2,800	1,900	7,400	—	—	—	—	—	—	6.64	4.94	1.70
MW-1	05/04/1992	—	10,000 a	71,000	16,000	6,000	3,100	14,000	—	—	—	—	—	—	6.64	3.58	3.06
MW-1	07/28/1992	—	18,000 a	68,000	21,000	5,500	3,400	15,000	—	—	—	—	—	—	6.64	3.91	2.73
MW-1 (D)	07/28/1992	—	19,000 a	70,000	17,000	5,000	2,700	13,000	—	—	—	—	—	—	6.64	3.91	2.73
MW-1	10/27/1992	—	1,300	53,000	18,000	3,700	3,400	11,000	—	—	—	—	—	—	6.64	4.79	1.85
MW-1 (D)	10/27/1992	—	2,500 a	48,000	17,000	3,600	3,100	9,900	—	—	—	—	—	—	6.64	4.79	1.85
MW-1	01/14/1993	—	2,200 a	84,000	17,000	5,400	3,000	13,000	—	—	—	—	—	—	6.64	3.39	3.25
MW-1	04/23/1993	—	2,300 a	100,000	18,000	7,800	4,700	20,000	—	—	—	—	—	—	6.64	2.67	3.97
MW-1	07/20/1993	—	3,100 a	41 a	12,000	870	1,500	4,400	—	—	—	—	—	—	9.50	3.48	6.02
MW-1	10/18/1993	—	8,100 a	33,000	14,000	1,200	2,000	4,900	—	—	—	—	—	—	9.50	4.20	5.30
MW-1 (D)	10/18/1993	—	3,700 a	44,000	14,000	1,200	2,000	4,900	—	—	—	—	—	—	9.50	4.20	5.30
MW-1	01/06/1994	—	9,000 a	71,000	9,000	870	1,600	5,100	—	—	—	—	—	—	9.50	4.13	5.37
MW-1	04/12/1994	—	5,900	42,000	6,600	170	2,300	4,700	—	—	—	—	—	—	9.50	2.42	7.08
MW-1 (D)	04/12/1994	—	4,700	40,000	6,300	180	2,000	4,400	—	—	—	—	—	—	9.50	2.42	7.08
MW-1	07/25/1994	—	7,000 a	13,000	4,400	110	460	1,400	—	—	—	—	—	—	9.50	3.37	6.13
MW-1	10/25/1994	—	3,900	19,000	5,500	210	880	2,000	—	—	—	—	—	—	9.50	4.07	5.43
MW-1	01/09/1995	—	8,600 a	37,000	6,700	800	2,800	8,900	—	—	—	—	—	—	9.50	2.65	6.85
MW-1	04/11/1995	—	5,500	26,000	4,700	270	1,800	3,400	—	—	—	—	—	—	9.50	2.38	7.12
MW-1	07/18/1995	—	7,000	57,000	7,500	880	4,100	11,000	—	—	—	—	—	—	9.50	3.49	6.01
MW-1 (D)	07/19/1995	—	6,600	46,000	6,000	670	3,200	7,500	—	—	—	—	—	—	9.50	3.49	6.01
MW-1	10/18/1995	—	3,200 b	37,000 b	5,400 b	450 b	2,600 b	7,400 b	10,000 b	—	—	—	—	—	9.50	—	—
MW-1	01/09/1996	—	—	32,000	3,000	240	1,900	3,500	6,100	—	—	—	—	—	9.50	2.95	6.55
MW-1	04/02/1996	—	—	30,000	3,100	260	2.0	3,900	8.0	—	—	—	—	—	9.50	2.00	7.50
MW-1	10/03/1996	—	2,800	18,000	3,000	120	1,200	1,700	7,500	—	—	—	—	—	9.50	3.21	6.29
MW-1	04/03/1997	—	3,000	29,000	2,300	170	2,300	2,900	4,300	—	—	—	—	—	9.50	2.84	6.66
MW-1	10/08/1997	—	3,600	22,000	920	71	2,400	2,200	820	—	—	—	—	—	9.50	2.58	6.92
MW-1	06/10/1998	—	2,900	13,000	860	<100	1,300	500	29,000	32,000	—	—	—	—	9.50	2.67	6.83
															0.5/0.5		

TABLE 1

Page 2 of 25

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE		TAME		TOC	Depth to Water	GW Elevation	DO Reading	
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	8020	8260	TBA	DIPE	ETBE	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-1 (D)	06/10/1998	--	2,100	9,400	870	<50	1,300	520	28,000	--	--	--	--	--	--	9.50	2.67	6.83	0.5/0.5
MW-1	12/30/1998	--	1,540	6,930	714	52.7	243	<25.0	9,000	--	--	--	--	--	--	9.50	4.68	4.82	1.6/1.4
MW-1	06/25/1999	r	r	12,600	1,110	44.7	1,340	710	6,080	--	--	--	--	--	--	9.50	2.86	6.64	1.2/2.1
MW-1	12/28/1999	--	1,170	3,260	527	14.0	50.7	40.3	5,430	7,060 b	--	--	--	--	--	9.50	3.23	6.27	1.4/1.8
MW-1	05/31/2000	--	2,050	6,820	1,620	<50.0	116	<50.0	6,070	4,710	--	--	--	--	--	9.50	2.39	7.11	0.98/2.27
MW-1	10/17/2000	--	995 a	2,530	388	<10.0	16.4	22.1	917	--	--	--	--	--	--	9.50	2.05	7.45	4.0/3.1
MW-1	05/01/2001	--	1,510	12,300	1,480	19.5	205	111	4,160	--	--	--	--	--	--	9.50	3.55	5.95	1.6/1.3
MW-1	11/05/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.85 e	4.43	5.42	0.4
MW-1	11/07/2001	--	<1,000	3,000	290	6.0	11	15	--	870	--	--	--	--	--	9.85	4.00	5.85	2.1/1.4
MW-1	05/01/2002	--	<2,000	11,000	2,100	29	180	68	--	1,500	--	--	--	--	--	9.85	3.14	6.71	3.4/2.3
MW-1	07/16/2002	--	<1,500	7,400	1,200	22	37	24	--	1,900	--	--	--	--	--	9.85	3.69	6.16	0.9/0.8
MW-1	10/17/2002	--	<2,000	4,600	810	16	68	31	--	1,600	--	--	--	--	--	9.44	4.76	4.68	0.8/1.2
MW-1	01/21/2003	--	<7,000	11,000	1,100	28	210	53	--	1,100	--	--	--	--	--	9.44	3.50	5.94	0.3/0.7
MW-1	05/01/2003	--	4,900 a	13,000	1,500	33	260	68	--	1,700	--	--	--	--	--	9.44	3.04	6.40	--
MW-1	07/17/2003	--	3,200 a,f	10,000	2,400	<50	250	<100	--	3,100	--	--	--	--	--	9.44	3.92	5.52	--
MW-1	10/02/2003	Well inaccessible		--	--	--	--	--	--	--	--	--	--	--	--	9.44	--	--	--
MW-1	10/16/2003	--	3,700 a	8,500	1,100	26	140	41	--	1,700	--	--	--	--	--	9.44	4.65	4.79	--
MW-1	01/05/2004	--	4,300 a	11,000	1,600	29	200	45	--	1,400	--	--	--	--	--	9.44	2.39	7.05	--
MW-1	04/01/2004	--	3,700 a	10,000	1,500	28	330	59	--	630	--	--	--	--	--	9.44	3.06	6.38	--
MW-1	08/02/2004	<1,000	4,600 a	9,100	1,700	17	200	24	--	1,700	2,900	<40	<40	<40	<40	9.44	4.50	4.94	--
MW-1	11/02/2004	<500	3,100 g	9,100	2,100	50	140	70	--	680	--	--	--	--	--	9.44	3.08	6.36	--
MW-1	01/10/2005	<500	3,600 g	21,000	2,700	31	1,000	880	--	1,000	--	--	--	--	--	9.44	2.43	7.01	--
MW-1	04/13/2005	740	2,500 a	8,800	1,500	20	180	130	--	430	--	--	--	--	--	9.44	2.44	7.00	--
MW-1	07/20/2005	530	5,900 g	11,000	880	23	150	99	--	570	2,100	<40	<40	<40	<40	9.44	4.65	4.79	--
MW-1	10/24/2005	1,100 l	5,100 a	8,900	2,100	23	68	37	--	780	760	--	--	--	--	9.37	3.70	5.67	--
MW-1	01/04/2006	279 f	2,830 f	11,800	562	12.6	35.0	24.4	--	99.2	90.7	--	--	--	--	9.37	1.92	7.45	--
MW-1	07/26/2006	690	5,100	12,700	389	15.9	55.5	40.1	--	727	841	<0.500	<0.500	<0.500	<0.500	9.37	3.18	6.19	--
MW-1	01/02/2007	<100 f	1,200 f	8,700	1,000	23	59	32	--	230	<5.0	--	--	--	--	9.37	3.21	6.16	--
MW-1	07/12/2007	<250 f	2,500 f	6,600 m	1,400	22 n	47	28.0 n	--	390	310	<50	<50	<50	<50	9.37	3.91	5.46	--
MW-1	01/10/2008	<250 f	1,400 f,o	7,100 m	1,500	25	39	34	--	190	840	--	--	--	--	9.37	3.03	6.34	--
MW-1	07/31/2008	<250 f	2,500 f,o	12,000	930	26	33	29	--	86	<200	<40	<40	<40	<40	9.37	3.72	5.65	--
MW-1	01/06/2009	<250 f	2,600 f,o	6,200	840	29	72	41	--	180	260	--	--	--	--	9.37	3.73	5.64	--
MW-1	07/01/2009	<250 f	95 f	710	110	7.7	3.8	4.1	--	37	110	<2.0	<2.0	<2.0	<2.0	9.37	3.92	5.45	--
MW-1	01/04/2010	<250 f	1,000 f, o	4,400	510	17	39	23	--	110	250	--	--	--	--	9.37	3.62	5.75	--
MW-1	01/18/2011	--	1,500 q	4,300	360	12	18	26	--	31	<100	<10	<10	<10	<10	9.37	3.02	6.35	--
MW-1	01/05/2012	--	550 f	4,000 m	39 s	6.1 s	7.7 s	18 s	--	9.6 s	35 s	<1.0 s	<1.0 s	<1.0 s	<1.0 s	9.37	2.83	6.54	--
MW-2	02/16/1989	--	--	20,000	200	900	2,700	9,600	--	--	--	--	--	--	--	7.68	5.33	2.35	--
MW-2	05/23/1989	--	1,600	1,500	4.3	2.9	11	150	--	--	--	--	--	--	--	7.68	5.23	2.45	--

TABLE 1

Page 3 of 25

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH _{mo}	TPH _d	TPH _g	B	T	E	X	MTBE	MTBE	GW Elevation (ft MSL)	DO Reading (mg/L)				
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020 (µg/L)	8260 (µg/L)						
MW-2	08/03/1989	—	7,400	15,000	75	120	850	2,200	—	—	—	—	7.68	6.03	1.65	—
MW-2	12/15/1989	—	2,600	5,000	52	13	4.1	290	—	—	—	—	7.68	6.43	1.25	—
MW-2	02/07/1990	—	4,800	13,000	32	34	230	640	—	—	—	—	7.68	5.82	1.86	—
MW-2	04/18/1990	—	3,200	9,800	33	19	460	1,700	—	—	—	—	7.68	5.88	1.80	—
MW-2	07/23/1990	—	2,700	9,600	41	27	540	940	—	—	—	—	7.68	6.05	1.63	—
MW-2	10/01/1990	—	1,600	390	3.4	15	8.5	25	—	—	—	—	7.68	—	—	—
MW-2	01/03/1991	—	830	1,800	56	4.4	4.8	92	—	—	—	—	7.68	6.82	0.86	—
MW-2	04/10/1991	—	280	1,900	ND	28	140	490	—	—	—	—	7.68	4.80	2.88	—
MW-2	07/12/1991	—	1,100	8,100	89	66	350	930	—	—	—	—	7.68	5.70	1.98	—
MW-2	10/08/1991	—	2,600	1,400	5.1	1.5	36	270	—	—	—	—	7.68	6.40	1.28	—
MW-2	02/06/1992	—	5,400 a	2,000	7.8	2.5	130	210	—	—	—	—	7.68	6.40	1.28	—
MW-2	05/04/1992	—	1,000	21	ND	ND	300	960	—	—	—	—	7.68	4.68	3.00	—
MW-2	07/28/1992	—	830 a	2,100	7.7	3.3	130	310	—	—	—	—	7.68	5.86	1.82	—
MW-2	10/27/1992	—	530	1,100	16	3.1	4.5	25	—	—	—	—	7.68	6.96	0.72	—
MW-2	01/14/1993	—	170 a	290	5.2	3.1	8.4	21	—	—	—	—	7.68	4.12	3.56	—
MW-2	04/23/1993	—	1,200 a	2,400	ND	ND	210	610	—	—	—	—	7.68	3.84	3.84	—
MW-2	07/20/1993	—	130	440	1.7	1.7	15	38	—	—	—	—	10.55	5.17	5.38	—
MW-2	10/18/1993	—	1,600 a	2,100	ND	ND	90	110	—	—	—	—	10.55	6.20	4.35	—
MW-2	01/06/1994	—	130	1.9 a	ND	6.7	7.1	12	—	—	—	—	10.55	5.39	5.16	—
MW-2	04/12/1994	—	130	120	ND	ND	3.4	4.3	—	—	—	—	10.55	4.72	5.83	—
MW-2	07/25/1994	—	280 a	0.18 a	5.3	ND	6.2	8.2	—	—	—	—	10.55	5.44	5.11	—
MW-2	10/25/1994	—	400	170	ND	ND	ND	ND	—	—	—	—	10.55	6.73	3.82	—
MW-2	01/09/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	10.55	4.34	6.21	—
MW-2	04/11/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	10.55	3.72	6.83	—
MW-2	07/18/1995	—	160	250	2.8	0.5	12	13	—	—	—	—	10.55	4.91	5.64	—
MW-2	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	10.55	5.88	4.67	—
MW-2	01/09/1996	—	130	790	5.1	1.5	2.4	4.6	1,400	—	—	—	10.55	4.75	5.80	—
MW-2	04/02/1996	—	—	260	<2	<2	13	6.9	540	—	—	—	10.55	3.25	7.30	—
MW-2	10/03/1996	—	620	<2,000	<20	<20	<20	<20	13,000	—	—	—	10.55	5.27	5.28	2.3
MW-2	04/03/1997	—	190	<1,000	<10	<10	<10	<10	2,800	—	—	—	10.55	3.99	6.56	2.2
MW-2	10/08/1997	—	1,100	<5,000	<50	<50	<50	<50	d	—	—	—	10.55	5.03	5.52	1.6
MW-2	06/10/1998	—	310	120	1.7	<1.0	<1.0	<1.0	3,800	—	—	—	10.55	4.11	6.44	0.7/0.6
MW-2	12/30/1998	—	1,050	<5,000	<50.0	<50.0	<50.0	<50.0	12,100	15,300	—	—	10.55	4.76	5.79	1.3/1.2
MW-2	06/25/1999	r	r	<1,000	<10.0	<10.0	<10.0	<10.0	7,570	—	—	—	10.55	4.63	5.92	2.3/2.5
MW-2	12/28/1999	—	446	228	4.54	<0.500	<0.500	<0.500	4,260	—	—	—	10.55	4.95	5.60	2.1/2.4
MW-2	05/31/2000	—	187	597	19.3	<0.500	0.860	<0.500	2,480	—	—	—	10.55	4.06	6.49	1.8/2.7
MW-2	10/17/2000	Well inaccessible	—	—	—	—	—	—	—	—	—	—	10.55	—	—	—
MW-2	05/01/2001	Well inaccessible	—	—	—	—	—	—	—	—	—	—	10.55	—	—	—
MW-2	11/05/2001	—	610	<500	<5.0	<5.0	<5.0	<5.0	—	1,800	—	—	10.55	6.12	4.43	0.6/1.1

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Well ID	Date	MTBE										TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)			
		TPHmo ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	8020 ($\mu\text{g/L}$)	8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)				
MW-2	05/01/2002	--	<50	440	<2.5	<2.5	<2.5	<2.5	--	1,300	--	--	--	--	10.55	3.85	6.70	6.2/0.9
MW-2	07/16/2002	--	250	<500	<5.0	<5.0	<5.0	<5.0	--	2,100	--	--	--	--	10.55	4.56	5.99	0.9/1.3
MW-2	10/17/2002	--	240	280	<1.0	<1.0	<1.0	<1.0	--	270	--	--	--	--	10.10	5.90	4.20	0.6/2.2
MW-2	01/21/2003	--	72	160	<0.50	<0.50	<0.50	<0.50	--	380	--	--	--	--	10.10	4.11	5.99	0.5/1.0
MW-2	05/01/2003	--	<50	350	<0.50	<0.50	<0.50	<1.0	--	110	--	--	--	--	10.10	4.18	5.92	--
MW-2	07/17/2003	--	61 a,f	120	<0.50	<0.50	<0.50	<1.0	--	14	--	--	--	--	10.10	4.72	5.38	--
MW-2	10/02/2003	--	200 a	190	1.6	<0.50	<0.50	<1.0	--	17	--	--	--	--	10.10	5.76	4.34	--
MW-2	01/05/2004	--	<50	77	<0.50	0.86	<0.50	<1.0	--	1.3	--	--	--	--	10.10	3.28	6.82	--
MW-2	04/01/2004	--	<50	450 a	<0.50	<0.50	<0.50	<1.0	--	1.6	--	--	--	--	10.10	3.71	6.39	--
MW-2	08/02/2004	<500	130 a	110	<0.50	<0.50	<0.50	<1.0	--	3.9	150	<2.0	<2.0	<2.0	10.10	5.50	4.60	--
MW-2	11/02/2004	<500	55 a	130	<0.50	<0.50	<0.50	<1.0	--	1.7	--	--	--	--	10.10	4.37	5.73	--
MW-2	01/10/2005	<500	<50	81	<0.50	<0.50	<0.50	<1.0	--	0.65	--	--	--	--	10.10	3.70	6.40	--
MW-2	04/13/2005	<500 b	<50 b	500	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	10.10	3.13	6.97	--
MW-2	07/20/2005	<500	330 a	810	11	<5.0	<5.0	<10	--	11	1,800	<20	<20	<20	10.10	5.75	4.35	--
MW-2	10/24/2005	<500	100 a	320	<0.50	<0.50	<0.50	<1.0	--	4.7	570	--	--	--	10.07	5.30	4.77	--
MW-2	01/04/2006	<100 f	<100 f	<50.0	<0.500	<0.500	<0.500	<0.500	--	<0.500	<10.0	--	--	--	10.07	2.35	7.72	--
MW-2	07/26/2006	295	<93.9	402	<0.500	<0.500	<0.500	<0.500	--	2.11	19.4	<0.500	<0.500	<0.500	10.07	4.40	5.67	--
MW-2	01/02/2007	<100 f	<50 f	210	<0.50	<0.50	<0.50	<1.0	--	1.7	<5.0	--	--	--	10.07	4.37	5.70	--
MW-2	07/12/2007	<250 f	85 f	140 m	<0.50	<1.0	<1.0	<1.0	--	2.9	150	<2.0	<2.0	<2.0	10.07	5.12	4.95	--
MW-2	01/10/2008	<250 f	54 f,o	110 m	<0.50	<1.0	<1.0	<1.0	--	2.0	45	--	--	--	10.07	3.81	6.26	--
MW-2	07/31/2008	Well inaccessible		--	--	--	--	--	--	--	--	--	--	--	10.07	--	--	--
MW-2	08/07/2008	<250 f	56 f	68	<0.50	<1.0	<1.0	<1.0	--	4.8	290	<2.0	<2.0	<2.0	10.07	5.30	4.77	--
MW-2	01/06/2009	290 f	66 f	80	<0.50	<1.0	<1.0	<1.0	--	4.1	330	--	--	--	10.07	4.78	5.29	--
MW-2	07/01/2009	<250 f	<50 f	310	<0.50	<1.0	<1.0	<1.0	--	2.9	180	<2.0	<2.0	<2.0	10.07	4.74	5.33	--
MW-2	01/04/2010	<250 f	<50 f	100	<0.50	<1.0	<1.0	<1.0	--	3.0	110	--	--	--	10.07	4.52	5.55	--
MW-3	02/16/1989	--	--	60,000	5,500	ND	3,200	5,200	--	--	--	--	--	--	7.81	5.17	2.64	--
MW-3	05/23/1989	--	1,500	ND	ND	200	ND	ND	--	--	--	--	--	--	7.81	5.09	2.72	--
MW-3	08/03/1989	--	1,200	2,000	120	ND	ND	86	--	--	--	--	--	--	7.81	5.34	2.47	--
MW-3	12/15/1989	--	1,700	5,200	380	12	17	410	--	--	--	--	--	--	7.81	6.02	1.79	--
MW-3	02/07/1990	--	230	260	17	47	5.4	2.5	--	--	--	--	--	--	7.81	4.95	2.86	--
MW-3	04/18/1990	--	ND	260	ND	ND	ND	9.4	--	--	--	--	--	--	7.81	5.55	2.26	--
MW-3	07/23/1990	--	210	510	46	ND	ND	9.3	--	--	--	--	--	--	7.81	5.81	2.00	--
MW-3	09/27/1990	--	350	460	6.3	1.2	ND	15	--	--	--	--	--	--	7.81	6.86	0.95	--
MW-3	01/03/1991	--	630	4,800	920	1.7	ND	190	--	--	--	--	--	--	7.81	6.84	0.97	--
MW-3	04/10/1991	--	60	120	1.2	8.8	3.5	21	--	--	--	--	--	--	7.81	4.93	2.88	--
MW-3	07/12/1991	--	ND	430	12	0.8	ND	7.7	--	--	--	--	--	--	7.81	5.56	2.25	--
MW-3	10/08/1991	--	560	770	140	ND	ND	53	--	--	--	--	--	--	7.81	6.62	1.19	--
MW-3	02/06/1992	--	340 a	500	74	0.7	5.2	5.3	--	--	--	--	--	--	7.81	6.28	1.53	--

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH _{mo}	TPH _d	TPH _g	B	T	E	X	MTBE		MTBE						Depth to Water (ft MSL)	GW Elevation (ft MSL)	DO Reading (mg/L)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020	8260	TBA	DIPE	ETBE	TAME	TOC (ft TOC)				
MW-3	05/04/1992	—	290 a	310	47	0.9	17	16	—	—	—	—	—	—	—	7.81	4.65	3.16	
MW-3	07/28/1992	—	100 a	780	130	ND	13	42	—	—	—	—	—	—	—	7.81	5.56	2.25	
MW-3	10/27/1992	—	69 a	740	92	ND	7.8	9.6	—	—	—	—	—	—	—	7.81	6.65	1.16	
MW-3	01/14/1993	—	ND	ND	24	2.8	ND	ND	—	—	—	—	—	—	—	7.81	3.88	3.93	
MW-3	01/06/1994	—	64	130	1.7	ND	ND	0.93	—	—	—	—	—	—	—	11.25 (TOB)	5.54	—	
MW-3	04/12/1994	—	75	ND	0.82	ND	ND	0.7	—	—	—	—	—	—	—	11.25 (TOB)	4.82	—	
MW-3	07/25/1994	—	ND	0.06 a	2.8	ND	ND	0.7	—	—	—	—	—	—	—	11.25 (TOB)	6.03 (TOB)	5.22	
MW-3	10/25/1994	—	100	70	ND	ND	ND	ND	—	—	—	—	—	—	—	11.25 (TOB)	6.48	—	
MW-3	01/09/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	11.25 (TOB)	4.86 (TOB)	6.39	
MW-3	04/11/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	11.25 (TOB)	4.22 (TOB)	7.03	
MW-3	07/18/1995	—	90	ND	2.8	ND	ND	ND	—	—	—	—	—	—	—	11.25 (TOB)	5.44 (TOB)	5.81	
MW-3	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.25 (TOB)	5.72	—	
MW-3	01/09/1996	—	90	90	1.7	ND	<0.5	<0.5	61	—	—	—	—	—	—	11.25 (TOB)	4.96	—	
MW-3	04/02/1996	—	—	<50	<0.5	<0.5	<0.5	<0.5	24	—	—	—	—	—	—	11.25 (TOB)	3.43	—	
MW-3	10/03/1996	—	180	<500	<5	<5	<5	<5	1,200	—	—	—	—	—	—	11.25 (TOB)	5.39	2.4	
MW-3	04/03/1997	—	83	150	3.2	<0.50	<0.50	0.81	280	—	—	—	—	—	—	11.25 (TOB)	4.20	2.0	
MW-3	10/08/1997	—	120	180	7.3	0.68	0.54	3.9	1,700	—	—	—	—	—	—	11.25 (TOB)	5.51 (TOB)	5.74	
MW-3	06/10/1998	—	120	130	12	0.85	<0.50	2.1	600	—	—	—	—	—	—	11.25 (TOB)	3.91 (TOB)	7.34	
MW-3	12/30/1998	—	108	<250	<2.50	<2.50	<2.50	<2.50	1,010	—	—	—	—	—	—	11.25 (TOB)	5.76 (TOB)	5.49	
MW-3	06/25/1999	r	r	269	4.24	<2.50	<2.50	<2.50	1,180	—	—	—	—	—	—	11.25 (TOB)	4.73	1.4/1.9	
MW-3	12/28/1999	—	122	333	41.4	6.48	6.57	21.3	2,680	—	—	—	—	—	—	11.25 (TOB)	5.75 (TOB)	5.50	
MW-3	05/31/2000	—	89.2	1,180	19.1	1.92	3.26	<1.00	2,130	—	—	—	—	—	—	11.25 (TOB)	4.96 (TOB)	6.29	
MW-3	10/17/2000	—	183 a	156	5.22	0.819	<0.500	1.53	2,250	—	—	—	—	—	—	11.25 (TOB)	5.70 (TOB)	5.55	
MW-3	05/01/2001	—	95.9	286	<2.50	<2.50	<2.50	<2.50	1,470	—	—	—	—	—	—	11.25 (TOB)	4.88 (TOB)	6.37	
MW-3	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.25 (TOB)	5.25 (TOB)	6.00	
MW-3	11/05/2001	—	<50	<500	<5.0	<5.0	<5.0	<5.0	—	2,100	—	—	—	—	—	11.25 (TOB)	6.25 (TOB)	5.00	
MW-3	05/01/2002	—	80	<100	<1.0	<1.0	<1.0	<1.0	—	430	—	—	—	—	—	11.25 (TOB)	4.77 (TOB)	6.48	
MW-3	07/16/2002	—	340	410	12	2.0	<2.0	3.5	—	530	—	—	—	—	—	11.25 (TOB)	5.44 (TOB)	5.81	
MW-3	10/17/2002	—	82	220	2.5	<2.0	<2.0	2.3	—	25	—	—	—	—	—	—	10.58	6.03	4.55
MW-3	01/21/2003	—	150	<50	<0.50	<0.50	<0.50	<0.50	—	28	—	—	—	—	—	10.58	4.30	6.28	
MW-3	05/01/2003	—	<50	60	<0.50	<0.50	<0.50	<0.50	—	16	—	—	—	—	—	10.58	4.30	6.28	
MW-3	07/17/2003	—	<50	120	1.2	<0.50	<0.50	<1.0	—	11	—	—	—	—	—	10.58	5.36	5.22	
MW-3	10/02/2003	—	56 a	160	3.1	1.1	<0.50	2.1	—	8.2	—	—	—	—	—	10.58	6.00	4.58	
MW-3	01/05/2004	—	<50	54	<0.50	<0.50	<0.50	<1.0	—	15	—	—	—	—	—	10.58	4.44	6.14	
MW-3	04/01/2004	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	4.2	—	—	—	—	—	10.58	4.29	6.29	
MW-3	08/02/2004	<500	<50	300	<2.5	<2.5	<2.5	<5.0	—	17	1,900	<10	<10	<10	<10	10.58	5.80	4.78	
MW-3	11/02/2004	<500	<50	72	0.51	<0.50	<0.50	<1.0	—	3.0	—	—	—	—	—	10.58	5.00	5.58	
MW-3	01/10/2005	<500	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	10.58	3.01	7.57	
MW-3	04/13/2005	<500	<50	<50	<0.50	<0.50	<0.50	<1.0	—	0.69	—	—	—	—	—	10.58	2.89	7.69	

TABLE 1

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE				Depth to Water (ft MSL)	GW Elevation (ft MSL)	DO Reading (mg/L)
		($\mu\text{g}/\text{L}$)	8020	8260	TBA	DIPE	ETBE	TAME									
MW-3	07/20/2005	<500	60 g	300	1.3	0.61	<0.50	1.2	—	4.7	780	<2.0	<2.0	<2.0	10.58	5.10	5.48
MW-3	10/24/2005	<500	57 a	210	1.2	<1.0	<1.0	<2.0	—	6.3	1,300	—	—	—	10.58	5.68	4.90
MW-3	01/04/2006	<100 f	<100 f	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	—	—	—	10.58	2.80	7.78
MW-3	07/26/2006	264	94.6	681	1.67	1.04	<0.500	1.75	—	13.4	1,500	<0.500	<0.500	<0.500	10.58	4.70	5.88
MW-3	01/02/2007	<100 f	<50 f	150	<0.50	<0.50	<0.50	<1.0	—	3.7	600	—	—	—	10.58	4.96	5.62
MW-3	07/12/2007	<250 f	<50 f	240 m	0.28 n	0.45 n	<1.0	0.93 n	—	9.6	1,000	<2.0	0.48 n	<2.0	10.58	5.50	5.08
MW-3	01/10/2008	<250 f	82 f,o	160 m	<1.0	<2.0	<2.0	<2.0	—	4.2	940	—	—	—	10.58	4.72	5.86
MW-3	07/31/2008	<250 f	<50 f	160	<1.0	<2.0	<2.0	<2.0	—	11	1,300	<4.0	<4.0	<4.0	10.58	5.63	4.95
MW-3	01/06/2009	310 f	220 f	130	<1.0	<2.0	<2.0	<2.0	—	8.9	870	—	—	—	10.58	5.48	5.10
MW-3	07/01/2009	<250 f	260 f	170	6.7	<1.0	<1.0	1.4	—	16	640	<2.0	<2.0	<2.0	10.58	5.31	5.27
MW-3	01/04/2010	<250 f	95 f	290	11	1.0	<1.0	1.3	—	11	370	—	—	—	10.58	5.01	5.57
MW-3	01/18/2011	<470	<470	<50	2.2	<0.50	<0.50	<1.0	—	2.6	200	<1.0	<1.0	<1.0	10.58	3.84	6.74
MW-3	01/05/2012	—	240 f	<50 m	0.93	<0.50	<0.50	<1.0	—	1.0	160	<1.0	<1.0	<1.0	10.58	5.13	5.45
MW-4	05/23/1989	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	5.60	1.78
MW-4	08/03/1989	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.37	1.01
MW-4	12/15/1989	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.91	0.47
MW-4	03/08/1990	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.06	1.32
MW-4	04/18/1990	—	—	—	—	—	—	—	—	—	—	—	—	—	7.38	5.84	1.54
MW-4	07/23/1990	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.92	0.46
MW-4	09/27/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	8.03	-0.65
MW-4	01/03/1991	—	—	—	—	—	—	—	—	—	—	—	—	—	7.38	7.54	-0.16
MW-4	04/10/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	5.06	2.32
MW-4	07/12/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.86	0.52
MW-4	10/08/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	7.44	-0.06
MW-4	02/06/1992	—	2,500 a	120	ND	ND	ND	ND	—	—	—	—	—	—	7.38	7.29	0.09
MW-4	05/04/1992	—	53	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	5.33	2.05
MW-4	07/28/1992	—	60	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	6.95	0.43
MW-4	10/27/1992	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	7.65	-0.27
MW-4	01/14/1993	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	4.84	2.54
MW-4	04/23/1993	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.38	4.84	2.54
MW-4	07/20/1993	—	ND	ND	2.2	ND	1.1	7.7	—	—	—	—	—	—	10.28	6.47	3.81
MW-4	10/18/1993	—	ND	ND	ND	1.2	ND	ND	—	—	—	—	—	—	10.28	7.35	2.93
MW-4	01/06/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.28	7.64	2.64
MW-4	04/12/1994	—	76	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.28	6.39	3.89
MW-4	07/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.28	7.00	3.28
MW-4	10/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.28	7.53	2.75
MW-4	01/09/1995	—	70 a	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.28	4.90	5.38
MW-4	04/11/1995	—	140	ND	1.5	ND	0.6	3.4	—	—	—	—	—	—	10.28	5.04	5.24

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE		TOC	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		($\mu\text{g}/\text{L}$)	8020	8260	TBA	DIPE	Ethane ($\mu\text{g}/\text{L}$)	TAME ($\mu\text{g}/\text{L}$)									
MW-4	07/18/1995	--	160	ND	13	3.4	ND	ND	--	--	--	--	--	--	10.28	6.18	4.10
MW-4	10/18/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	6.63	3.65
MW-4	01/09/1996	--	ND	<50	<0.5	ND	<0.5	<0.5	--	--	--	--	--	--	10.28	3.82	6.46
MW-4	04/02/1996	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	10.28	3.97	6.31
MW-4	10/03/1996	--	81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	10.28	3.74	6.54
MW-4	04/03/1997	--	69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	10.28	3.74	6.54
MW-4	10/08/1997	--	75	<50	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	10.28	4.89	5.39
MW-4 (D)	10/08/1997	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	10.28	4.89	5.39
MW-4	06/10/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	4.39	5.89
MW-4	12/30/1998	--	94.1	<50.0	<0.500	<0.500	<0.500	0.580	7.33	--	--	--	--	--	10.28	5.58	4.70
MW-4	06/25/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	4.17	6.11
MW-4	12/28/1999	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	--	--	--	--	--	10.28	4.54	5.74
MW-4	05/31/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	3.85	6.43
MW-4	10/17/2000	--	274 a	<50.0	<0.500	<0.500	<0.500	<0.500	9.40	--	--	--	--	--	10.28	3.50	6.78
MW-4	05/01/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	4.10	6.18
MW-4	11/05/2001	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	8.4	--	--	--	--	10.28	5.21	5.07
MW-4	05/01/2002	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	--	10.28	4.28	6.00
MW-4	07/16/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	10.28	3.87	6.41
MW-4	10/17/2002	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	--	9.83	4.66	5.17
MW-4	01/21/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	3.87	5.96
MW-4	05/01/2003	--	57 a	<50	<0.50	<0.50	<0.50	<1.0	--	<5.0	--	--	--	--	9.83	4.49	5.34
MW-4	07/17/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	5.46	4.37
MW-4	10/02/2003	--	<50	<50	<0.50	<0.50	<0.50	<1.0	--	5.9	--	--	--	--	9.83	5.51	4.32
MW-4	01/05/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	3.83	6.00
MW-4	04/01/2004	--	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.0	--	--	--	--	9.83	4.43	5.40
MW-4	08/02/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	5.05	4.78
MW-4	11/02/2004	<500	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.8	--	--	--	--	9.83	4.31	5.52
MW-4	01/10/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	3.51	6.32
MW-4	04/13/2005	<500 b	83 a,b	<50	<0.50	<0.50	<0.50	<1.0	--	5.1	--	--	--	--	9.83	3.77	6.06
MW-4	07/20/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	5.91	3.92
MW-4	10/24/2005	<500	92 g	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	9.83	3.98	5.85
MW-4	01/04/2006	<100 f	<100 f	<50.0	<0.500	<0.500	<0.500	<0.500	--	2.90	<10.0	--	--	--	9.83	3.45	6.38
MW-4	07/26/2006	364	<93.9	<50.0	<0.500	<0.500	<0.500	<0.500	--	2.39	55.5	<0.500	<0.500	<0.500	9.83	3.65	6.18
MW-4	01/02/2007	<100 f	<50 f	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	--	--	--	--	9.83	4.15	5.68
MW-4	07/12/2007	<250 f	<50 f	<50 m	<0.50	<1.0	<1.0	<1.0	--	2.0	<10	<2.0	<2.0	<2.0	9.83	4.40	5.43
MW-4	01/10/2008	<250 f	76 f,o	<50 m	<0.50	<1.0	<1.0	<1.0	--	2.0	--	--	--	--	9.83	4.27	5.56
MW-4	07/31/2008	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	--	1.9	<10	<2.0	<2.0	<2.0	9.83	4.00	5.83
MW-4	01/06/2009	<250 f	96 f	<50	<0.50	<1.0	<1.0	<1.0	--	1.8	--	--	--	--	9.83	4.73	5.10
MW-4	07/01/2009	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	--	2.0	<10	<2.0	<2.0	<2.0	9.83	4.70	5.13

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE	MTBE	TBA	DIPE	ETBE	TAME	TOC	Depth to Water	GW Elevation	DO Reading
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020	8260	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-4	01/04/2010	<250 f	53 f	<50	<0.50	<1.0	<1.0	<1.0	—	1.1	<10	—	—	—	9.83	4.64	5.19	—
MW-5	05/23/1989	—	7,000	26,000	1,500	280	ND	8,100	—	—	—	—	—	—	8.18	5.47	2.71	—
MW-5	08/03/1989	—	8,700	12,000	860	94	ND	2,600	—	—	—	—	—	—	8.18	5.94	2.24	—
MW-5	12/15/1989	—	710	1,000	22	35	18	44	—	—	—	—	—	—	8.18	6.75	1.43	—
MW-5	02/07/1990	—	620	ND	0.8	ND	ND	ND	—	—	—	—	—	—	8.18	6.03	2.15	—
MW-5	04/18/1990	—	5,000	19,000	4,500	850	97	8,000	—	—	—	—	—	—	8.18	5.80	2.38	—
MW-5	07/23/1990	—	2,700	23,000	3,600	400	160	6,500	—	—	—	—	—	—	8.18	6.00	2.18	—
MW-5	09/23/1990	—	550	5,400	1,400	26	13	1,300	—	—	—	—	—	—	8.18	7.18	1.00	—
MW-5	01/03/1991	—	560	860	280	2.8	0.8	45	—	—	—	—	—	—	8.18	7.17	1.01	—
MW-5	04/10/1991	—	1,800	12,000	710	130	500	2,400	—	—	—	—	—	—	8.18	5.25	2.93	—
MW-5	07/12/1991	—	1,700	24,000	2,200	280	430	5,700	—	—	—	—	—	—	8.18	5.70	2.48	—
MW-5	10/08/1991	—	1,400	2,800	860	13	ND	580	—	—	—	—	—	—	8.18	6.50	1.68	—
MW-5	02/06/1992	—	1,200	1,000	300	ND	14	62	—	—	—	—	—	—	8.18	6.35	1.83	—
MW-5	05/04/1992	—	4,100 a	10,000	1,500	350	710	2,300	—	—	—	—	—	—	8.18	4.87	3.31	—
MW-5	07/28/1992	—	3,800 a	12,000	2,200	63	1,400	3,500	—	—	—	—	—	—	8.18	5.73	2.45	—
MW-5	10/27/1992	—	480 a	7,500	1,100	59	230	900	—	—	—	—	—	—	8.18	6.98	1.20	—
MW-5	01/14/1993	—	1,100 a	7,700	420	49	570	840	—	—	—	—	—	—	8.18	4.70	3.48	—
MW-5	04/23/1993	—	1,600 a	110,000	2,900	2,500	3,400	12,000	—	—	—	—	—	—	8.18	4.19	3.99	—
MW-5	07/20/1993	—	1,200 a	18a	1,400	'84	1,500	3,200	—	—	—	—	—	—	10.87	5.10	5.77	—
MW-5	10/18/1993	—	5,800 a	14,000	2,000	100	2,300	5,100	—	—	—	—	—	—	10.87	5.79	5.08	—
MW-5	01/06/1994	—	1,100 a	81,000	11,000	9,300	3,600	12,000	—	—	—	—	—	—	10.87	5.56	5.31	—
MW-5	04/12/1994	—	4,100	17,000	2,900	380	430	1,300	—	—	—	—	—	—	10.87	4.90	5.97	—
MW-5	07/25/1994	—	5,400 a	5,900	1,500	42	34	170	—	—	—	—	—	—	10.87	5.38	5.49	—
MW-5	10/25/1994	—	1,900 a	2,300	35	3	ND	8	—	—	—	—	—	—	10.87	6.16	4.71	—
MW-5	01/09/1995	—	3,700 a	8,300	1,500	95	330	1,900	—	—	—	—	—	—	10.87	4.60	6.27	—
MW-5	04/11/1995	—	9,800	7,300	1,200	230	600	550	—	—	—	—	—	—	10.87	3.74	7.13	—
MW-5	07/18/1995	—	5,100	17,000	2,300	730	770	2,500	—	—	—	—	—	—	10.87	4.97	5.90	—
MW-5	10/18/1995	Well abandoned	—	—	—	—	—	—	—	—	—	—	—	—	10.87	5.67	5.20	—
MW-6	05/23/1989	—	7,000	22,000	16	6.5	7	3,400	—	—	—	—	—	—	8.21	5.47	2.74	—
MW-6	08/03/1989	—	8,800	28,000	1,200	130	2,100	2,800	—	—	—	—	—	—	8.21	5.91	2.30	—
MW-6	12/15/1989	—	5,500	16,000	370	92	200	180	—	—	—	—	—	—	8.21	5.98	2.23	—
MW-6	02/07/1990	—	2,600	22,000	520	85	630	770	—	—	—	—	—	—	8.21	5.47	2.74	—
MW-6	04/18/1990	—	5,700	21,000	900	77	2,700	2,700	—	—	—	—	—	—	8.21	5.80	2.41	—
MW-6	07/23/1990	—	3,000	24,000	1,000	94	3,400	2,700	—	—	—	—	—	—	8.21	5.85	2.36	—
MW-6	09/27/1990	—	ND	22,000	700	93	2,500	2,400	—	—	—	—	—	—	8.21	6.42	1.79	—
MW-6	01/03/1991	—	960	25,000	1,000	88	2,600	3,700	—	—	—	—	—	—	8.21	6.73	1.48	—
MW-6	04/10/1991	—	920	18,000	560	190	480	830	—	—	—	—	—	—	8.21	5.24	2.97	—

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE	MTBE				Depth to	GW	DO		
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	8020	8260	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	Water	Elevation	Reading
MW-6	07/12/1991	—	1,900	9,500	670	51	1,100	920	—	—	—	—	—	—	8.21	5.78	2.43	—
MW-6	10/08/1991	—	5,100	11,000	1,000	43	ND	ND	—	—	—	—	—	—	8.21	6.36	1.85	—
MW-6	02/06/1992	—	1,500 a	7,200	560	8	720	160	—	—	—	—	—	—	8.21	6.15	2.06	—
MW-6	05/04/1992	—	2,900 a	7,900	610	ND	1,500	240	—	—	—	—	—	—	8.21	5.07	3.14	—
MW-6	07/28/1992	—	3,200 a	17,000	1,200	ND	3,000	610	—	—	—	—	—	—	8.21	5.85	2.36	—
MW-6	10/27/1992	—	1,300 a	15,000	1,300	130	1,700	490	—	—	—	—	—	—	8.21	6.69	1.52	—
MW-6	01/14/1993	—	1,600 a	4,900	80	31	330	37	—	—	—	—	—	—	8.21	4.52	3.69	—
MW-6	04/23/1993	—	1,800 a	4,800	120	ND	780	73	—	—	—	—	—	—	8.21	4.32	3.89	—
MW-6	07/20/1993	—	910 a	19 a	570	18	1,100	130	—	—	—	—	—	—	11.04	5.39	5.65	—
MW-6	10/18/1993	—	2,500 a	24,000	770	440	1,600	830	—	—	—	—	—	—	11.04	6.67	4.37	—
MW-6	01/06/1994	—	2,300 a	20 a	450	30	530	52	—	—	—	—	—	—	11.04	5.66	5.38	—
MW-6	04/12/1994	—	1,600	3,600	150	ND	340	21	—	—	—	—	—	—	11.04	4.91	6.13	—
MW-6	07/25/1994	—	2,200 a	1,600	160	ND	ND	10	—	—	—	—	—	—	11.04	5.55	5.49	—
MW-6 (D)	07/25/1994	—	2,400 a	1,000	160	ND	ND	18	—	—	—	—	—	—	11.04	5.55	5.49	—
MW-6	10/25/1994	—	3,000 a	9,800	390	22	300	57	—	—	—	—	—	—	11.04	6.24	4.80	—
MW-6	01/09/1995	—	800 a	2,200	74	12	400	39	—	—	—	—	—	—	11.04	4.58	6.46	—
MW-6	04/11/1995	—	7,700	5,000	330	15	760	85	—	—	—	—	—	—	11.04	4.04	7.00	—
MW-6	07/18/1995	—	1,700	4,200	320	11	490	22	—	—	—	—	—	—	11.04	5.01	6.03	—
MW-6	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	11.04	5.86	5.18	—
MW-6	01/09/1996	—	790	5,600	59	<5	180	12	14,000	—	—	—	—	—	11.04	4.75	6.29	—
MW-6	04/02/1996	—	—	1,500	12	<5	170	9	1,900	—	—	—	—	—	11.04	3.82	7.22	—
MW-6	10/03/1996	—	1,800	2,600	110	<25	<25	<25	11,000	—	—	—	—	—	11.04	5.27	5.77	2.2
MW-6	04/03/1997	—	650	<2,500	30	<25	32	<25	10,000	—	—	—	—	—	11.04	4.42	6.62	2.0
MW-6	10/08/1997	—	1,100	1,900	31	<5.0	6.1	<5.0	2,600	—	—	—	—	—	11.04	4.70	6.34	1.0
MW-6	06/10/1998	—	1,500	<1,000	17	12	14	88	14,000	—	—	—	—	—	11.04	4.36	6.68	0.4/0.4
MW-6	12/30/1998	—	528	260	<2.50	<2.50	<2.50	<2.50	909	—	—	—	—	—	11.04	4.98	6.06	2.1/1.6
MW-6	06/25/1999	r	r	<2,500	<25.0	<25.0	<25.0	<25.0	8,850	7,630	—	—	—	—	11.04	4.81	6.23	1.4/3.6
MW-6	12/28/1999	—	416	526	7.60	<1.00	<1.00	<1.00	1,510	—	—	—	—	—	11.04	5.17	5.87	1.8/2.0
MW-6	05/31/2000	—	998	2,870	45.7	4.70	8.61	<2.50	3,780	—	—	—	—	—	11.04	4.58	6.46	0.92/2.30
MW-6	10/17/2000	—	944 a	2,370	49.8	5.36	<5.00	<5.00	746	—	—	—	—	—	11.04	4.80	6.24	2.5/2.1
MW-6	05/01/2001	—	706	3,000	2.72	<2.50	4.46	<2.50	473	—	—	—	—	—	11.04	4.75	6.29	2.2/1.6
MW-6	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	11.04	4.86	6.18	2.0/1.3
MW-6	11/05/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	11.04	5.73	5.31	0.6
MW-6	11/07/2001	—	180	1,700	1.3	1.2	1.3	1.1	—	430	—	—	—	—	11.04	5.75	5.29	24/1.8
MW-6	05/01/2002	—	<300	1,400	2.0	0.61	4.3	0.68	—	220	—	—	—	—	11.04	4.47	6.57	2.5/2.0
MW-6	07/16/2002	—	<600	3,500	31	1.5	5.7	1.2	—	220	—	—	—	—	11.04	5.05	5.99	0.6/0.6
MW-6	10/17/2002	—	<700	3,000	27	1.7	2.9	1.8	—	340	—	—	—	—	10.59	5.80	4.79	1.2/1.1
MW-6	01/21/2003	—	<200	900	1.5	<0.50	1.4	<0.50	—	73	—	—	—	—	10.59	4.39	6.20	0.8/0.6
MW-6	05/01/2003	—	160 a	700 a	0.58	<0.50	0.82	<1.0	—	71	—	—	—	—	10.59	4.19	6.40	—

TABLE 1
GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Well ID	Date	TPH _{mo} ($\mu\text{g/L}$)	TPH _d ($\mu\text{g/L}$)	TPH _g ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE		MTBE		TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
									8200 ($\mu\text{g/L}$)	8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)			
MW-6	07/17/2003	—	220 a,f	<1,200	<12	<12	<12	<25	—	840	—	—	—	—	10.59	5.22	5.37
MW-6	10/02/2003	—	300 a	<1,000	<10	<10	<10	<20	—	1,500	—	—	—	—	10.59	5.86	4.73
MW-6	01/05/2004	—	140 a	520	<0.50	0.72	<0.50	<1.0	—	30	—	—	—	—	10.59	3.79	6.80
MW-6	04/01/2004	—	220 a	650	<0.50	<0.50	0.54	<1.0	—	130	—	—	—	—	10.59	4.28	6.31
MW-6	08/02/2004	<500	500 a	1,600	<2.5	<2.5	<2.5	<5.0	—	480	900	<10	<10	<10	10.59	5.78	4.81
MW-6	11/02/2004	<500	150 g	580	<0.50	<0.50	<0.50	<1.0	—	55	—	—	—	—	10.59	4.73	5.86
MW-6	01/10/2005	<500	230 g	620	<0.50	<0.50	0.50	<1.0	—	17	—	—	—	—	10.59	3.70	6.89
MW-6	04/13/2005	520 b	570 a,b	2,000	0.98	1.7	1.2	1.2	—	190	—	—	—	—	10.59	3.75	6.84
MW-6	07/20/2005	<500	1,200 a	2,800	<2.0	2.1	<2.0	<4.0	—	320	1,800	<8.0	<8.0	<8.0	10.59	5.95	4.64
MW-6	10/24/2005	<500	1,300 a	2,000	<2.0	<2.0	<2.0	<4.0	—	200	560	—	—	—	9.14	5.21	3.93
MW-6	01/04/2006	<100 f	216 f	1,140	<0.500	<0.500	<0.500	<0.500	—	11.3	50.4	—	—	—	9.14	3.36	5.78
MW-6	07/26/2006	881	1,460	4,650	1.63	1.71	0.580	1.64	—	128	375	<0.500	<0.500	<0.500	9.14	4.76	4.38
MW-6	01/02/2007	<100 f	180 f	1,300	0.51	0.52	<0.50	<1.0	—	39	81	—	—	—	9.14	4.54	4.60
MW-6	07/12/2007	<250 f	540 f	1,700 m	0.31 n	1.0	0.24 n	0.94 n	—	49	120	<2.0	<2.0	<2.0	9.14	5.12	4.02
MW-6	01/10/2008	<250 f	200 f,o	900 m	<0.50	<1.0	<1.0	<1.0	—	4.0	11	—	—	—	9.14	4.33	4.81
MW-6	07/31/2008	<250 f	110 f,o	740	<0.50	<1.0	<1.0	<1.0	—	12	<10	<2.0	<2.0	<2.0	9.14	4.95	4.19
MW-6	01/06/2009	<250 f	120 f,o	480	<0.50	<1.0	<1.0	<1.0	—	4.0	11	—	—	—	9.14	4.80	4.34
MW-6	07/01/2009	<250 f	190 f,o	1,200	<0.50	<1.0	<1.0	<1.0	—	24	85	<2.0	<2.0	<2.0	9.14	4.94	4.20
MW-6	01/04/2010	<250 f	63 f,o	390	<0.50	<1.0	<1.0	<1.0	—	1.6	11	—	—	—	9.14	4.67	4.47
MW-6	01/18/2011	—	820 q	160	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	9.14	4.45	4.69
MW-6	01/05/2012	—	110 f	350 m	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	9.14	4.82	4.32
MW-7	05/23/1989	—	11,000	47,000	3,500	5,000	1,500	7,800	—	—	—	—	—	—	7.44	5.48	1.96
MW-7	08/03/1989	—	22,000	68,000	6,200	6,600	3,600	8,800	—	—	—	—	—	—	7.44	4.22	3.22
MW-7	12/15/1989	—	12,000	100,000	4,500	5,300	1,300	5,300	—	—	—	—	—	—	7.44	4.58	2.86
MW-7	02/07/1990	—	8,100	96,000	15,000	15,000	2,500	14,000	—	—	—	—	—	—	7.44	5.34	2.10
MW-7	04/18/1990	—	10,000	94,000	25,000	13,000	3,300	13,000	—	—	—	—	—	—	7.44	4.92	2.52
MW-7	07/23/1990	—	12,000	84,000	3,800	26,000	13,000	3,000	—	—	—	—	—	—	7.44	4.99	2.45
MW-7	09/27/1990	—	ND	43,000	25,000	6,100	2,400	9,000	—	—	—	—	—	—	7.44	6.16	1.28
MW-7	01/03/1991	—	3,100	78,000	26,000	16,000	3,000	14,000	—	—	—	—	—	—	7.44	4.96	2.48
MW-7	04/10/1991	—	1,800	140,000	26,000	16,000	2,200	14,000	—	—	—	—	—	—	7.44	4.13	3.31
MW-7	07/12/1991	—	1,100	79,000	7,700	7,200	2,300	10,000	—	—	—	—	—	—	7.44	4.98	2.46
MW-7	10/08/1991	—	390 a	55,000	29,000	7,500	1,800	9,300	—	—	—	—	—	—	7.44	5.48	1.96
MW-7	02/06/1992	—	9,600 a	63,000	16,000	8,700	1,600	7,400	—	—	—	—	—	—	7.44	5.05	2.39
MW-7	05/04/1992	—	9,800 a	67,000	22,000	13,000	1,800	9,400	—	—	—	—	—	—	7.44	4.43	3.01
MW-7	07/28/1992	—	13,000 a	85,000	26,000	17,000	2,900	15,000	—	—	—	—	—	—	7.44	4.88	2.56
MW-7	10/27/1992	—	1,900 a	63,000	21,000	11,000	3,000	11,000	—	—	—	—	—	—	7.44	5.39	2.05
MW-7	01/14/1993	—	2,300 a	120,000	28,000	21,000	1,600	15,000	—	—	—	—	—	—	7.44	4.26	3.18
MW-7	04/23/1993	—	12,000 a	60,000	17,000	3,700	2,200	11,000	—	—	—	—	—	—	7.44	4.04	3.40

TABLE 1

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH_{mo}	TPH_d	TPH_g	B	T	E	X	MTBE	MTBE	TOC	Depth to Water	GW Elevation	DO Reading				
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	8020 ($\mu\text{g/L}$)	8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-7 (D)	04/23/1993	—	14,000 a	50,000	17,000	4,200	2,200	11,000	—	—	—	—	—	—	7.44	4.04	3.40	—
MW-7	07/20/1993	—	13,000	47,000	23,000	9,900	2,200	12,000	—	—	—	—	—	—	10.28	4.36	5.92	—
MW-7	10/18/1993	—	10,000 a	44,000	22,000	3,800	2,600	10,000	—	—	—	—	—	—	10.28	5.14	5.14	—
MW-7	01/06/1994	—	5,200 a	65,000	16,000	4,900	1,900	8,500	—	—	—	—	—	—	10.28	4.83	5.45	—
MW-7	04/12/1994	—	3,400	68,000	12,000	2,000	580	6,400	—	—	—	—	—	—	10.28	4.24	6.04	—
MW-7	07/25/1994	—	4,200 a	63,000	16,000	5,800	300	8,300	—	—	—	—	—	—	10.28	4.58	5.70	—
MW-7	10/25/1994	—	3,800 a	46,000	16,000	3,700	1,200	7,300	—	—	—	—	—	—	10.28	5.07	5.21	—
MW-7	01/09/1995	—	3,300 a	62,000	24,000	8,500	1,100	9,400	—	—	—	—	—	—	10.28	3.38	6.90	—
MW-7 (D)	01/11/1995	—	3,200 a	57,000	9,500	7,900	620	8,000	—	—	—	—	—	—	10.28	3.38	6.90	—
MW-7	04/11/1995	—	7,000	53,000	13,000	4,200	1,500	7,700	—	—	—	—	—	—	10.28	3.52	6.76	—
MW-7 (D)	04/12/1995	—	7,600	55,000	11,000	3,700	1,300	6,400	—	—	—	—	—	—	10.28	3.52	6.76	—
MW-7	07/18/1995	—	2,700	95,000	24,000	8,000	2,100	12,000	—	—	—	—	—	—	10.28	4.70	5.58	—
MW-7	10/18/1995	Well abandoned	—	—	—	—	—	—	—	—	—	—	—	—	10.28	5.25	5.03	—
MW-8	05/23/1989	—	100	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.62	1.17	—
MW-8	08/03/1989	—	75	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.62	1.17	—
MW-8	12/15/1989	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.71	1.08	—
MW-8	03/08/1990	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	4.95	2.84	—
MW-8	04/18/1990	—	—	—	—	—	—	—	—	—	—	—	—	—	7.79	6.40	1.39	—
MW-8	07/23/1990	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.62	1.17	—
MW-8	09/27/1990	—	1,100	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.98	0.81	—
MW-8	01/03/1991	—	ND	ND	1.3	ND	ND	ND	—	—	—	—	—	—	7.79	7.03	0.76	—
MW-8	04/10/1991	—	ND	50	0.7	1.1	0.8	1	—	—	—	—	—	—	7.79	4.40	3.39	—
MW-8	07/12/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	6.80	0.99	—
MW-8	10/08/1991	—	ND	ND	1.4	ND	ND	ND	—	—	—	—	—	—	7.79	7.56	0.23	—
MW-8	02/06/1992	—	60 a	ND	ND	0.7	ND	ND	—	—	—	—	—	—	7.79	6.94	0.85	—
MW-8	05/04/1992	—	210 a	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	5.86	1.93	—
MW-8	07/28/1992	—	ND	51	ND	ND	1	0.6	—	—	—	—	—	—	7.79	6.94	0.85	—
MW-8	10/27/1992	—	ND	ND	ND	6.6	ND	ND	—	—	—	—	—	—	7.79	7.83	-0.04	—
MW-8	01/14/1993	—	64 a	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	3.60	4.19	—
MW-8 (D)	01/14/1993	—	—	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	3.60	4.19	—
MW-8	04/23/1993	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	7.79	4.12	3.67	—
MW-8	07/20/1993	—	ND	ND	0.7	0.7	0.8	4.1	—	—	—	—	—	—	10.61	6.38	4.23	—
MW-8	10/18/1993	—	ND	ND	ND	800	ND	ND	—	—	—	—	—	—	10.61	7.47	3.14	—
MW-8	01/06/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.61	7.20	3.41	—
MW-8	04/12/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.61	6.16	4.45	—
MW-8	07/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.61	6.94	3.67	—
MW-8	10/25/1994	—	ND	ND	ND	1	ND	ND	—	—	—	—	—	—	10.61	7.43	3.18	—
MW-8	01/09/1995	—	70 a	ND	ND	ND	ND	ND	—	—	—	—	—	—	10.61	3.98	6.63	—

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE						Depth to Water (ft MSL)	GW Elevation (ft MSL)	DO Reading (mg/L)
		($\mu\text{g/L}$)	8020	8260	TBA	DIPE	ETBE	TAME	TOC (ft MSL)										
MW-8	04/11/1995	—	78	ND	0.63	1.3	ND	0.75	—	—	—	—	—	—	—	10.61	4.12	6.49	
MW-8	07/18/1995	—	130	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.61	5.21	5.40	
MW-8	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	5.58	5.03	
MW-8	01/09/1996	—	ND	<50	<0.5	<0.5	<0.5	<0.5	ND	—	—	—	—	—	—	10.61	5.09	5.52	
MW-8	04/02/1996	—	—	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	—	10.61	3.42	7.19	
MW-8	10/03/1996	—	<69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	—	10.61	4.30	6.31	
MW-8	04/03/1997	—	62	<50	<0.50	<0.50	<0.50	0.91	<2.5	—	—	—	—	—	—	10.61	4.58	6.03	
MW-8	10/08/1997	—	57	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	10.61	3.00	7.61	
MW-8	06/10/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	2.88	7.73	
MW-8	12/30/1998	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	—	—	—	—	—	—	10.61	5.38	5.23	
MW-8	06/25/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	4.53	6.08	
MW-8	12/28/1999	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	10.61	4.93	5.68	
MW-8	05/31/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	4.02	6.59	
MW-8	10/17/2000	—	143 a	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	10.61	3.10	7.51	
MW-8	05/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	4.12	6.49	
MW-8	11/05/2001	—	<50	<50	<0.50	0.99	<0.50	<0.50	—	<5.0	—	—	—	—	—	10.61	5.00	5.61	
MW-8	05/01/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	10.61	3.25	7.36	
MW-8	07/16/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	3.64	6.97	
MW-8	10/17/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	10.18	4.53	5.65	
MW-8	01/21/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	3.98	6.20	
MW-8	05/01/2003	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	10.18	4.00	6.18	
MW-8	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	4.37	5.81	
MW-8	10/02/2003	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	10.18	4.56	5.62	
MW-8	01/05/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	2.90	7.28	
MW-8	04/01/2004	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	10.18	3.83	6.35	
MW-8	08/02/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	5.35	4.83	
MW-8	11/02/2004	<500	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	10.18	4.28	5.90	
MW-8	01/10/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	2.44	7.74	
MW-8	04/13/2005	<500	120 h	<50 i	<0.50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	10.18	2.75	7.43	
MW-8	07/20/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	4.95	5.23	
MW-8	10/24/2005	<500	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	10.18	3.94	6.24	
MW-8	01/04/2006	206 f	224 f	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	—	—	—	10.18	1.87	8.31	
MW-8	07/26/2006	315	<93.9	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	10.18	4.07	6.11	
MW-8	01/02/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	3.94	6.24	
MW-8	07/12/2007	<250 f	<50 f	<50 m	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	10.18	4.08	6.10	
MW-8	01/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	3.00	7.18	
MW-8	07/31/2008	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	10.18	4.24	5.94	
MW-8	01/06/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	4.41	5.77	
MW-8	07/01/2009	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	10.18	4.50	5.68	

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	<i>TPHmo</i>	<i>TPHd</i>	<i>TPHg</i>	<i>B</i>	<i>T</i>	<i>E</i>	<i>X</i>	<i>MTBE</i>	<i>MTBE</i>	<i>TBA</i>	<i>DIPE</i>	<i>ETBE</i>	<i>TAME</i>	<i>TOC</i>	<i>Depth to Water</i>	<i>GW Elevation</i>	<i>DO Reading</i>	
		($\mu\text{g/L}$)	8020 ($\mu\text{g/L}$)	8260 ($\mu\text{g/L}$)	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)											
MW-8	01/04/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.18	4.46	5.72	—
MW-9	08/03/1989	—	12,000	47,000	5,600	6,600	1,500	8,500	—	—	—	—	—	—	—	7.63	5.78	1.85	—
MW-9	12/15/1989	—	9,200	88,000	4,300	5,400	140	5,600	—	—	—	—	—	—	—	7.63	5.24	2.39	—
MW-9	02/07/1990	—	7,400	50,000	1,800	1,400	3,200	1,800	—	—	—	—	—	—	—	7.63	5.23	2.40	—
MW-9	04/18/1990	—	7,500	50,000	14,000	11,000	730	10,000	—	—	—	—	—	—	—	7.63	5.34	2.29	—
MW-9	07/23/1990	—	3,200	62,000	19,000	16,000	950	15,000	—	—	—	—	—	—	—	7.63	5.65	1.98	—
MW-9	09/27/1990	—	2,700	30,000	16,000	6,500	980	11,000	—	—	—	—	—	—	—	7.63	5.96	1.67	—
MW-9	01/03/1991	—	2,500	34,000	9,200	3,200	770	7,000	—	—	—	—	—	—	—	7.63	6.23	1.40	—
MW-9	04/10/1991	—	2,200	66,000	17,000	13,000	1,400	14,000	—	—	—	—	—	—	—	7.63	4.65	2.98	—
MW-9	07/12/1991	—	2,000	40,000	7,700	3,200	1,100	9,400	—	—	—	—	—	—	—	7.63	5.65	1.98	—
MW-9	10/08/1991	—	4,700 a	20,000	11,000	640	240	6,000	—	—	—	—	—	—	—	7.63	6.08	1.55	—
MW-9	02/06/1992	—	6,600 a	36,000	11,000	490	1,100	6,700	—	—	—	—	—	—	—	7.63	5.92	1.71	—
MW-9	05/04/1992	—	5,800 a	31,000	11,000	1,700	1,200	8,700	—	—	—	—	—	—	—	7.63	4.80	2.83	—
MW-9	07/28/1992	—	14,000	50,000	17,000	1,200	1,500	12,000	—	—	—	—	—	—	—	7.63	5.61	2.02	—
MW-9	10/27/1992	—	880 a	43,000	15,000	680	1,700	8,100	—	—	—	—	—	—	—	7.63	6.24	1.39	—
MW-9	01/14/1993	—	730 a	52,000	9,600	1,100	1,100	7,000	—	—	—	—	—	—	—	7.63	4.95	2.68	—
MW-9	04/23/1993	—	8,000 a	45,000	11,000	1,400	1,500	10,000	—	—	—	—	—	—	—	7.63	4.54	3.09	—
MW-9	07/20/1993	—	5,100	25,000	10,000	320	1,100	7,100	—	—	—	—	—	—	—	10.48	5.25	5.23	—
MW-9	10/18/1993	—	4,900 a	32,000	14,000	530	2,000	10,000	—	—	—	—	—	—	—	10.48	6.00	4.48	—
MW-9	01/06/1994	—	7,700 a	41,000	15,000	810	1,400	9,000	—	—	—	—	—	—	—	10.48	5.62	4.86	—
MW-9 (D)	01/06/1994	—	8,300 a	43,000	15,000	920	1,300	8,000	—	—	—	—	—	—	—	10.48	5.62	4.86	—
MW-9	04/12/1994	—	2,000	39,000	8,300	ND	ND	4,000	—	—	—	—	—	—	—	10.48	4.31	6.17	—
MW-9	07/25/1994	—	3,600 a	22,000	7,500	150	ND	4,100	—	—	—	—	—	—	—	10.48	5.43	5.05	—
MW-9	10/25/1994	—	3,200 a	31,000	13,000	240	1,000	8,500	—	—	—	—	—	—	—	10.48	6.00	4.48	—
MW-9 (D)	10/26/1994	—	3,500 a	31,000	13,000	220	1,100	8,300	—	—	—	—	—	—	—	10.48	6.00	4.48	—
MW-9	01/09/1995	—	2,300 a	4,800	1,200	510	42	1,400	—	—	—	—	—	—	—	10.48	4.26	6.22	—
MW-9	04/11/1995	—	3,400	20,000	5,100	460	400	3,400	—	—	—	—	—	—	—	10.48	4.08	6.40	—
MW-9	07/18/1995	—	2,900	43,000	12,000	1,800	960	9,100	—	—	—	—	—	—	—	10.48	5.07	5.41	—
MW-9	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.48	5.82	4.66	—
MW-9	01/09/1996	—	2,800	64,000	12,000	5,400	1,800	10,000	2100	—	—	—	—	—	—	10.48	4.36	6.12	—
MW-9	04/02/1996	—	—	39,000	10,000	100	520	4,100	<500	—	—	—	—	—	—	10.48	3.86	6.62	—
MW-9	10/03/1996	—	3,100	46,000	12,000	180	1,400	6,700	2,300	—	—	—	—	—	—	10.48	4.90	5.58	1.4
MW-9	04/03/1997	—	2,300	36,000	9,700	140	580	3,900	<500	—	—	—	—	—	—	10.48	3.98	6.50	1.8
MW-9	10/08/1997	—	3,500	34,000	6,900	<100	830	4,500	<125	—	—	—	—	—	—	10.48	4.17	6.31	0.8
MW-9	06/10/1998	—	2,500	20,000	9,900	250	3,100	170	460	—	—	—	—	—	—	10.48	3.84	6.64	0.3/0.4
MW-9	12/30/1998	—	1,900	30,100	8,500	166	603	3,340	<100	—	—	—	—	—	—	10.48	4.72	5.76	1.1/1.2
MW-9	06/25/1999	r	r	26,300	8,090	73.5	409	2,730	<100	—	—	—	—	—	—	10.48	4.47	6.01	1.2/2.4
MW-9	12/28/1999	—	839	4,130	1,260	57.9	103	213	1,470	—	—	—	—	—	—	10.48	4.82	5.66	1.0/1.1

TABLE 1

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE 8020 ($\mu\text{g/L}$)	MTBE 8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-9	05/31/2000	—	1,300	8,210	9,290	62.3	141	908	565	—	—	—	—	—	10.48	3.87	6.61	2.8/c
MW-9	10/17/2000	—	1,510 a	19,000	5,420	54.5	479	2,680	<250	—	—	—	—	—	10.48	3.87	6.61	3.0/3.5
MW-9	05/01/2001	—	976	24,300	11,200	52.9	159	1,610	<250	—	—	—	—	—	10.48	4.44	6.04	1.6/1.0
MW-9	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	10.48	3.99	6.49	1.9/1.5
MW-9	11/05/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	10.48	5.41	5.07	0.7
MW-9	11/07/2001	—	<1,000	25,000	7,300	85	630	4,100	—	<250	—	—	—	—	10.48	5.60	4.88	1.4/1.1
MW-9	05/01/2002	—	<700	27,000	11,000	79	260	1,300	—	<500	—	—	—	—	10.48	3.38	7.10	29/1.1
MW-9	07/16/2002	—	<700	29,000	12,000	<50	74	810	—	<500	—	—	—	—	10.48	4.04	6.44	0.7/0.4
MW-9	10/17/2002	—	<800	15,000	10,000	31	36	490	—	53	—	—	—	—	10.07	4.92	5.15	1.0/1.2
MW-9	01/21/2003	—	<400	8,500	3,100	39	190	590	—	<200	—	—	—	—	10.07	4.52	5.55	0.4/0.8
MW-9	05/01/2003	—	1,600 a	16,000 a	4,900	<100	<100	1,500	—	<1,000	—	—	—	—	10.07	4.05	6.02	—
MW-9	07/17/2003	—	1,300 a,f	14,000	9,900	130	<120	2,300	—	<120	—	—	—	—	10.07	4.82	5.25	—
MW-9	10/02/2003	—	3,100 a	13,000	8,500	190	770	5,100	—	<100	—	—	—	—	10.07	5.17	4.90	—
MW-9	01/05/2004	—	1,500 a	37,000	15,000	250	750	3,800	—	<100	—	—	—	—	10.07	3.94	6.13	—
MW-9	04/01/2004	—	1,800 a	14,000	6,800	80	230	1,800	—	<50	—	—	—	—	10.07	4.24	5.83	—
MW-9	08/02/2004	<500	710 g	12,000	8,200	<50	66	650	—	<50	<500	<200	<200	<200	10.07	5.10	4.97	—
MW-9	11/02/2004	<500	1,500 g	15,000	9,300	73	240	1,400	—	70	—	—	—	—	10.07	4.21	5.86	—
MW-9	01/10/2005	<500	1,700 g	28,000	7,400	1,100	1,400	5,400	—	<50	—	—	—	—	10.07	3.45	6.62	—
MW-9	04/13/2005	690	5,100 g	55,000	15,000	3,300	2,800	12,000	—	<50	—	—	—	—	10.07	3.53	6.54	—
MW-9	07/20/2005	<1,000	6,700 g	27,000	5,100	320	900	3,200	—	<50	<500	<200	<200	<200	10.07	5.75	4.32	—
MW-9	10/24/2005	<500	4,200 g	25,000	11,000	680	890	3,900	—	<50	—	—	—	—	10.04	4.42	5.62	—
MW-9	01/04/2006	427 f	3,400 f	39,600	5,800	636	187	6,130	—	73.1	139	—	—	—	10.04	3.10	6.94	—
MW-9	07/26/2006	685	1,580	41,000	11,800	421	979	2,520	—	54.2	85.1	<0.500	<0.500	<0.500	10.04	4.45	5.59	—
MW-9	01/02/2007	100 f	740 f	19,000	6,900	300	660	2,500	—	30	—	—	—	—	10.04	4.81	5.23	—
MW-9	07/12/2007	<250 f	730 f	13,000 m	6,100	44 n	100	561 n	—	29 n	<500	<100	<100	<100	10.04	4.50	5.54	—
MW-9	01/10/2008	<250 f	850 f,o	22,000 m,o	8,800	180	270	1,330	—	12	47	—	—	—	10.04	4.32	5.72	—
MW-9	07/31/2008 p	<250 f	600 f,o	170	69	<1.0	<1.0	1.8	—	<1.0	<10	<2.0	<2.0	<2.0	10.04	3.78	6.26	—
MW-9	08/29/2008	1,600 f,o	2,200 f,o	20,000	5,900	<100	450	2,500	—	<100	<1,000	<200	<200	<200	10.04	4.24	5.80	—
MW-9	01/06/2009	2,100 f	1,500 f,o	11,000	5,500	41	110	920	—	29	—	—	—	—	10.04	4.70	5.34	—
MW-9	07/01/2009	<250 f	250 f,o	6,700	2,900	<25	<25	220	—	<25	<250	<50	<50	<50	10.04	4.67	5.37	—
MW-9	01/04/2010	1,100 f, o	470 f,o	8,300	3,200	<50	<50	110	—	<50	<500	—	—	—	10.04	4.87	5.17	—
MW-9	01/18/2011	630 q	1,200 q	6,800	2,800	38	240	590	—	<50	<500	<50	<50	<50	10.04	3.92	6.12	—
MW-9	01/05/2012	93 f	260 f	10,000 m	4,400	52	74	190	—	<50	<500	<50	<50	<50	10.04	4.40	5.64	—
MW-10	12/15/1989	—	3,100	ND	1,500	ND	ND	ND	—	—	—	—	—	—	7.45	6.33	1.12	—
MW-10	03/08/1990	—	1,800	25,000	17,000	330	2,100	1,400	—	—	—	—	—	—	7.45	5.41	2.04	—
MW-10	04/18/1990	—	3,600	23,000	15,000	1,200	190	3,300	—	—	—	—	—	—	7.45	5.60	1.85	—
MW-10	07/23/1990	—	1,900	18,000	12,000	380	ND	1,400	—	—	—	—	—	—	7.45	5.81	1.64	—
MW-10	09/27/1990	—	430	9,500	13,000	100	1,800	230	—	—	—	—	—	—	7.45	6.64	0.81	—

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	<i>TPHmo</i>	<i>TPHd</i>	<i>TPHg</i>	<i>B</i>	<i>T</i>	<i>E</i>	<i>X</i>	<i>MTBE</i>	<i>MTBE</i>	<i>TBA</i>	<i>DIME</i>	<i>ETBE</i>	<i>TAME</i>	<i>TOC</i>	<i>Depth to Water</i>	<i>GW Elevation</i>	<i>DO Reading</i>	
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	8020	8260	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-10	01/03/1991	—	630	4,300	3,700	10	ND	110	—	—	—	—	—	—	—	7.45	6.96	0.49	—
MW-10	04/10/1991	—	1,400	45,000	16,000	4,600	3,000	6,900	—	—	—	—	—	—	—	7.45	4.70	2.75	—
MW-10	07/12/1991	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	7.45	5.90	1.55	—
MW-10	10/08/1991	—	1,500 a	3,800	13,000	82	9	500	—	—	—	—	—	—	—	7.45	6.68	0.77	—
MW-10	02/06/1992	—	1,600 a	22,000	12,000	ND	600	170	—	—	—	—	—	—	—	7.45	7.04	0.41	—
MW-10	05/04/1992	—	8,000 a	39,000	14,000	5,000	1,800	5,000	—	—	—	—	—	—	—	7.45	4.69	2.76	—
MW-10	07/28/1992	—	8,700 a	38,000	17,000	2,800	1,500	4,000	—	—	—	—	—	—	—	7.45	6.00	1.45	—
MW-10	01/14/1993	—	950 a	26,000	10,000	ND	ND	160	—	—	—	—	—	—	—	7.45	6.07	1.38	—
MW-10	04/23/1993	—	1,900 a	80,000	21,000	13,000	3,400	12,000	—	—	—	—	—	—	—	7.45	4.14	3.31	—
MW-10	07/20/1993	—	4,800	31,000	14,000	4,200	1,700	5,500	—	—	—	—	—	—	—	10.61	5.62	4.99	—
MW-10	10/18/1993	—	1,200 a	13,000	8,600	220	ND	450	—	—	—	—	—	—	—	10.61	6.43	4.18	—
MW-10	01/06/1994	—	670 a	16,000	9,700	<125	<125	210	—	—	—	—	—	—	—	10.61	6.74	3.87	—
MW-10	04/12/1994	—	860	16,000	5,600	ND	ND	ND	—	—	—	—	—	—	—	10.61	5.98	4.63	—
MW-10	07/25/1994	—	2,100 a	2,300	1,400	26	25	51	—	—	—	—	—	—	—	10.61	6.31	4.30	—
MW-10	10/25/1994	—	1,000 a	1,400	290	5	2	38	—	—	—	—	—	—	—	10.61	6.64	3.97	—
MW-10	01/09/1995	—	2,300 a	16,000	7,500	1,400	230	1,500	—	—	—	—	—	—	—	10.61	5.70	4.91	—
MW-10	04/11/1995	—	5,000	54,000	13,000	4,500	1,500	4,500	—	—	—	—	—	—	—	10.61	5.82	4.79	—
MW-10	07/18/1995	—	2,600	72,000	20,000	7,200	2,800	9,000	—	—	—	—	—	—	—	10.61	6.79	3.82	—
MW-10	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	5.31	5.30	—
MW-10	01/09/1996	—	2,100	32,000	8,000	1,600	880	3,200	12,000	—	—	—	—	—	—	10.61	5.92	4.69	—
MW-10	04/02/1996	—	—	68,000	9,100	2,300	1,100	3,700	3,300	—	—	—	—	—	—	10.61	5.43	5.18	—
MW-10	10/03/1996	—	2,900	33,000	11,000	1,300	830	2,400	7,300	—	—	—	—	—	—	10.61	6.07	4.54	1.7
MW-10 (D)	10/03/1996	—	3,300	40,000	12,000	1,700	1,100	3,100	6,500	—	—	—	—	—	—	10.61	6.07	4.54	1.7
MW-10	04/03/1997	—	3,400	36,000	12,000	2,300	1,400	4,500	2,300	—	—	—	—	—	—	10.61	3.45	7.16	1.8
MW-10 (D)	04/03/1997	—	3,000	52,000	12,000	2,300	1,400	4,500	2,100	—	—	—	—	—	—	10.61	3.45	7.16	1.8
MW-10	10/08/1997	—	3,100	20,000	7,500	420	470	1,300	1,500	—	—	—	—	—	—	10.61	3.72	6.89	1.2
MW-10	06/10/1998	—	2,500	48,000	14,000	2,600	1,500	4,800	1,800	—	—	—	—	—	—	10.61	4.00	6.61	0.7/0.5
MW-10	12/30/1998	—	2,820	17,800	6,000	136	344	639	1,250	—	—	—	—	—	—	10.61	5.26	5.35	1.0/0.7
MW-10	06/25/1999	r	r	17,600	6,150	212	287	687	1,740	—	—	—	—	—	—	10.61	4.49	6.12	0.9/2.5
MW-10	12/28/1999	—	1,400	10,800	3,370	155	321	626	3,740	—	—	—	—	—	—	10.61	4.87	5.74	1.2/1.4
MW-10	05/31/2000	—	2,270	3,020	1,080	34.3	118	251	775	—	—	—	—	—	—	10.61	3.48	7.13	28/3.9
MW-10	10/17/2000	—	1,750 a	15,500	7,450	54.7	387	308	3,840	4,300	—	—	—	—	—	10.61	4.25	6.36	23/3.0
MW-10	05/01/2001	—	2,260	27,900	9,920	1,050	1,020	2,370	2,180	—	—	—	—	—	—	10.61	5.40	5.21	2.0/1.1
MW-10	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	3.74	6.87	3.70/1.8
MW-10	11/05/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.61	6.08	4.53	0.6
MW-10	11/07/2001	—	360	14,000	5,300	260	430	810	—	1,700	—	—	—	—	—	10.61	5.45	5.16	1.8/1.0
MW-10	05/01/2002	—	<1,500	79,000	16,000	4,400	3,300	8,800	—	890	—	—	—	—	—	10.61	4.62	5.99	4.0/0.5
MW-10	07/16/2002	—	<1,000	21,000	6,500	350	460	1,000	—	1,200	—	—	—	—	—	10.61	5.80	4.81	0.5/1.5
MW-10	10/17/2002	—	<1,800	17,000	5,800	290	520	1,100	—	980	—	—	—	—	—	9.81	5.27	4.54	0.8/1.2

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE				Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020	8260	TBA	DIPE	ETBE	TAME				
MW-10	01/21/2003	--	<2,000	52,000	13,000	2,000	2,100	4,800	--	<1,000	--	--	--	--	9.81	5.72	4.09	0.3/0.6
MW-10	05/01/2003	--	3,800 a	40,000	13,000	1,700	2,200	5,000	--	2,900	--	--	--	--	9.81	4.29	5.52	--
MW-10	07/17/2003	--	1,700 a,f	13,000	7,200	250	740	1,500	--	2,400	--	--	--	--	9.81	5.05	4.76	--
MW-10	10/02/2003	--	1,400 a	<5,000	2,700	<50	56	<100	--	2,800	--	--	--	--	9.81	5.46	4.35	--
MW-10	01/05/2004	--	2,300 a	77,000	21,000	4,200	3,900	8,500	--	1,900	--	--	--	--	9.81	3.52	6.29	--
MW-10	04/01/2004	--	3,100 a	33,000	11,000	1,000	1,600	3,600	--	5,200	--	--	--	--	9.81	4.12	5.69	--
MW-10	08/02/2004	570	1,100 a	9,900	4,100	140	500	700	--	3,800	710	<100	<100	<100	9.81	5.35	4.46	--
MW-10	11/02/2004	<500	3,500 g	48,000	16,000	1,400	3,100	6,000	--	3,100	--	--	--	--	9.81	5.06	4.75	--
MW-10	01/10/2005	<500	4,200 g	120,000	21,000	20,000	5,400	22,000	--	16,000	--	--	--	--	9.81	3.14	6.67	--
MW-10	04/13/2005	<1,000	9,100 g	83,000	22,000	13,000	5,500	18,000	--	22,000	--	--	--	--	9.81	3.12	6.69	--
MW-10	07/20/2005	<2,500	11,000 g	82,000	14,000	9,700	4,700	20,000	--	32,000	9,800	<500	<500	<500	9.81	5.33	4.48	--
MW-10	10/24/2005	<1,000	9,800 g	67,000	12,000	4,000	4,500	13,000	--	14,000	6,200	--	--	--	9.78	4.24	5.54	--
MW-10	01/04/2006	364 f	5,690 f	114,000	15,000	5,110	1,310	17,400	--	3,720	1,150	--	--	--	9.78	2.53	7.25	--
MW-10	07/26/2006	260	1,070	66,600	10,600	137	2,740	5,430	--	2,660	3,280	0.750	<0.500	<0.500	9.78	3.98	5.80	--
MW-10	01/02/2007	140 f	1,500 f	46,000	10,000	860	3,800	8,000	--	1,200	1,400	--	--	--	9.78	4.02	5.76	--
MW-10	07/12/2007	<250 f	3,900 f	28,000 m	7,700	160	2,100	2,960	--	1,200	2,600	<100	<100	<100	9.78	4.18	5.60	--
MW-10	01/10/2008	<250 f	4,700 f,o	31,000 m	10,000	75	2,800	3,270	--	1,400	2,000	--	--	--	9.78	4.34	5.44	--
MW-10	07/31/2008	<250 f	1,500 f,o	38,000	11,000	<100	1,800	970	--	3,100	7,500	<200	<200	<200	9.78	4.10	5.68	--
MW-10	01/06/2009	340 f	3,800 f,o	26,000	9,600	<100	2,300	790	--	1,600	2,300	--	--	--	9.78	4.25	5.53	--
MW-10	07/01/2009	<250 f	<50 f	17,000	6,100	<50	1,100	110	--	910	2,900	<100	<100	<100	9.78	4.27	5.51	--
MW-10	01/04/2010	<250 f	2,500 f,o	22,000	7,200	<100	1,000	<100	--	870	2,600	--	--	--	9.78	4.53	5.25	--
MW-10	01/18/2011	--	2,700 q	18,000	8,900	<100	1,500	<200	--	320	<2,000	<200	<200	<200	9.78	3.28	6.50	--
MW-10	01/05/2012	--	1,500 f	23,000 m	10,000	81	510	<100	--	230	<1,000	<100	<100	<100	9.78	3.86	5.92	--
MW-11	07/20/1993	--	ND	50	2.5	1.9	3.9	18	--	--	--	--	--	--	10.56	8.08	2.48	--
MW-11	10/18/1993	--	65	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	8.24	2.32	--
MW-11	01/06/1994	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	8.47	2.09	--
MW-11	04/12/1994	--	ND	ND	1.1	0.87	ND	1.5	--	--	--	--	--	--	10.56	8.44	2.12	--
MW-11	07/25/1994	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	8.20	2.36	--
MW-11	10/25/1994	--	100	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	8.67	1.89	--
MW-11	01/09/1995	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	7.63	2.93	--
MW-11	04/11/1995	--	140	ND	ND	0.7	ND	0.5	--	--	--	--	--	--	10.56	8.06	2.50	--
MW-11	07/18/1995	--	50	ND	ND	ND	ND	ND	--	--	--	--	--	--	10.56	9.31	1.25	--
MW-11	10/18/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	10.56	8.34	2.22	--
MW-11	01/09/1996	--	ND	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND	--	--	--	--	10.56	8.22	2.34	--
MW-11	04/02/1996	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	10.56	7.97	2.59	--
MW-11	10/03/1996	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	10.56	8.37	2.19	3.6
MW-11	04/03/1997	--	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	10.56	8.31	2.25	2.2
MW-11	10/08/1997	--	54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	10.56	8.56	2.00	1.2

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo	TPHd	TPHg	B	T	E	X	MTBE		MTBE				Depth to Water (ft MSL)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		($\mu\text{g}/\text{L}$)	8020	8260	TBA	DIPE	ETBE	TAME										
MW-11	06/10/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	7.85	2.71	
MW-11	12/30/1998	—	66.2	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	—	—	—	—	—	10.56	8.51	2.05	
MW-11	06/25/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	8.01	2.55	
MW-11	12/28/1999	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	10.56	8.39	2.17	
MW-11	05/31/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	7.38	3.18	
MW-11	10/17/2000	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	10.56	8.35	2.21	
MW-11	05/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	8.15	2.41	
MW-11	11/05/2001	Unable to locate		—	—	—	—	—	—	—	—	—	—	—	10.56	—	—	
MW-11	05/01/2002	Unable to locate		—	—	—	—	—	—	—	—	—	—	—	10.56	—	—	
MW-11	05/08/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	10.56	7.82	2.74	
MW-11	07/16/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	7.64	2.92	
MW-11	10/17/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	7.95	—	1.3/1.0
MW-11	01/21/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.57	—	—
MW-11	05/01/2003	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	7.62	—	—
MW-11	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.93	—	—
MW-11	10/02/2003	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	7.56	—	—
MW-11	01/05/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.03	—	—
MW-11	04/01/2004	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	7.55	—	—
MW-11	08/02/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.50	—	—
MW-11	11/02/2004	<500	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	7.41	—	—
MW-11	01/10/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.45	—	—
MW-11	04/13/2005	<500	84 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	7.35	—	—
MW-11	07/20/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	—	—
MW-11	10/24/2005	<500	66 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	10.06	7.72	2.34
MW-11	01/04/2006	<100 f	<100 f	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	—	—	—	—	10.06	6.55	3.51
MW-11	07/26/2006	914	105	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	10.06	7.37	2.69
MW-11	01/02/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.06	7.63	2.43
MW-11	07/12/2007	340 f	100 f	<50 m	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	10.06	7.18	2.88
MW-11	01/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.06	6.03	4.03
MW-11	07/31/2008	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	10.06	7.25	2.81
MW-11	01/06/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.06	8.03	2.03
MW-11	07/01/2009	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	10.06	7.62	2.44
MW-11	01/04/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.06	7.43	2.63
MW-11	01/18/2011	<480	<480	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	<1.0	10.06	7.03	3.03
MW-11	01/05/2012	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	10.06	—	—
MW-12	07/20/1993	—	1,500	ND	2.8	1.9	3.2	ND	—	—	—	—	—	—	—	9.56	6.76	2.80
MW-12	10/18/1993	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	9.56	7.12	2.44
MW-12	01/06/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	9.56	7.15	2.41

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE 8020 ($\mu\text{g/L}$)	MTBE 8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
MW-12	04/12/1994	—	ND	ND	0.61	ND	ND	1.1	—	—	—	—	—	—	9.56	6.68	2.88	—	
MW-12	07/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	9.56	6.83	2.73	—	
MW-12	10/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	9.56	7.34	2.22	—	
MW-12	01/09/1995	—	80 a	ND	ND	ND	ND	ND	—	—	—	—	—	—	9.56	5.02	4.54	—	
MW-12	04/11/1995	—	200	ND	ND	ND	ND	ND	—	—	—	—	—	—	9.56	7.38	2.18	—	
MW-12	07/18/1995	—	90	ND	ND	ND	ND	ND	—	—	—	—	—	—	9.56	8.50	1.06	—	
MW-12	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	6.63	2.93	—	
MW-12	01/09/1996	—	ND	<50	<0.5	<0.5	<0.5	<0.5	ND	—	—	—	—	—	9.56	6.32	3.24	—	
MW-12	04/02/1996	—	—	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	9.56	5.60	3.96	—	
MW-12	10/03/1996	—	72	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	9.56	3.30	6.26	2.5	
MW-12	04/03/1997	—	74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	9.56	6.13	3.43	2.2	
MW-12	10/08/1997	—	73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	9.56	6.49	3.07	3.0	
MW-12	06/10/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	5.85	3.71	—	
MW-12	12/30/1998	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	—	—	—	—	—	9.56	8.42	1.14	1.3/0.9	
MW-12	06/25/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	7.89	1.67	—	
MW-12	12/28/1999	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	9.56	8.26	1.30	1.0/1.2	
MW-12	05/31/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	7.21	2.35	—	
MW-12	10/17/2000	—	82.9 a	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	9.56	6.80	2.76	5.1/3.0	
MW-12	05/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	5.95	3.61	—	
MW-12	11/05/2001	Unable to locate	—	—	—	—	—	—	—	—	—	—	—	—	9.56	—	—	—	
MW-12	05/01/2002		—	—	—	—	—	—	—	—	—	—	—	—	9.56	—	—	—	
MW-12	05/08/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	9.56	4.75	4.81	1.2/0.9	
MW-12	07/16/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	9.56	4.88	4.68	—	
MW-12	10/17/2002	—	81	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	5.11	—	1.8/1.5	
MW-12	01/21/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.76	—	—	
MW-12	05/01/2003	—	95 a	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	5.00	—	—	
MW-12	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.85	—	—	
MW-12	10/02/2003	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	5.02	—	—	
MW-12	01/05/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.95	—	—	
MW-12	04/01/2004	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	5.04	—	—	
MW-12	08/02/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.42	—	—	
MW-12	11/02/2004	<500	150 h	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	4.55	—	—	
MW-12	01/10/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.81	—	—	
MW-12	04/13/2005	<500	120 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	4.01	—	—	
MW-12	07/20/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.00	—	—	
MW-12	10/24/2005	<500	94 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	9.09	4.83	4.26	—
MW-12	01/04/2006	675 f	330 f	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	—	—	—	—	9.09	5.52	3.57	—
MW-12	07/26/2006	153	<93.9	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	9.09	4.47	4.62	—
MW-12	01/02/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.09	5.70	3.39	—

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH_{mo}	TPH_d	TPH_g	B	T	E	X	MTBE		8260	TBA	DIPE	ETBE	TAME	TOC	Depth to Water	GW Elevation	DO Reading
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	8020	8260	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(\text{ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-12	07/12/2007	<250 f	63 f	<50 m	<0.50	<1.0	<1.0	<1.0	—	—	<1.0	—	—	—	—	9.09	5.03	4.06	—
MW-12	01/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.09	4.20	4.89	—
MW-12	07/31/2008	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	9.09	4.52	4.57	—
MW-12	01/06/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.09	4.79	4.30	—
MW-12	07/01/2009	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	9.09	5.70	3.39	—
MW-12	01/04/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.09	6.00	3.09	—
MW-12	01/18/2011	<480	<480	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	<1.0	9.09	5.61	3.48	—
MW-12	01/05/2012	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	9.09	—	—	—
MW-13	07/20/1993	—	1,500	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.32	1.78	—
MW-13 (D)	07/21/1993	—	1,000	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.32	1.78	—
MW-13	10/18/1993	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.66	1.44	—
MW-13	01/06/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.70	1.40	—
MW-13	04/12/1994	—	100	ND	1.7	1.2	0.59	2.4	—	—	—	—	—	—	—	10.10	8.20	1.90	—
MW-13	07/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.39	1.71	—
MW-13	10/25/1994	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	8.70	1.40	—
MW-13	01/09/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	7.35	2.75	—
MW-13	04/11/1995	—	320	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	5.50	4.60	—
MW-13	07/18/1995	—	ND	ND	ND	ND	ND	ND	—	—	—	—	—	—	—	10.10	6.63	3.47	—
MW-13	10/18/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	8.12	1.98	—
MW-13	01/09/1996	—	ND	<50	<0.5	<0.5	<0.5	<0.5	ND	—	—	—	—	—	—	10.10	7.74	2.36	—
MW-13	04/02/1996	—	—	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	—	10.10	6.30	3.80	—
MW-13	10/03/1996	—	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	—	—	—	—	—	—	10.10	6.50	3.60	3.0
MW-13	04/03/1997	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	10.10	7.58	2.52	2.0
MW-13	10/08/1997	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	10.10	8.17	1.93	1.0
MW-13	06/10/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	7.54	2.56	—
MW-13	12/30/1998	—	69.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	—	—	—	—	—	—	10.10	6.91	3.19	1.1/0.8
MW-13	06/25/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	6.31	3.79	—
MW-13	12/28/1999	—	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	10.10	6.65	3.45	0.8/1.0
MW-13	05/31/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	5.94	4.16	—
MW-13	10/17/2000	—	121 a	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	10.10	8.38	1.72	2.5/2.8
MW-13	05/01/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	7.65	2.45	—
MW-13	11/05/2001	Unable to locate		—	—	—	—	—	—	—	—	—	—	—	—	10.10	—	—	—
MW-13	05/01/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	10.10	6.80	3.30	3.5/3.5
MW-13	07/16/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.10	6.84	3.26	—
MW-13	10/17/2002	—	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	9.64	6.73	2.91	1.4/0.9
MW-13	01/21/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.64	6.99	2.65	—
MW-13	05/01/2003	—	<50	<50	3.4	0.75	1.1	2.7	—	<5.0	—	—	—	—	—	9.64	6.62	3.02	—
MW-13	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.64	5.99	3.65	—

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH _{mo}	TPH _d	TPH _g	B	T	E	X	MTBE		MTBE		TOC	Depth to Water	GW Elevation	DO Reading	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	8020	8260	TBA	DIPE	ETBE	(ft MSL)	(ft TOC)	(ft MSL)	(mg/L)
MW-13	10/02/2003	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	9.64	6.81	2.83	—
MW-13	01/05/2004	—	—	—	—	—	—	—	—	—	—	—	—	9.64	5.98	3.66	—
MW-13	04/01/2004	—	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	9.64	5.09	4.55	—
MW-13	08/02/2004	—	—	—	—	—	—	—	—	—	—	—	—	9.64	5.49	4.15	—
MW-13	11/02/2004	<500	<50	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	9.64	5.99	3.65	—
MW-13	01/10/2005	—	—	—	—	—	—	—	—	—	—	—	—	9.64	5.63	4.01	—
MW-13	04/13/2005	<500	72 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	9.64	6.00	3.64	—
MW-13	07/20/2005	—	—	—	—	—	—	—	—	—	—	—	—	9.64	8.31	1.33	—
MW-13	10/24/2005	<500	52 a	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	9.62	5.00	4.62	—
MW-13	01/04/2006	<100 f	<100 f	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	—	—	9.62	5.54	4.08	—
MW-13	07/26/2006	280	<93.9	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	9.62	4.92	4.70	—
MW-13	01/02/2007	—	—	—	—	—	—	—	—	—	—	—	—	9.62	7.37	2.25	—
MW-13	07/12/2007	<250 f	<50 f	<50 m	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	9.62	4.60	5.02	—
MW-13	01/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	9.62	4.32	5.30	—
MW-13	07/31/2008	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	9.62	7.10	2.52	—
MW-13	01/06/2009	—	—	—	—	—	—	—	—	—	—	—	—	9.62	4.95	4.67	—
MW-13	07/01/2009	<250 f	<50 f	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	9.62	6.79	2.83	—
MW-13	01/04/2010	—	—	—	—	—	—	—	—	—	—	—	—	9.62	7.55	2.07	—
MW-13	01/18/2011	<470	<470	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<1.0	<1.0	<1.0	9.62	5.52	4.10	—
MW-13	01/05/2012	Well inaccessible		—	—	—	—	—	—	—	—	—	—	9.62	—	—	—
VEW-5	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	2.91	—	—
VEW-5	10/17/2000	—	4,180 a	74,800	9,090	14,600	2,630	14,500	632	—	—	—	—	—	2.65	—	3.0/3.1
VEW-5	05/01/2001	—	5,350	94,800	11,300	12,900	4,520	22,200	419	—	—	—	—	—	2.86	—	0.4/0.6
VEW-5	11/05/2001	—	<1,600	82,000	14,000	7,400	2,900	15,000	—	740	—	—	—	—	4.11	—	0.6/c
VEW-5	05/01/2002	—	<3,000	16,000	610	320	7.9	3,600	—	310	—	—	—	—	2.63	—	4.7/2.9
VEW-5	07/16/2002	—	<3,000	45,000	7,900	2,700	1,000	4,600	—	920	—	—	—	—	2.96	—	0.4/0.3
VEW-5	10/17/2002	—	200	<50	<0.50	<0.50	<0.50	<0.50	—	46	—	—	—	—	8.81	3.55	5.26
VEW-5	01/21/2003	—	1,200	740	53	22	17	70	—	17	—	—	—	—	8.81	2.06	6.75
VEW-5	05/01/2003	—	1,000 a	1,500	140	92	120	290	—	11	—	—	—	—	8.81	2.34	6.47
VEW-5	07/17/2003	—	1,400 a,f	4,200	630	1,300	360	1,400	—	38	—	—	—	—	8.81	3.36	5.45
VEW-5	10/02/2003	—	3,500 a	10,000	690	1,200	420	1,800	—	54	—	—	—	—	8.81	3.65	5.16
VEW-5	01/05/2004	—	530 a	180	5.0	0.73	6.5	11	—	1.9	—	—	—	—	8.81	2.02	6.79
VEW-5	04/01/2004	—	2,500 a	2,800	520	23	260	290	—	55	—	—	—	—	8.81	2.77	6.04
VEW-5	08/02/2004	550	3,800 a	8,900	790	74	600	1,600	—	62	<100	<40	<40	<40	8.81	3.55	5.26
VEW-5	11/02/2004	<500	830 g	1,200	72	5.8	83	100	—	11	—	—	—	—	8.81	2.89	5.92
VEW-5	01/10/2005	700	320 a	<50	<0.50	<0.50	<0.50	2.0	—	0.56	—	—	—	—	8.81	1.14	7.67
VEW-5	04/13/2005	1,100	540 a	270	23	1.4	11	15	—	20	—	—	—	—	8.81	2.17	6.64
VEW-5	07/20/2005	<500	100 g	130	5.7	0.65	1.4	9.3	—	7.7	41	<2.0	<2.0	<2.0	8.81	4.39	4.42

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	MTBE										TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		8020	8260	TBA	DIME	ETBE	TAME									
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
VEW-5	10/24/2005	3,700	1	8,900	a	2,300	260	17	28	140	—	13	41	—	—	
VEW-5	01/04/2006	710	f	883	f	493	1.69	<0.500	2.72	6.19	—	<0.500	<10.0	—	—	
VEW-5	07/26/2006	744		299		860	15.8	2.49	2.55	8.77	—	3.69	<10.0	<0.500	<0.500	
VEW-5	01/02/2007	170	f	210	f	1,700	77	4.1	13	13	—	3.9	<5.0	—	—	
VEW-5	07/12/2007	390	f	710	f	1,000	m	85	3.6	2.0	12.5	—	6.3	10	<2.0	
VEW-5	01/10/2008	290	o	210	f,o	460	m	1.4	1.3	1.0	6.8	—	<1.0	<10	—	
VEW-5	07/31/2008	p	<250	f	180	f,o	170,000	14,000	370	690	1,650	—	1,900	<1,000	<200	
VEW-5	08/29/2008	1,800	f	720	f,o	1,600	110	4.6	5.1	13.4	—	<1.0	20	<2.0	<2.0	
VEW-5	01/06/2009	580	f	200	f,o	<50	2.0	1.4	<1.0	<1.0	—	1.4	<10	—	—	
VEW-5	07/01/2009	<250	f	95	f,o	86	6.6	<1.0	<1.0	2.2	—	9.3	25	<2.0	<2.0	
VEW-5	01/04/2010	300	f	150	f,o	<50	3.8	<1.0	<1.0	<1.0	—	<1.0	<10	—	—	
VEW-5	01/18/2011	500		<470		<50	3.5	<0.50	5.5	2.3	—	<1.0	<10	<1.0	8.79	
VEW-5	01/05/2012	170	f	170	f	60	m	1.1	<0.50	<1.0	—	1.7	<10	<1.0	<1.0	
VEW-6	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	
VEW-6	10/17/2000	—	—	4,820	a	63,800	6,940	2,750	2,760	18,700	3,700	—	—	—	—	
VEW-6	05/01/2001	—	—	3,460		57,000	6,280	697	2,640	15,800	6,240	—	—	—	—	
VEW-6	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	3.25	
VEW-6	11/05/2001	—	—	<1,300		39,000	6,800	380	1,900	7,900	—	8,800	—	—	—	
VEW-6	05/01/2002	—	—	<4,500		24,000	1,800	270	470	3,700	—	3,100	—	—	—	
VEW-6	07/16/2002	—	—	<2,700		19,000	1,900	250	140	3,500	—	2,900	—	—	—	
VEW-6	10/17/2002	—	—	110	<50	<0.50	<0.50	<0.50	<0.50	—	13	—	—	—	9.33	
VEW-6	01/21/2003	—	—	<500		900	30	1.1	20	61	—	110	—	—	9.33	
VEW-6	05/01/2003	—	—	290	a	1,100	a	41	<5.0	58	66	—	89	—	9.33	
VEW-6	07/17/2003	—	—	1,400	a,f	3,100	400	30	280	820	—	1,400	—	—	9.33	
VEW-6	10/02/2003	—	—	1,200	a	2,100	310	37	200	420	—	1,500	—	—	9.33	
VEW-6	01/05/2004	—	—	170	a	320	4.9	0.54	3.3	18	—	68	—	—	9.33	
VEW-6	04/01/2004	—	—	270	a	450	44	1.6	23	24	—	180	—	—	9.33	
VEW-6	08/02/2004	Well inaccessible	—	—	—	—	—	—	—	—	—	—	—	—	—	
VEW-6	11/02/2004	<500	—	210	g	910	35	1.4	39	79	—	74	—	—	9.33	
VEW-6	01/10/2005	<500	—	150	a	110	1.3	<0.50	1.3	3.3	—	4.7	—	—	9.33	
VEW-6	04/13/2005	1,000	b	330	a,b	98	10	<0.50	2.4	2.6	—	77	—	—	9.33	
VEW-6	07/20/2005	<500	—	<50		150	4.3	<0.50	1.1	7.1	—	7.8	37	<2.0	<2.0	
VEW-6	10/24/2005	1,600	1	3,300	a	4,800	150	4.6	280	720	—	120	160	—	9.22	
VEW-6	01/04/2006	1,010	f	1,260	f	1,010	2.67	<0.500	4.79	12.6	—	23.8	93.6	—	9.22	
VEW-6	07/26/2006	2,520		1,750		31,900	2,730	6,130	270	2,590	—	303	189	<0.500	69.4	
VEW-6	01/02/2007	6,700	f	4,900	f	6,100	42	740	89	850	—	25	51	—	9.22	
VEW-6	07/12/2007	1,400	f	1,700	f	2,900	m	220	83	94	430	—	140	180	<4.0	<4.0
VEW-6	01/10/2008	2,200	f	1,100	f,o	2,200	m	25	52	17	178	—	8.2	38	—	9.22

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH _{mo}	TPH _d	TPH _g	B	T	E	X	MTBE		MTBE				Depth to Water (ft MSL)	GW Elevation (ft MSL)	DO Reading (mg/L)	
		($\mu\text{g/L}$)	8020	8260	TBA	DIPE	ETBE	TAME										
VEW-6	07/31/2008	420 f	470 f,o	2,000	150	9.2	18	102	—	120	290	<2.0	<2.0	<2.0	9.22	3.43	5.79	
VEW-6	01/06/2009	3,000 f	1,600 f,o	780	120	5.3	11	20	—	61	180	—	—	—	9.22	3.37	5.85	
VEW-6	07/01/2009	1,200 f	680 f,o	690	95	4.5	12	30	—	17	180	<2.0	<2.0	<2.0	9.22	3.72	5.50	
VEW-6	01/04/2010	440 f	310 f,o	1,100	380	3.7	7.4	6.8	—	97	480	—	—	—	9.22	3.47	5.75	
VEW-6	01/18/2011	2,200	2,500	360	150	2.1	3.2	<4.0	—	53	220	<4.0	<4.0	<4.0	9.22	3.10	6.12	
VEW-6	01/05/2012	980 f	1,800 f	670 m	110	2.3	1.0	4.9	—	42	370	<1.0	<1.0	<1.0	9.22	3.43	5.79	
VEW-7	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	3.59	—	—	
VEW-7	10/17/2000	—	3,990 a	74,300	11,900	12,500	1,640	15,500	36,600	—	—	—	—	—	—	3.72	—	3.5/4.1
VEW-7	05/01/2001	—	1,930	46,000	7,250	5,300	1,960	9,820	15,600	16,900	—	—	—	—	—	3.40	—	0.8/0.8
VEW-7	05/29/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.54	—	2.5/1.4
VEW-7	11/05/2001	—	<900	38,000	9,300	610	1,700	6,000	—	21,000	—	—	—	—	—	4.85	—	3.52/c
VEW-7	05/01/2002	—	<600	590	6.3	7.2	<2.5	81	—	1,100	—	—	—	—	—	2.62	—	2.9/3.3
VEW-7	07/16/2002	—	54	95	1.5	<0.50	1.5	6.1	—	100	—	—	—	—	—	3.84	—	3.6/2.5
VEW-7	10/17/2002	—	110	<50	1.4	<0.50	<0.50	<0.50	—	34	—	—	—	—	9.49	4.93	4.56	3.0/1.9
VEW-7	01/21/2003	—	180	<50	0.88	<0.50	<0.50	4.2	—	19	—	—	—	—	9.49	3.27	6.22	0.3/0.8
VEW-7	05/01/2003	—	1,000 a	2,200	62	8.0	230	80	—	360	—	—	—	—	9.49	2.95	6.54	—
VEW-7	07/17/2003	—	590 a,f	<1,200	97	19	150	110	—	830	—	—	—	—	9.49	3.94	5.55	—
VEW-7	10/02/2003	—	1,300 a	800	78	11	170	49	—	1,200	—	—	—	—	9.49	5.00	4.49	—
VEW-7	01/05/2004	—	970 a	2,500	120	13	86	300	—	660	—	—	—	—	9.49	2.82	6.67	—
VEW-7	04/01/2004	—	1,500 a	4,700	100	42	240	680	—	830	—	—	—	—	9.49	2.99	6.50	—
VEW-7	08/02/2004	<500	830 a	1,100	60	6.5	30	120	—	920	430	<20	<20	<20	9.49	4.45	5.04	—
VEW-7	11/02/2004	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	9.49	—	—	—
VEW-7	11/04/2004	<500	2,700 g	7,900	410	26	280	1,100	—	2,100	—	—	—	—	9.49	3.57	5.92	—
VEW-7	01/10/2005	<500	690 g	1,200	110	<5.0	49	73	—	530	—	—	—	—	9.49	2.26	7.23	—
VEW-7	04/13/2005	530	280 a	760	18	3.3	28	84	—	120	—	—	—	—	9.49	2.28	7.21	—
VEW-7	07/20/2005	<500	250 g	160	4.8	0.57	1.9	11	—	9.3	37	<2.0	<2.0	<2.0	9.49	4.50	4.99	—
VEW-7	10/24/2005	6301	1,100 a	540	11	1.7	2.8	11	—	36	490	—	—	—	9.43	3.74	5.69	—
VEW-7	01/04/2006	305 f	386 f	<50.0	<0.500	<0.500	<0.500	<0.500	—	7.68	96.7	—	—	—	9.43	1.93	7.50	—
VEW-7	07/26/2006	803	383	1,140	31.2	2.92	6.09	42.1	—	87.3	257	<0.500	<0.500	<0.500	9.43	3.77	5.66	—
VEW-7	01/02/2007	220 f	230 f	1,100	8.5	0.79	4.4	11	—	18	180	—	—	—	9.43	3.47	5.96	—
VEW-7	07/12/2007	<250 f	480 f	860 m	17	1.6	3.0	46.1	—	37	240	<2.0	<2.0	<2.0	9.43	3.60	5.83	—
VEW-7	01/10/2008	<250 f	250 f,o	510 m	6.8	0.91 n	0.95 n	8.28 n	—	20	280	—	—	—	9.43	2.69	6.74	—
VEW-7	07/31/2008	<250 f	260 f,o	1,500	11	1.3	3.6	48.6	—	45	340	<2.0	<2.0	<2.0	9.43	3.65	5.78	—
VEW-7	01/06/2009	400 f	420 f,o	680	5.4	1.6	9.2	28	—	27	360	—	—	—	9.43	3.70	5.73	—
VEW-7	07/01/2009	<250 f	210 f,o	440	5.2	1.2	3.9	17	—	25	300	<2.0	<2.0	<2.0	9.43	3.74	5.69	—
VEW-7	01/04/2010	<250 f	130 f,o	150	1.9	<1.0	<1.0	3.3	—	13	400	—	—	—	9.43	3.61	5.82	—
VEW-7	01/18/2011	—	<480	280	5.6	0.69	0.99	3.7	—	8.4	310	<1.0	<1.0	<1.0	9.43	3.16	6.27	—
VEW-7	01/05/2012	—	90 f	<500 m	<0.50	<0.50	<0.50	<1.0	—	9.0	450	<1.0	<1.0	<1.0	9.43	3.74	5.69	—

TABLE 1

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**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHmo ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE 8020 ($\mu\text{g/L}$)	MTBE 8260 ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
AS-1	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.67	—	—
AS-1	10/17/2000	—	3,280 a	13,400	1,600	82.8	<20.0	2,600	498	—	—	—	—	—	—	5.50	—	20/2.5
AS-1	05/01/2001	Well inaccessible	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AS-1	11/05/2001	—	<900	5,300	85	26	46	120	—	190	—	—	—	—	—	6.11	—	0.4/0.5
AS-1	05/01/2002	Well inaccessible	—	—	—	—	—	—	—	—	—	—	—	—	—	14.73	—	—
AS-1	07/16/2002	—	<150	210	8.2	<0.50	7.9	3.5	—	25	—	—	—	—	—	5.59	—	4.6/2.8
AS-1	10/17/2002	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	8.23	—	—	—
AS-1	01/21/2003	—	220	<50	0.62	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	8.23	9.51	-1.28	22/2.5
AS-1	05/01/2003	—	96 a	79	2.2	0.99	5.1	4.8	—	<5.0	—	—	—	—	8.23	5.75	2.48	—
AS-1	07/17/2003	—	79 a,f	<50	1.2	0.60	0.95	1.7	—	3.6	—	—	—	—	8.23	5.90	2.33	—
AS-1	10/02/2003	—	99 a	440	12	49	22	94	—	3.5	—	—	—	—	8.23	5.90	2.33	—
AS-1	01/05/2004	—	76 a	<50	0.75	<0.50	0.70	<1.0	—	2.4	—	—	—	—	8.23	5.64	2.59	—
AS-1	04/01/2004	—	<50	<50	0.79	<0.50	<0.50	<1.0	—	3.2	—	—	—	—	8.23	5.86	2.37	—
AS-2	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.38	—	—
AS-2	10/17/2000	—	1,380 a	4,380	167	<10.0	225	680	315	—	—	—	—	—	—	5.50	—	3.1/3.0
AS-2	05/01/2001	Well inaccessible	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AS-2	11/05/2001	—	<300	2,200	100	0.99	91	21	—	220	—	—	—	—	—	5.99	—	0.8/0.6
AS-2	05/01/2002	—	<300	880	19	<0.50	31	22	—	57	—	—	—	—	—	5.25	—	1.0/0.8
AS-2	07/16/2002	—	<200	910	40	4.1	39	43	—	78	—	—	—	—	—	5.53	—	0.7/0.9
AS-2	10/17/2002	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	8.65	—	—	—
AS-2	01/21/2003	—	140	<50	1.4	<0.50	2.0	0.94	—	19	—	—	—	—	8.65	9.32	-0.67	14/1.6
AS-2	05/01/2003	—	120 a	56	2.1	<0.50	4.7	<1.0	—	12	—	—	—	—	8.65	6.74	1.91	—
AS-2	07/17/2003	—	80 a,f	180	11	0.56	34	13	—	23	—	—	—	—	8.65	6.40	2.25	—
AS-2	10/02/2003	—	190 a	320	8.5	6.3	24	25	—	21	—	—	—	—	8.65	6.20	2.45	—
AS-2	01/05/2004	—	160 a	210	1.4	<0.50	21	1.6	—	15	—	—	—	—	8.65	6.32	2.33	—
AS-2	04/01/2004	—	130 a	200	0.87	<0.50	17	<1.0	—	18	—	—	—	—	8.65	6.15	2.50	—
AS-3	09/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.75	—	—
AS-3	10/17/2000	—	942 a	3,520	588	521	41.2	566	1,740	—	—	—	—	—	—	6.18	—	3.1/3.0
AS-3	05/01/2001	Well inaccessible	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AS-3	11/05/2001	—	110	1,600	41	4.9	8.2	30	—	240	—	—	—	—	—	6.41	—	1.1/3.2
AS-3	05/01/2002	Insufficient water	—	—	—	—	—	—	—	—	—	—	—	—	—	14.90	—	—
AS-3	07/16/2002	Well dry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AS-3	10/17/2002	Insufficient water	—	—	—	—	—	—	—	—	—	—	—	—	8.84	14.78	-5.94	—
AS-3	01/21/2003	—	320	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	8.84	11.59	-2.75	22/1.1
AS-3	05/01/2003	—	150 a	57	0.53	<0.50	4.7	2.7	—	<5.0	—	—	—	—	8.84	6.44	2.40	—
AS-3	07/17/2003	—	110 a,f	<50	0.83	2.1	2.4	5.4	—	2.5	—	—	—	—	8.84	6.55	2.29	—

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	MTBE										Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)				
		TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	8020 (µg/L)	8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)			
AS-3	10/02/2003	—	96 a	<50	2.9	3.9	8.4	15	—	8.1	—	—	—	—	8.84	6.55	2.29	—
AS-3	01/05/2004	—	120 a	<50	<0.50	<0.50	<0.50	<1.0	—	1.5	—	—	—	—	8.84	6.47	2.37	—
AS-3	04/01/2004	—	110 a	<50	<0.50	<0.50	<0.50	<1.0	—	2.8	—	—	—	—	8.84	6.32	2.52	—

Notes:

TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015M.

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015M.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8015 unless otherwise noted..

BTEx = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

TBA = Tertiary-butyl alcohol, analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether, analyzed by EPA Method 8260B

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

DO = Dissolved oxygen

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

<x = Not detected at reporting limit x

— = Not analyzed or not available

(D) = Duplicate sample

x/x = DO reading; pre-purge/post-purge.

TOB = Top of well box elevation

a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = Sample analyzed outside of EPA-recommended holding time.

c = Post-purge DO reading not collected.

d = Laboratory did not record detected result.

e = Change in TOC due to wellhead maintenance.

f = Analysis with Silica Gel Cleanup.

g = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.

h = Hydrocarbon reported is in the late Diesel range and does not match the laboratory's standard.

i = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

l = Quantity of unknown hydrocarbon(s) in sample based on motor oil.

m = Analyzed by EPA Method 8015B (M).

n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Well ID	Date	TPH _{mo} ($\mu\text{g/L}$)	TPH _d ($\mu\text{g/L}$)	TPH _g ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE	MTBE	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
									8020	8260						(ft)	(ft)	(mg/L)

o = The sample chromatographic pattern for TPG does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

p = Samples for wells MW-9 and VEW-5 on 7/31/08 appear to have been switched and were re-sampled 8/29/08.

q = Hydrocarbon result partly due to individual peak(s) in quantitation range.

r = All diesel and motor oil samples for this event were lost in laboratory fire.

s = Sample container contained headspace

All site wells except MW-11 and MW-12 surveyed on March 18, 2002 by Virgil Chavez Land Surveying

Wells MW-1 through MW-4, MW-6, MW-9 through MW-13, VEW-5, VEW-6, and VEW-7 surveyed on September 27, 2005 by Virgil Chavez Land Surveying

Table 2
Groundwater Analytical Data
TPH-g, BTEX compounds, TPH-d, and oil and grease

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Sample	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH-d (ppb)	Oil and Grease (ppb)
SLH-1	02/12/92	NA	NA	NA	NA	NA	460,000	720,000
SLH-2	02/12/92	NA	NA	NA	NA	NA	370,000	400,000
SLH-3W	04/21/92	88,000	6,100	2,400	780	1,700	NA	NA
DW-1	05/20/92	87,000	18,000	19,000	5,700	22,000	11,000	NA

ppb = Parts per billion
NA = Not Analyzed
* = The positive result for petroleum hydrocarbon as diesel appears to be a combination of heavier and lighter hydrocarbons, rather than diesel.

CAMBRIA

Table 2. Water Analytical Data - Shell-branded Service Station - Incident #98995749, 285 Hegenberger Rd., Oakland, California

Sample ID	TPHg ↔	TPHd	MTBE	Benzene (ppb)	Toluene	Ethylbenzene	Xylenes
March 18, 1999 Samples:							
SB-1	<50.0	182	86.3	<0.500	<0.500	<0.500	<0.500
SB-2	3,650	1,290	33.9	4.96	<0.500	3.11	2.76
SB-3	16,500	5,080	180(<5.00)	268	8.11	901	1,400

Notes and Abbreviations:

ppb = parts per billion

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses represents MTBE by EPA Method 8260B.

Benzene, ethylbenzene, toluene, xylenes by EPA Method 8020.

<n = Below detection limit of n mg/kg

CAMBRIA

Table 1. Existing Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC ¹ (ft msl)	Total Boring Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Elev (ft msl)	Diam. (in)	Screen Top	Screen Depth (fbg) Bottom	Comments
MW-1	Monitoring Well/HSA	14-Feb-89	9.37	16.5	5	6	3.37	4	5	10	
MW-2	Monitoring Well/HSA	15-Feb-89	10.07	16.5	5	6	4.07	4	5	10	
MW-3	Monitoring Well/HSA	14-Feb-89	10.58	16.5	5	6	4.58	4	5	10	
MW-4	Monitoring Well/HSA	28-Apr-89	9.83	14	5	7	2.83	4	5	10	
MW-6	Monitoring Well/HSA	28-Apr-89	9.14	12	5	5.5	3.64	4	5	10	
MW-8	Monitoring Well/HSA	28-Apr-89	-	12	5	9	-	4	5	10	
MW-9	Monitoring Well/HSA	13-Jul-89	10.04	10.5	5	6	4.04	4	5	10	
MW-10	Monitoring Well/HSA	16-Nov-89	9.78	13	5	6.5	3.28	4	5	10	
MW-11	Monitoring Well/HSA	8-Jun-93	10.06	15.5	5	8.5	1.56	4	4	14	
MW-12	Monitoring Well/HSA	8-Jun-93	9.09	15.5	5	8.5	0.59	4	5	15	
MW-13	Monitoring Well/HSA	10-Jun-93	9.62	15.5	5	8.5	1.12	4	5	15	
VEW-1	Vapor Ext. Well/HA	21-Nov-91	-	7	5	6	-	4	3.5	6.5	
VEW-2	Vapor Ext. Well/HSA	9-Jun-93	8.87	8.5	5	4.5	4.37	2	3.5	6.5	
VEW-2	Sparge Well/HSA	9-Jun-93	-	8.5	5	4.5	-	2	7.5	8.5	
VEW-3	Vapor Ext. Well/HSA	9-Jun-93	9.21	10	5	4.5	4.71	2	3.5	6.5	
VEW-3	Sparge Well/HSA	9-Jun-93	-	10	5	4.5	-	2	7.5	8.5	
VEW-4	Vapor Ext. Well/HSA	9-Jun-93	9.26	9.5	5	5	4.26	2	3.5	6.5	
VEW-4	Sparge Well/HSA	9-Jun-93	-	9.5	5	5	-	2	8	9	
VEW-5	Vapor Ext. Well/HSA	28-Jun-00	8.79	10	5	4	4.79	4	3	10	
AS-1	Sparge Well/HSA	-	-	15			-	2	13	15	
VEW-6	Vapor Ext. Well/HSA	28-Jun-00	9.22	10	5	4	5.22	4	3	10	
AS-2	Sparge Well/HSA	-	-	15			-	2	13	15	
VEW-7	Vapor Ext. Well/HSA	28-Jun-00	9.43	10	5	4	5.43	4	3	10	
AS-3	Sparge Well/HSA	-	-	15			-	2	13	15	

Abbreviations:

HSA = Hollow stem auger

Ext. = Extraction

HA = Hand auger

TOC = Top of casing

ft msl = Feet referenced to mean sea level

fbg = Feet below grade

ft = Feet

in = Inches

GW = Groundwater

CAMBRIA

Table 1. Existing Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC ¹ (ft msl)	Total Boring Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Screen Diam. (in)	Screen Depth (fbg) Top	Comments
Diam. = Diameter									
1. TOC elevations from October 11, 2005 monitoring well survey report, Virgil Chavez Land Surveying.									

LOG OF BORING NO. MW-1

DATE DRILLED: 2/14/89		ELEVATION		WL TAKEN: 2-14-89		EQUIPMENT: Hollow Stem Auger			
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		TESTS
				hard			0-2" ASPHALT, 2"-12" BASE ROCK		
				dry	firm	brown to black	SANDY SILT CLAYEY SAND and GRAVEL SP/GP [F11]		ML
0				wet	loose	gray-black	CLAYEY fine SAND (Bay Mud) Some gasoline odor		SW
5									SP
10			moist						CH
15			slight damp				CLAY (Bay Mud) No gasoline odor		
20									
							SANDY CLAY Trace of gravel		CH/CL
							Bottom of Hole at 16.5 ft.		

SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

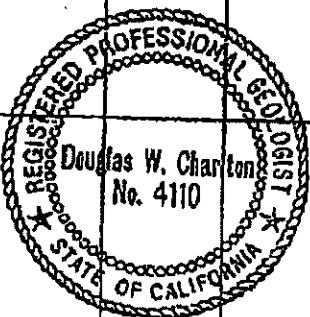
A-3



Converse Environmental Consultants California

ATTACHMENT 6

LOG OF BORING NO. MW-2

DATE DRILLED: 2/15/89		ELEVATION:		WL TAKEN: 2-15-89		EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	TOTAL PERIODIC INVESTIGATIONS	TESTS
-				hard			0-2" ASPHALT; 2-6" BASEROCK				
-				dry	medium dense	brown	SILTY SAND and GRAVEL SM/GM (F111)				
5	D	▼		slightly damp	soft to medium	gray	SANDY CLAY (F111) CL				
8	D			wet	soft	dark gray	CLAYEY SAND (Bay Mud) SP/CL Trace of gravel				
10	D						SANDY CLAY (Bay Mud) CL				
15	D			moist	soft, firmer with depth	gray	CLAY (Bay Mud) CH				
20							SANDY CLAY				
				 REGISTERED PROFESSIONAL GEOLOGIST Douglas W. Charlton No. 4110 STATE OF CALIFORNIA		Bottom of Hole at 16.5 ft.					

SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

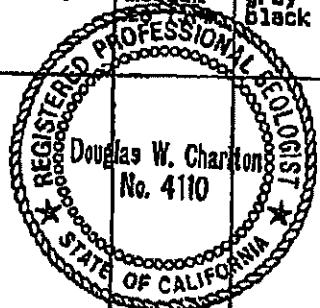
Drawing No.
A-4



Converse Environmental Consultants California

LOG OF BORING NO. MW-3

DATE DRILLED: 2/14/89		ELEVATION:		HL TAKEN: 2-14-89		EQUIPMENT: Hoffer Stem Auger				
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
				hard			0-2" ASPHALT; 2-12" BASE ROCK			
				moist	medium dense	brown to black	CLAYEY SAND and GRAVEL (F111) SP/GP	CH		
5	D			moist	soft	brown	SILTY SAND and GRAVEL (F111) SN/GP			
				wet	soft	black	CLAYEY SAND (F111) CL			
							SILTY CLAY (Bay Mud) Some fine sand			
10	D			sat.	soft, firmer with depth		CLAY (Bay Mud) CH			
15	D			moist	medium	gray-black				
20							Bottom of Hole at 16.5 ft.			



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



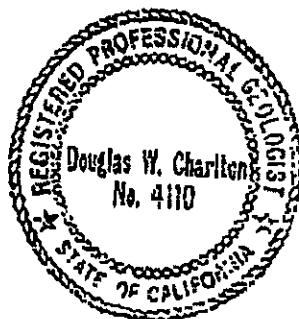
Converse Environmental Consultants California

Drawing No.

A-5

LOG OF BORING NO. MW-4

DATE DRILLED: 4/28/89			ELEVATION			ML TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BALST.	T-PH Na/Cl	TESTS
			O O O O	moist	medium	brown	Import Top Soil					
				moist	medium	brown	CLAYEY SAND and rock fragment (Fill)		SC			
5				moist	medium	brown-gray	Mix SILTS and SANDS Trace dry Bay Mud		ML-SH	7		
				very moist			Lenses and pockets silts, sand, clayey silt, trace organics			12		
				wet	loose		Lenses and layers of silts, fine sands			3		
				very moist	soft	light gray	BAY MUD		CH	1		
						dark gray	Calcareous, trace vertical organics			8		
					medium							
					stiff							
					gray		Calcareous SILTY CLAY		CL	20		
15							Bottom of Hole at 14 ft.					
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



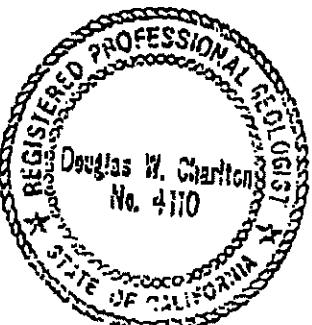
Converse Environmental Consultants California

Drawing No.

A-1

LOG OF BORING NO. MW-5

DATE DRILLED: 4/27/89		ELEVATION: N/A		NL TAKEN: 4-27-89		EQUIPMENT: Hollow Stem Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLKS/FT.	T.P.H Nt/Kg	TESTS
				slightly moist			ASPHALT: i-1/2", base: 6"					
				medium dense	light brown to yellow-brown		CLAYEY SAND Little rock fragments		SC			
				slightly moist	stiff	gray	SILTY CLAY Packet of bay mud					
0				slightly moist	medium dense	brown	Fine to coarse SAND		SP			
5							Layer coarse sand to pea gravels			23		
10				wet			Lenses fine to medium sand			8		
				very moist	soft	gray	CLAYEY SILT		ML			
				wet			Sand lens					
							CLAYEY SILT			7		
							Fine sandy silt			1		
10							SILTY CLAY (Bay Mud)		CH			
							Trace vertical organics			4		
							Trace of calcareous SILTY CLAY			10		
15							Bottom of Hole at 14 ft.					
20												



SHELL OIL COMPANY
265 Hagenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-2

LOG OF BORING NO. MW-6

DATE DRILLED: 4/28/89			ELEVATION N/A			WL TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SIMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BARS/FT.	LEH. HRNG	TESTS
			O	moist	loose	brown	Import Top Soil					
			O	moist	loose	yellow-brown	CLAYEY SAND and Rock fragments Trace cobble size fragments		SC			
							Sandy clay, trace rock fragments					
5				very moist	soft	gray	CLAYEY SILTS Layer pea gravel possible floating product		M	23		
							Layer fine to medium sand					
							Layer coarse sand, pea gravel					
							Fine to medium SAND		SP-72			
10				wet			Clayey silt, trace fine sands					
							Fine sandy silts					
							Bay Mud, trace organics		CH	4		
							Bottom of Hole at 12 ft.					
15												
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



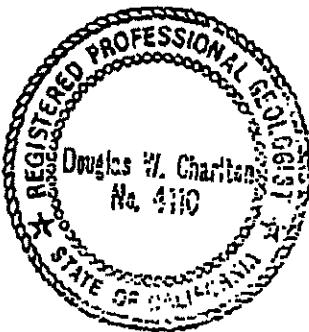
Converse Environmental Consultants California

Drawing No.

A-3

LOG OF BORING NO. MW-7

DATE DRILLED: 4/27/89			ELEVATION N/A		ML TAKEN: 4-27-89		EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BURS/FT.	T.P.H. Kg/Kg	TESTS
-				very moist	stiff	brown	SILTY CLAY (Fill)	CL				
-				wet	stiff		Zone of coarse size rock fragment	GP				
-				very moist	stiff	black	SILTY CLAY Mix with sandy clays	CL				
-						gray-brown						
0				very moist	soft to medium	gray	SILT & SAND, SILTY CLAY ML-CL Strong odor	ML		5		
5				wet			Fine SANDY SILT	ML		9		
0				v. moist			Fine SANDY SILT to fine SAND Trace silt	ML				
-				wet			CLAYEY SILT	ML				
-				very moist to wet			Bay Mud, some peat. Grades CH to Bay Mud	CH		2		
10										10		
0							Calcareous SILTY CLAY Trace vertical organics	CL		12		
15							Bottom of Hole at 14 ft.					
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

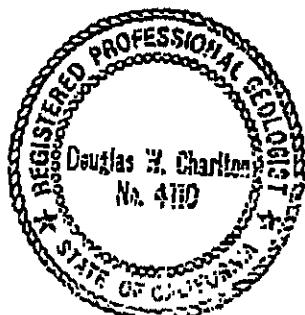


Converse Environmental Consultants California

Drawing No.
A-4

LOG OF BORING NO. MN-8

DATE DRILLED: 4/28/89			ELEVATION:			WL TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H kg/m ³	TESTS
				moist	medium	brown	Import Top Soil CL. Silt and Clay with fine Sand					
				moist	medium dense	yellow-brown	CLAYEY SAND SC With rock fragments (Fill)					
						brown	SANDY CLAY With rock fragments (Fill)					
0				moist	medium dense	gray	CLAYEY SILT		M	11		
5							Pockets and lenses of silts, fine sands, and clayey silts					
10				wet	loose	dk. gray	SILTY Fine SAND		SH	5		
10				wet	soft	gray	BAY MUD CH Trace organics		CH	5		
10						dark gray						
12							Bottom of Hole at 12 ft.					
15												
20												



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-5

LOG OF BORING NO. MW-9

DATE DRILLED: 7-13-89			ELEVATION:		ML TAKEN: 7-13-89		EQUIPMENT: 6-1/4"x 10" Hollow Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WEIGHT CONSTRUCTION	G.S.FT.	O.V.W. [ppm]	T.P.H. [ppm]
				slightly moist to moist	medium	brown	Crush ROCK 2" Plastic, [topsoil]					
				moist	stiff	gray	Silty CLAY Clayey SILT ML/CL [topsoil]					
1				s. moist	medium	light gray	Clayey SILT Strong odor		ML	7	320	
5				moist		gray	Fine Sandy SILT		ML	8	450	
2				wet			Silty SAND					
3				wet		mottled gray	Bay Mud (tidial zone) CH/OH			6	112	
4							Trace calcareous with depth			5	40	
10							Bottom of Hole at 10.5 ft.					
15												
20												

Project No.

88-44-359-01

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Drawing No.

A-7



Converse Environmental Consultants California

LOG OF BORING NO. MW-10

DATE DRILLED: 11-15-89 ELEVATION: n/a HL TAKEN: n/a EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WEIL CONSTRUCTION	BURNS&FT.	D.V.M. (ppm)	T.P.H. (ppm)
				sl moist	m dense	gray	GRAVEL sub-base. (Fill) GM				
				moist		yellow brown	Silty SAND. (Fill)	ML			
					medium	green	Sandy CLAY, trace Gravel. SC		0		
						black	Silty CLAY, trace Gravel. CL (Fill) Odor.		2		
								SM			
1				very moist	medium dense	dark gray	Silty SAND, trace Clay.		8	35	
5		Y			medium	gray	Silty CLAY, wet Sandy SP lenses. Green staining. Odor.	CL	11	-	
				wet	soft		Silty CLAY, trace brown organics.		11	50	
					soft	black	Silty CLAY, trace organics. Bay Mud.	CH	5		
						black mottled gray			7	3	
10									4		
									4	0	
									4		
									7	0	
							Total Depth of Boring: 13 ft Below Ground Surface.				
15											
20											

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental West

Drawing No.

A-4

LOG OF BORING NO. VEW-1

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvillhaug	Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:						
DEPTH (FT)	SAMPLE	WATER LEVEL	SAMPLE SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6'	PERCENT RECOVERY
0					Asphalt and Base					
2					Silty Clay	CL	slightly moist	gray/black		
4					Sandy Clay	CL	moist	gray/black		
5					Clayey pebbly Sand	SC	very moist	black		
7					Total Depth of Boring: 7 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

Drawing No.

A-2



Converse Environmental West

LOG OF BORING NO. VM-2

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvillhaug			Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:				
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base					
					Silty Clay	CL	slightly moist	gray/black		
5					Medium Sand	SP	very moist	gray/black		
					Clayey fine Sand	SC	very moist	black		
					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

Drawing No.

A-3



Converse Environmental West

LOG OF BORING NO. VM-3

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A				Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvihaug	Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6'	PERCENT RECOVERY
					Asphalt and Base					
					Silty Clay	CL	slightly moist	gray green		
					Fine Sand	SW		black		
					Clayey fine Sand	SC	very moist	gray		
5					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

Drawing No.



Converse Environmental West

A-4

LOG OF BORING NO. VM-4

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvivilaug	Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
0					Asphalt and Base					
1					Silty Clay, some organics	CL	slightly moist	black		
2					Clay with organics	CL	moist	black		
3					Sandy Clay	CL	very moist	black		
4					Total Depth of Boring: 7 ft.					
5					Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

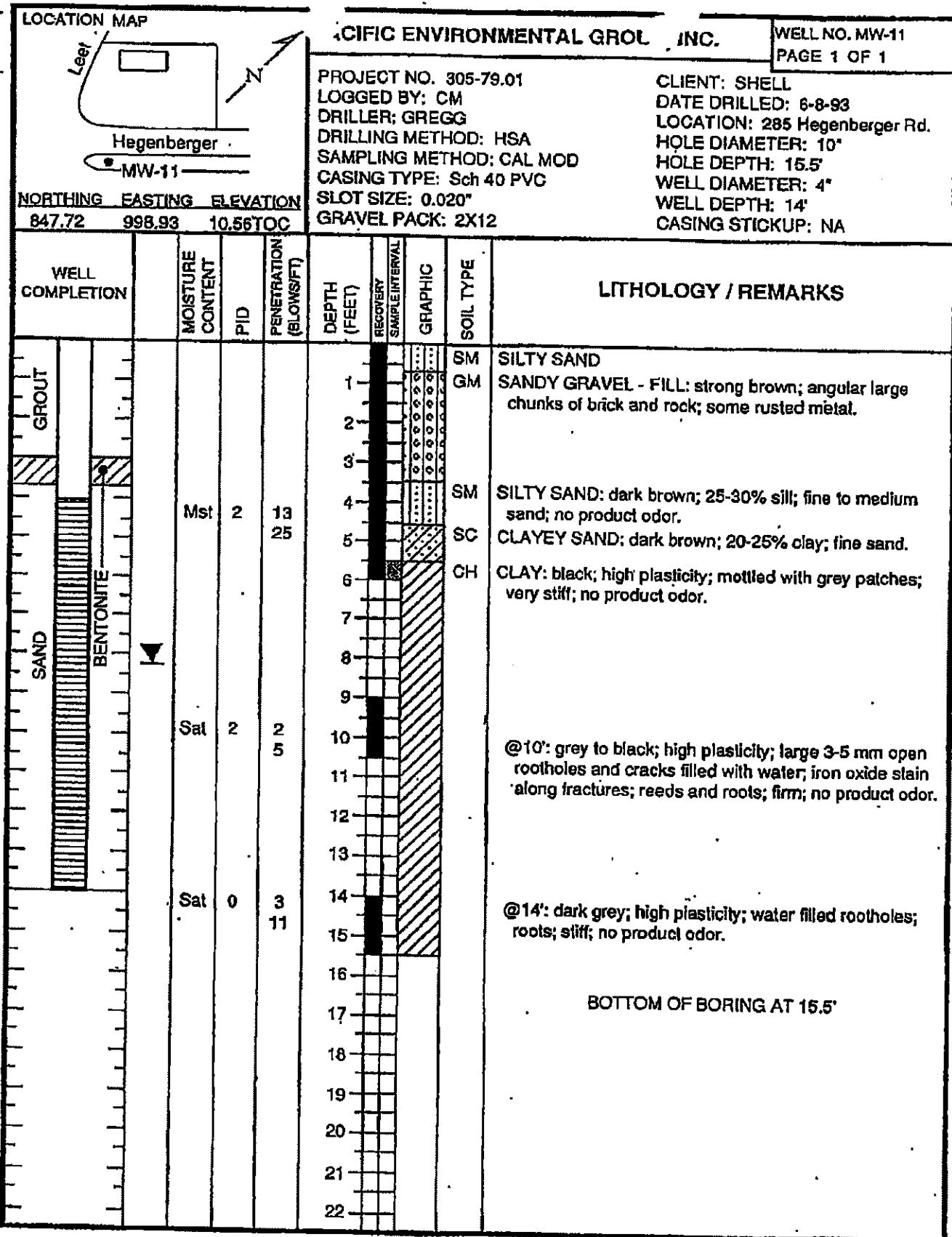
88-44-359-20



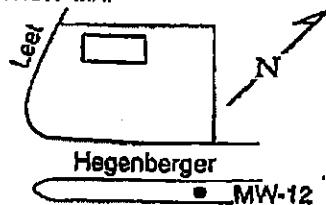
Converse Environmental West

Drawing No.

A-5



LOCATION MAP



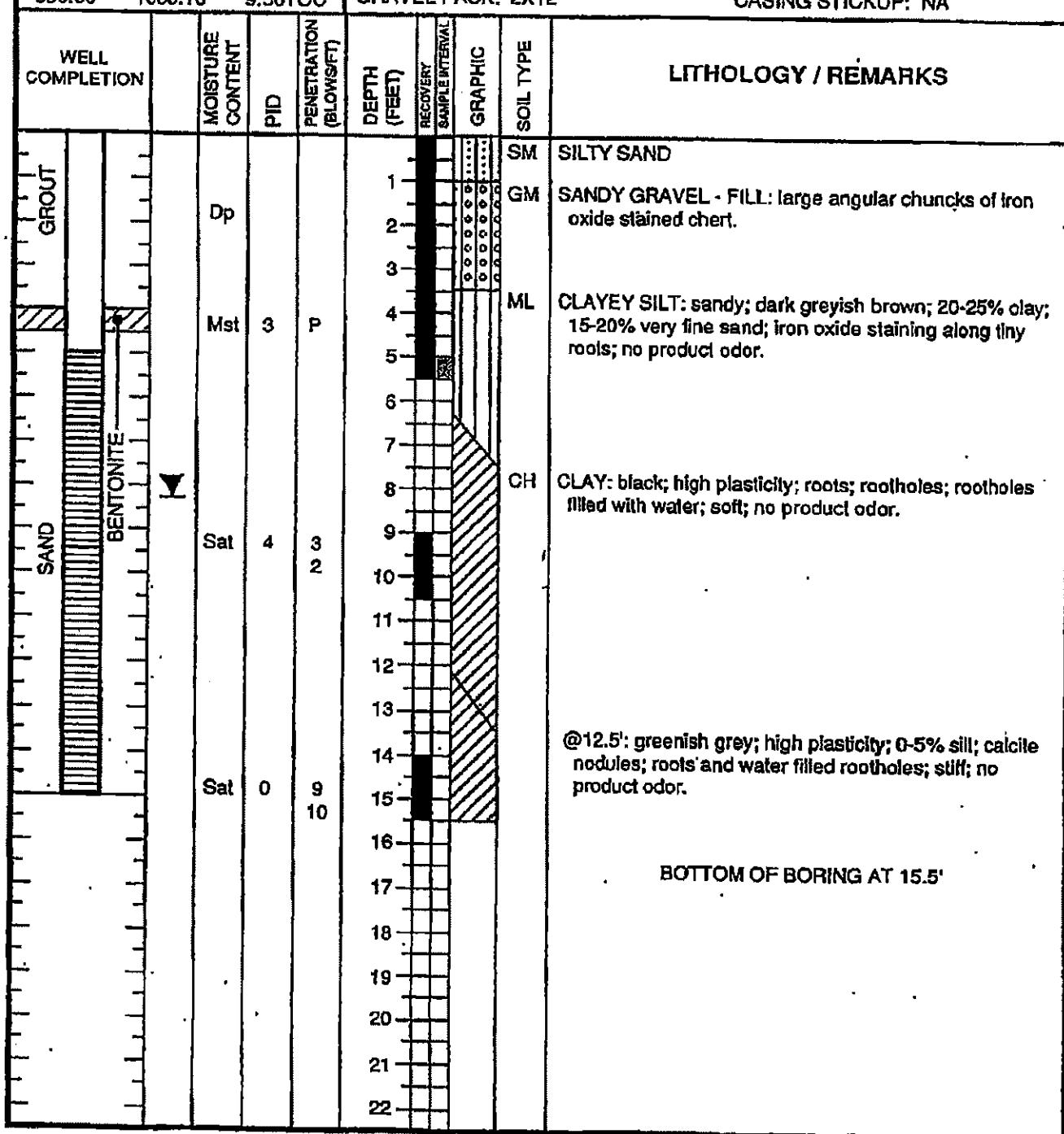
NORTHING EASTING ELEVATION
995.66 1088.10 9.56 TOC

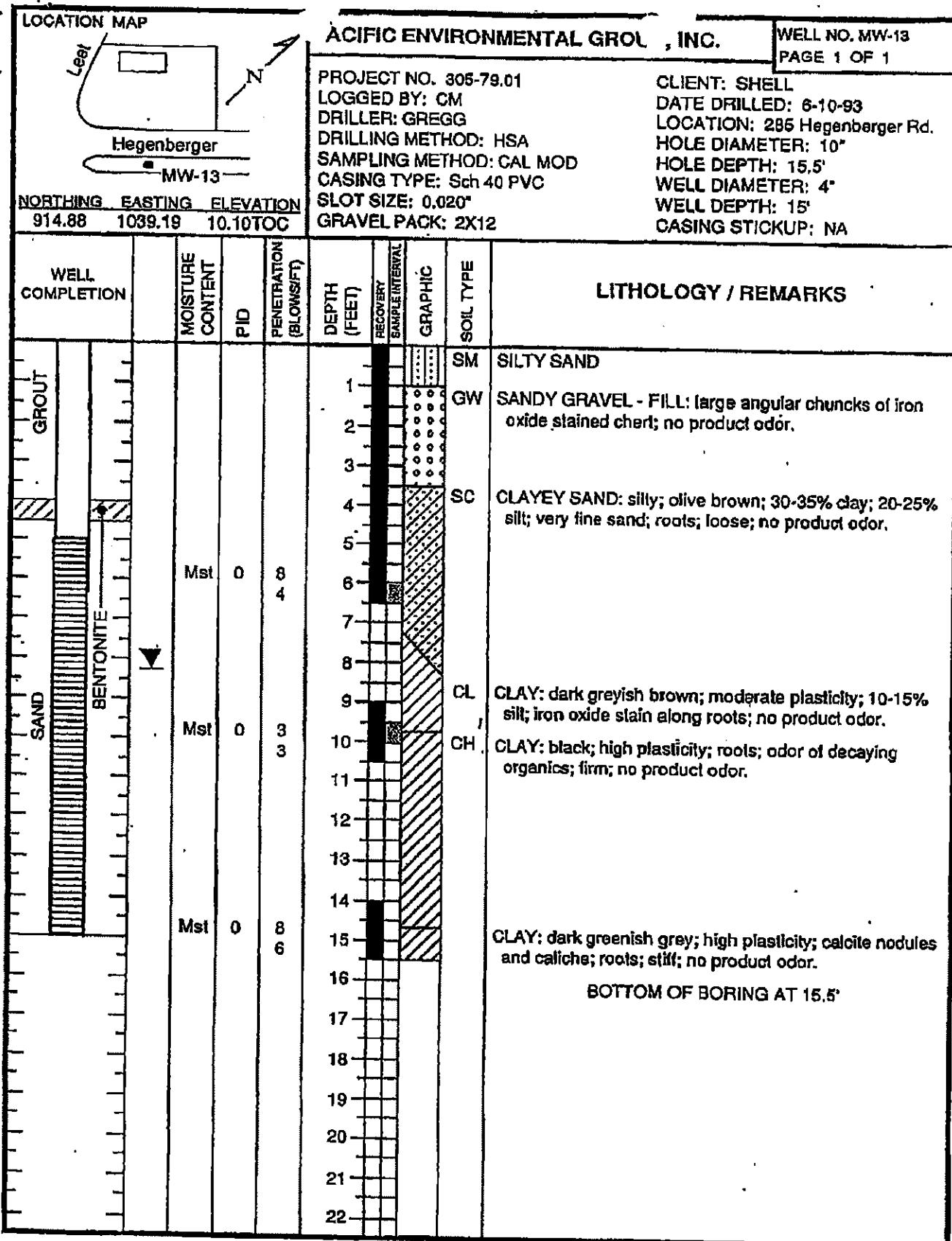
PACIFIC ENVIRONMENTAL GROUP, INC.

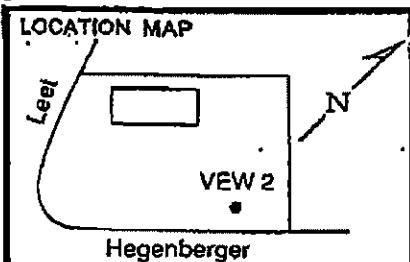
WELL NO. MW-12
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-8-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 15'
CASING STICKUP: NA







CIFIC ENVIRONMENTAL GROUP INC.

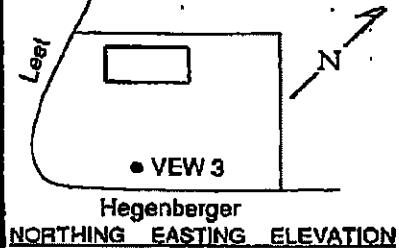
WELL NO. VEW 2
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL-PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd
HOLE DIAMETER: 10"
HOLE DEPTH: 8.5'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

WELL COMPLETION		MOISTURE CONTENT	PID	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND GROUT		Dp			1		SC	ASPHALT 2"
SAND		Mst			2		CL	CLAYEY SAND - FILL; gravelly; strong brown; 20-25% clay; fine to coarse sand; 15-20% angular gravel.
SAND	▼	Wet	100	5	3		SM	CLAY: dark greenish grey to black; moderate plasticity; moderate product odor becoming strong product odor at 3 feet; roots.
SAND		Mst			4		CH	SILTY SAND: dark grey; 30-35% silt; very fine sand; roots; loose; strong product odor.
BENTONITE		Sat	80	1	5		ML	CLAY: black; high plasticity; roots; strong product odor.
SAND					6		CL	CLAYEY SILT: with sand lenses; dark grey to black; moderate plasticity; horizontal laminae; roots; sand lenses of fine to medium sand up to 2 inches thick; soft; strong product odor.
SAND					7			CLAY: dark grey; moderate plasticity; moderate product odor.
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
								BOTTOM OF BORING AT 8.5'

LOCATION MAP



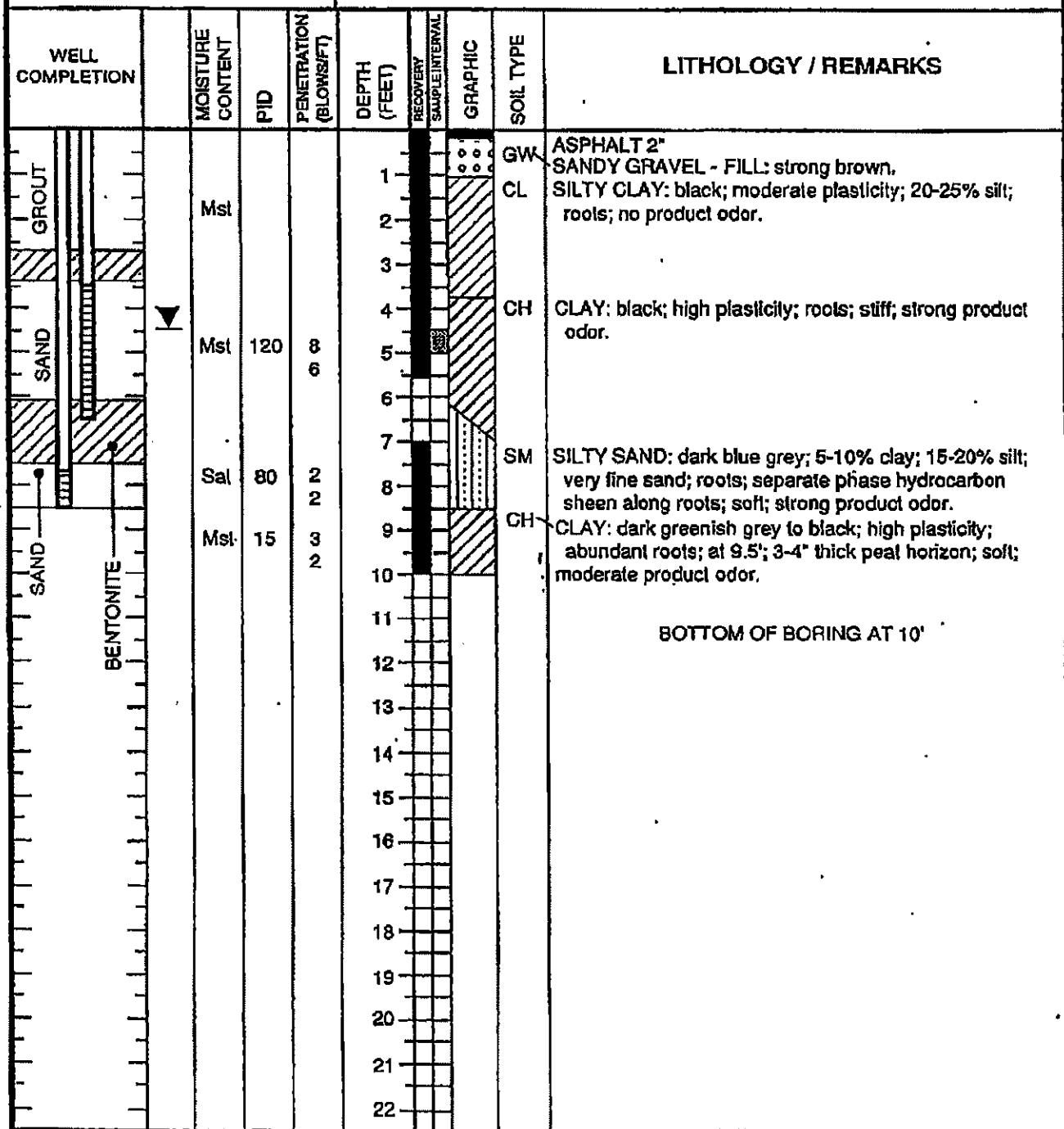
PACIFIC ENVIRONMENTAL GROUP, INC.

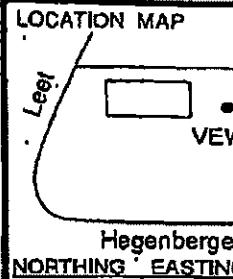
WELL NO. VEW 3

PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

CLIENT: SHELL
 DATE DRILLED: 6-10-93
 LOCATION: 285 Hegenberger Road
 HOLE DIAMETER: 10"
 HOLE DEPTH: 10'
 WELL DIAMETER: 2"
 WELL DEPTH: 8.5' and 6'
 CASING STICKUP: NA





CIFIC ENVIRONMENTAL GROL INC.

WELL NO. VEW 4
PAGE 1 OF 1

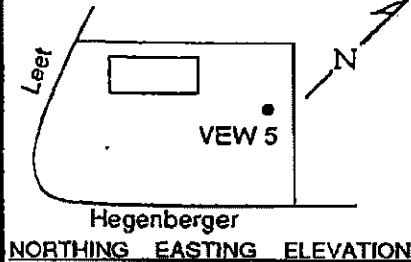
PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 9.5'
WELL DIAMETER: 2"
WELL DEPTH: 9' and 6.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOW/SIFT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
GROUT				1		SC		ASPHALT 2"	
SAND				2				CLAYEY SAND - FILL: gravelly; strong brown; 25-30% clay; fine to medium sand; 15-20% gravel; no product odor.	
SAND	Well	14	12	3		CL		CLAY; dark grey to black; moderate plasticity; faint product odor.	
SAND	Sat	7	7	4		CL/SW		SILTY SAND with CLAY: (interbedded); silty sand; dark grey; 15-20% silt; fine to medium sand; faint product odor; clay; dark grey; moderate plasticity; some rootlets; very stiff; faint product odor.	
BENTONITE	Sat	0	8	5		SM		@7.5': firm; faint product odor.	
				6				SILTY SAND: dark grey; 15-20% silt; very fine sand; faint to no product odor.	
				7				CLAYEY SILT: dark grey; 25-30% clay; 10-15% very fine sand; firm; faint to no product odor.	
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

BOTTOM OF BORING AT 9.5'

LOCATION MAP



ACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. VEW 5
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 9'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

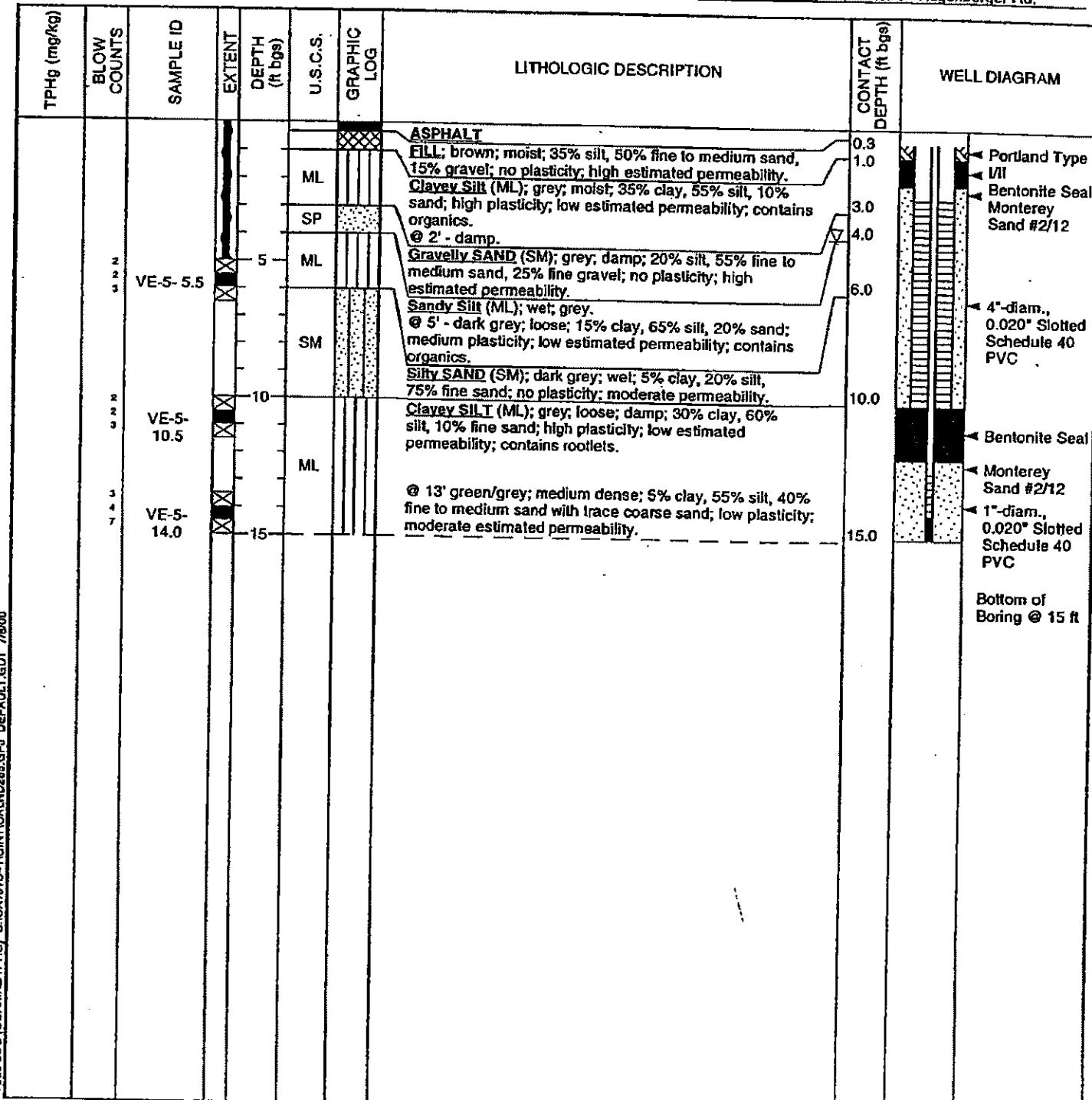
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
GROUT							SW	ASPHALT 2"	
SAND							CL	GRAVELLY SAND - FILL: clayey; strong brown; 20-25% clay; 25-30% large angular rocks; no product odor.	
SAND	Sat	150	9	1			CH/SW	CLAY: mottled grey and brown; moderate plasticity; 5-10% fine to medium sand; staining (grey) and moderate to strong product odor begins at 3.5'.	
BENTONITE	Sat	150	8	2			CH/SW	CLAY and SAND: (interbedded); clay: dark greenish grey; high plasticity; strong product odor; sand: dark greenish grey; 5-10% silt; fine to medium sand; stiff; strong product odor.	
SAND	Sal	30	2	3			CH	CLAY: soft; moderate to faint product odor.	
				4				BOTTOM OF BORING AT 9'	
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					



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

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	VE-5
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	28-Jun-00
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	28-Jun-00
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	NA; NA
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	4.0 ft (28-Jun-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5 fbg. Located at the south end of the south east pumps, adjacent to the planter on Hegenberger Rd.		

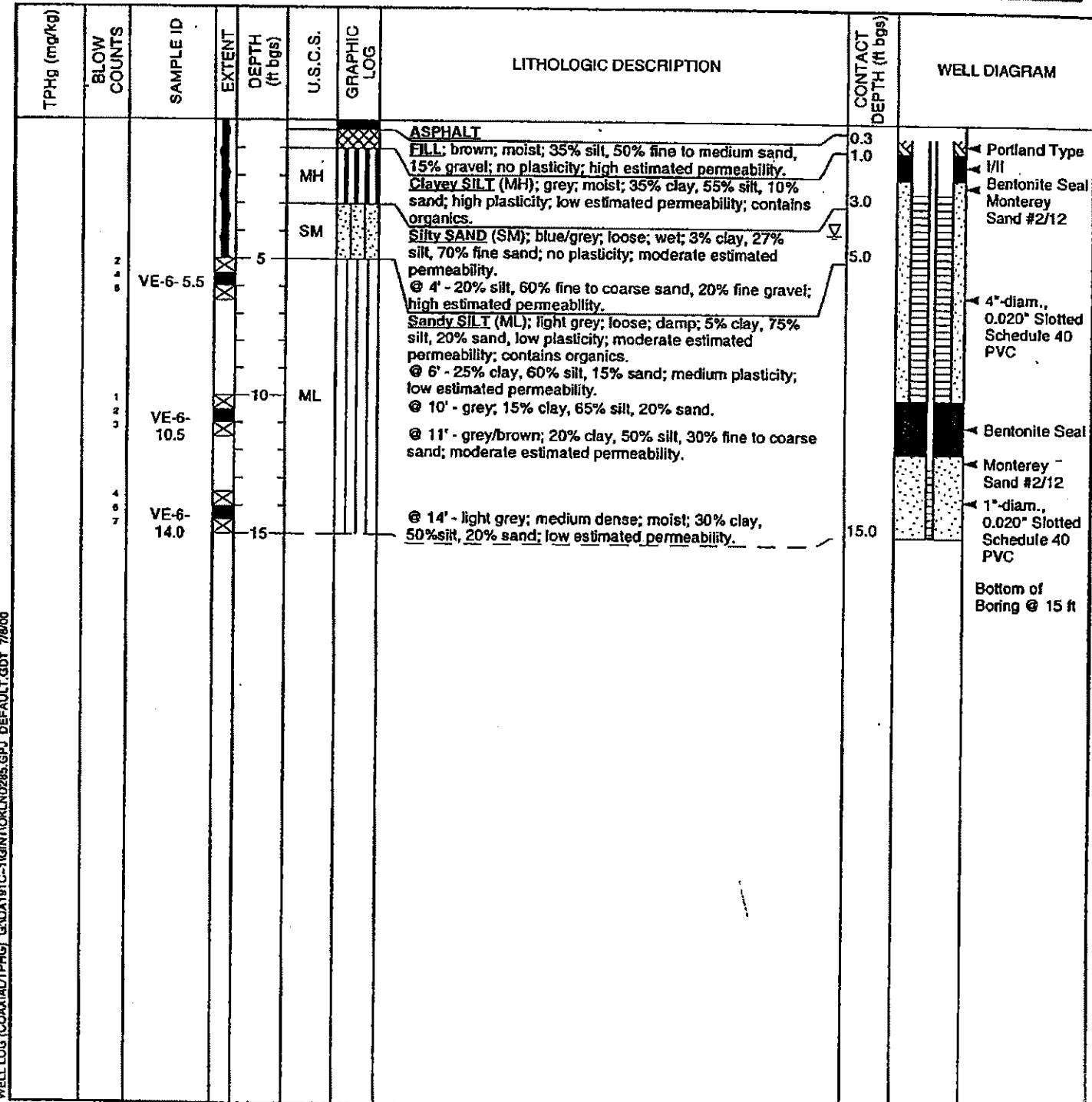




Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	VE-6
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	28-Jun-00
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	28-Jun-00
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	NA; NA
LOGGED BY	J. Loelterle	DEPTH TO WATER (First Encountered)	4.0 ft (28-Jun-00) <input checked="" type="checkbox"/>
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA <input checked="" type="checkbox"/>
REMARKS	Hand augered to 5 fbg. Located adjacent to the planter on Hegenberger Rd. by the southeast pumps.		

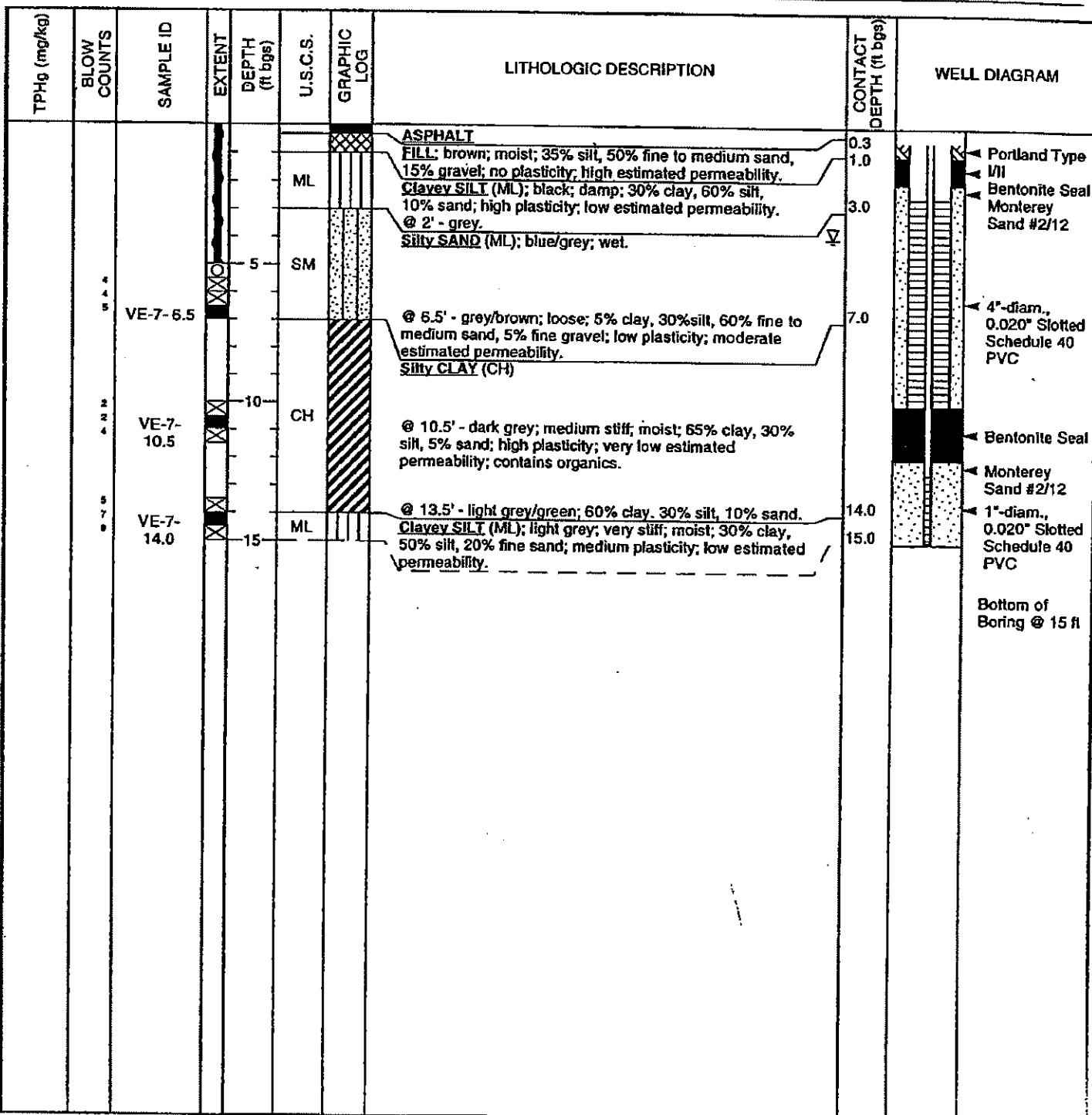




Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

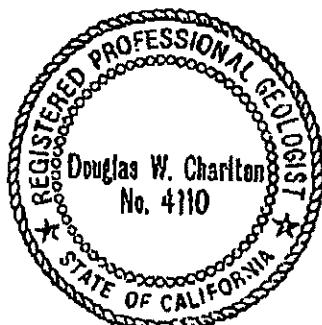
BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	VE-7
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	28-Jun-00
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	28-Jun-00
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	NA; NA
LOGGED BY	J. Loettlerle	DEPTH TO WATER (First Encountered)	4.0 ft (28-Jun-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5 fbg. Located in the middle of the exit driveway of the car wash.		



LOG OF BORING NO. 1 (SB-1)

DATE DRILLED: 2/13/89		ELEVATION		ML TAKEN: None		EQUIPMENT: Hand Auger								
DEPTH (ft)	SAMPLE	MATERIAL LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FT.	DRY WEIGHT X	DRY DENSITY lb/ft ³	TESTS		
				damp	firm	brown	0-2" ASPHALT, 2-6" BASE ROCK SP							
				moist			CLAY (Fill) Some sand and gravel							
			O O	damp	firm to soft	black dark gray	CL/SP		23	8				
			O O	damp			SILTY CLAY Some gravel							
0			O O	damp			SILTY SAND AND GRAVEL SP/							
5			O O	wet			Fine SAND SW/SW							
							Bottom of Boring at 6.5 FT. Water seeping into hole							
10														
15														
20														



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-1

LOG OF BORING NO. 2 (SB-2)

DATE DRILLED: 2/13/89			ELEVATION		WL TAKEN: None	EQUIPMENT: Hand Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BURDEN FT.	DRY WEIGHT LBS/FT ³	DRY DENSITY LB/ft ³	TESTS
					hard		0-2" ASPHALT, 2-12" BASE ROCK					
				slightly damp	firm	gray	SILTY AND SANDY CLAY [FILL] CH Some gravel					
				moist	firm	gray	CLAYEY SAND Some gravel. Odor of gasoline		SP/GP			
5									27			
							Bottom of Boring at 6 ft. Water in hole at 6 ft.					
10												
15												
20												



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-2

LOG OF BORING NO. SB-A (SB-3)

DATE DRILLED: 5/24/89		ELEVATION:		WL TAKEN 5/24/89		EQUIPMENT:			
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		
				slightly moist	loose	tan	SANDY GRAVEL (F11)		
0				moist	medium	black	SILTY CLAY	CL	
				very moist	loose	gray	SANDY GRAVEL Strong odor	SM	
5				wet	loose	black	SILTY CLAY and SAND	CL	
							Bottom of Hole at 6 ft.		
10									
15									
20									



SHELL OIL COMPANY
285 Hagenberger Road
Oakland, California

Project No.

98-44-359-02



Converse Environmental Consultants California

Drawing No.

A-6

LOG OF BORING NO. SB-B (SB-4)

DATE DRILLED: 5/24/89			ELEVATION		WL TAKEN: N/A		EQUIPMENT:					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		GRAMS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft ³	TESTS
0	0	0		moist	loose	brown	SANDY GRAVEL (Fill)		9			
					medium	black	SILTY CLAY and fine SAND CL Odor					
	0	0		very moist			Gravelly clay and sand		5			
5							Bottom of Hole at 4 ft.					
10												
15												
20												



SHELL OIL COMPANY
285 Hagenberger Road
Oakland, California

Project No.

88-44-359-02



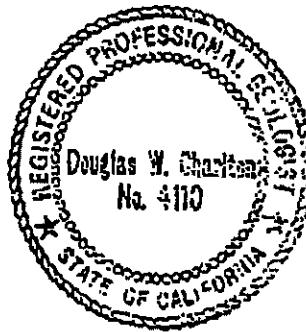
Converse Environmental Consultants California

Drawing No.

A-7

LOG OF BORING NO. SB-C (SB-S)

DATE DRILLED: 5/24/89		ELEVATION		ML TAKEN: 5/24/89		EQUIPMENT:						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BURS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft ³	TESTS
				very moist		black	SILTY CLAY and SAND CL					
0						gray	SILTY fine SAND SM		13			
				wet		black	SILTY CLAY and SAND CL					
1							Strong odor					
5	0								4			
							Bottom of Hole at 6 ft.					
10												
15												
20												



SHELL OIL COMPANY
285 Hagenberger Road
Oakland, California

Project No.

88-44-359-02



Converse Environmental Consultants California

Drawing No.

A-8

LOG OF BORING NO. SB-6

DATE DRILLED: 7-13-89		ELEVATION:		ML TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOCS/FT.	G.Y.W. (kpa)	DRY DENSITY lb/ft ³	TESTS
1							ASPHALT 3" CONC. SLAB. 6"				
5				dry	loose	gray	GRAVEL backfill				
6							Filter fabric				
7				wet	medium	light gray	Lenses-layers SILT and fine SAND Odor	9			
10							Bottom of Hole at 7 ft.				
15											
20											

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



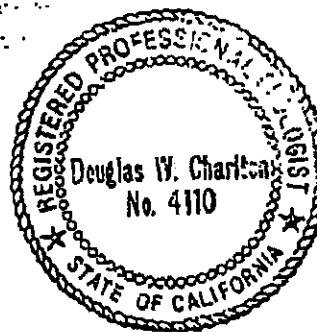
Converse Environmental Consultants California

Drawing No.

A-1

LOG OF BORING NO. SB-7

DATE DRILLED: 7-13-89		ELEVATION:		HL TAKEN: 7-13-89		EQUIPMENT: 3-1/4" x 6" Hollow Auger						
DEPTH (ft)	SAMPLE	WATER LINE	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLS/FT.	D.V.P. (lb/in.)	DRY DENSITY lb/ft ³	TESTS
5							ASPHALT 4" BASE 6"					
							GRAVEL backfill					
							No odor					
7							Bottom of Hole at 7 ft.					
10												
15												
20												



SHELL OIL COMPANY
205 Hegnerberger Road
Oakland, California

Project No.

88-44-359-01



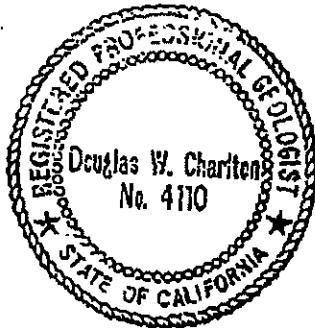
Converse Environmental Consultants California

Drawing No.

A-2

LOG OF BORING NO. SB-8

DATE DRILLED: 7-13-89			ELEVATION		M. TAKEN: 7-13-89		EQUIPMENT: 3-1/4"X 6" Hollow Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	STRIKE	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BURSF.	Q.V.H. (cu.yd.)	DRY DENSITY lb/cu.ft.	TESTS
							ASPHALT 2" BASE 6"					
							Mix Bay Mud, SAND Odor		SP			
4				moist	loose	gray	Silty fine SAND trace shells fragments		SM	5	260	
5				V. moist			Strong odor					
2				wet	loose					5	260	
							Bottom of Hole at 6.5 ft.					
10												
15												
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

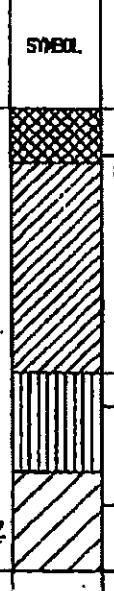
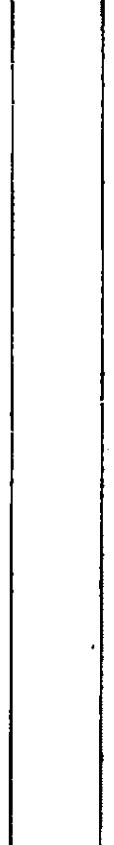


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Drawing No.

A-3

LOG OF BORING NO. SB-9

DATE DRILLED: 7-13-89			ELEVATION		ML TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger										
DEPTH (ft)	SAMPLE	WATER LEVEL	SIMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		B.D./FT.	D.V.M. (ft)	IN DENSITY IN/T	TESTS					
				medium dense	black brown	ASPHALT 2" BASE 6"				6	260						
				moist	medium	dark gray	Silty CLAY Odor CL										
1				v. moist	loose	grey	Fine Sandy SILT Odor ML										
5				wet	firm to stiff		Silty CLAY Bay Mud CH Slight odor Clayey SILT rootlets										
10							Bottom of Hole at 7 ft.										
15																	
20																	

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-4

LOG OF BORING NO. SB-10

DATE DRILLED: 7-13-89			ELEVATION		NL TAKEN 7-13-89		EQUIPMENT: 3-1/4" x 5" Hollow Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLRD/FT.	O.Y.H. (lb.)	DRY DENSITY lb/ft ³	TESTS
							ASPHALT 2" BASE 6"					
						gray	Silty CLAY Odor	CL		50		
						light gray	Fine SAND trace SILT	SP/SM		80		
						dark gray	Silty CLAY and Clayey SILT. Strong odor	ML/CL		500		
1	▼	Wet					Coarse SAND and pea GRAVEL	SP/SP	7			
5									11			
2												
10							Bottom of Hole at 6.5 ft.					
15												
20												



Project No.

88-44-359-01

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Drawing No.

A-5



Converse Environmental Consultants California

LOG OF BORING NO.SB-11

DATE DRILLED: 7-13-89			ELEVATION		ML TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BURR/FT.	D.V.M. (IN.)	DRY WEIGHT LBS/CF.	TESTS
				moist	stiff	gray	ASPHALT 2" BASE 6" Pavement badly cracked in this area. Surface infiltration/CH Silty CLAY CL/CH trace concrete rubble			60		
4				very moist	medium		Silty CLAY increase moisture			30		
5							Clayey SILT trace fine SAND Odor	ML	6	280		
2						black	Saturated fine SAND	SP	9	30		
						gray	SILT trace fine SAND	ML				
10							Bottom of Hole at 7 ft.					
15												
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-6

LOG OF BORING NO. SB-12

DATE DRILLED: 11-16-89			ELEVATION:		ML TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BORNS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS
				very moist	soft	dark brown	Sandy SILT. (Topsoil) ML					
1					soft	dark gray	Silty CLAY, trace Gravel. CL					
5					medium	dark gray	Silty CLAY, trace organics, Trace green staining.		10	0		
2							Trace to little Sand.		12	0		
3		▽	wet				Silty CLAY, little Sand.		13	0		
10							Total Depth of Boring: 9 ft Below Ground Surface.					
15												
20												

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

A-2



Converse Environmental West

LOG OF BORING NO. SB-13

DATE DRILLED: 11-16-89			ELEVATION:		WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger											
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION			BLOWS/FT.	D.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS				
1			○ ○ ○ ○ ○	moist	medium dense	dark gray	Sandy GRAVEL. (sub-base) GP			40	215						
				very moist	medium	green	Sandy CLAY, some Cobble, CL little Rubble. (Fill) Gravelly lens 4".										
				wet	m dense												
			△△△△△	very moist	medium	black	Silty CLAY, CL increased Sand, trace Gravel. Slight odor.										
				moist		gray green	Gravelly rounded SAND. SP Strong odor.										
			▽▽▽▽▽	wet		--- dark gray											
				wet	medium dense		Fine to medium SAND. SP			29	142						
Total Depth of Boring: 7 ft Below Ground Surface.																	
10																	
15																	
20																	

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

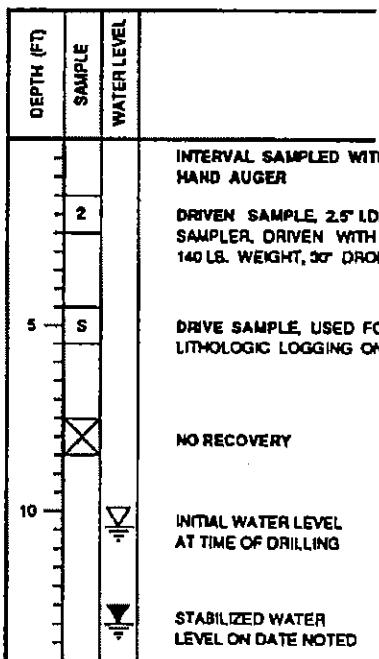
A-3



Converse Environmental West

MAJOR DIVISIONS			SYMBOLS	TYPICAL NAMES	
COARSE GRAINED SOILS MORE THAN HALF IS LARGER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES	
		GRAVELS WITH OVER 12% FINES	GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES	
			GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SILT MIXTURES	
		SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES	
			SW	WELL GRADED SANDS, GRAVELLY SANDS	
		CLEAN SANDS WITH LITTLE OR NO FINES	SP	POORLY GRADED SANDS, GRAVELLY SANDS	
			SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES	
		SANDS WITH OVER 12% FINES	SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES	
	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50 SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 HIGHLY ORGANIC SOILS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAY	
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE, SANDY OR SILTY SOILS, ELASTIC SILTS	
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
			PI	PEAT AND OTHER HIGHLY ORGANIC SOILS	

SAMPLE TYPE



NOTE:

SOIL CONDITIONS INDICATED BY BORING LOGS APPLY ONLY AT THE LOCATION OF THE PARTICULAR BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THE BORING LOCATION WITH THE PASSAGE OF TIME. DATA PRESENTED IN THE LOGS REPRESENT A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

UNIFIED SOIL CLASSIFICATION, BORING LOG AND WELL CONSTRUCTION SYMBOLS

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

Drawing No.

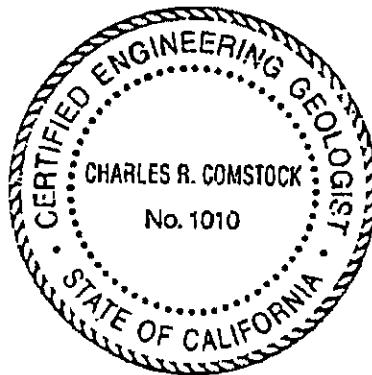
A-1



Converse Environmental West

LOG OF BORING NO. SG-1

DATE DRILLED : 8/690			ELEVATION :			W.L. TAKEN :	EQUIPMENT : Hand Auger						
DEPTH [FT]	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
			dry			dark brown tan	Top soil. Gravelly Silts and fine Sands with abundant roots and other organic material						
	X		moist			gray	Sandy Gravelly Clay			GC/CL			
5	X		wet			black	Fine to coarse Sand			SP			
							Silty Clay (last 2")			CL			
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

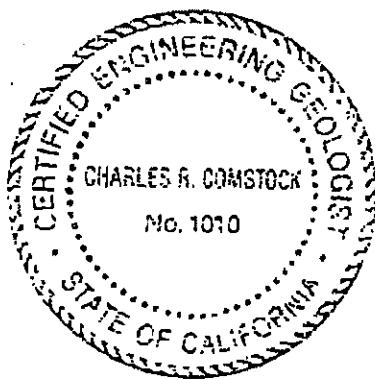


Converse Environmental West

Drawing No.

A-2

LOG OF BORING NO. SG-2

DATE DRILLED : 8/6/90			ELEVATION :			W.L. TAKEN :	EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY 1B/ft ³	TEST
							Top soil, Gravelly Silts and fine Sands						
				moist			Very fine Sand grading into SM/CL						
5	X			moist			Silty Clay CL						
							Silty Clay grading to Silty very fine Sand SM						
							Total Depth of Boring at 5.5 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
 285 Hegenberger Road
 Oakland, California

Project No.

88-44-359-20



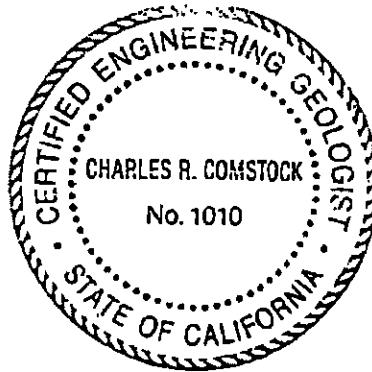
Converse Environmental West

Drawing No.

A-3

LOG OF BORING NO. SG-3

DATE DRILLED : 8/6/90			ELEVATION :			W.L. TAKEN:	EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Planter, top soil						
	X						Clayey Sand			SC			
5	X			dry to moist		tan							
				wet		dark gray	Silty Clay			CL			
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-4

LOG OF BORING NO. SG-4

DATE DRILLED : 8/6/90			ELEVATION :			W.L. TAKEN :	EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
							Top soil, Sandy Gravel						
	X			dry		red brown	Fine Sands, trace Clay			SM			
5	X			moist		black	Fine Sandy Silts			SM			
10							Total Depth of Boring at 6 ft - B.G.S.						
15													
20													

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-5

LOG OF BORING NO. SG-5

DATE DRILLED : 8/6/90			ELEVATION :		W.L TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST	
0							Top soil - Gravel						
2	X			dry		brown	Gravelly Clay		GC/CL				
5	X			moist		gray black	Silty Clay		SM/CL				
6							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



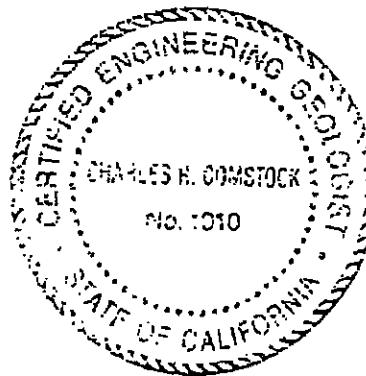
Converse Environmental West

Drawing No.

A-6

LOG OF BORING NO. SG-6

DATE DRILLED: 8/6/90			ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
1				dry		brown	Top soil					
	X						Sandy Gravel		GP			
5	X			very moist		gray	Coarse Gravel some Sand (cuttings)					
							Coarse Sand (angular)		SP			
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

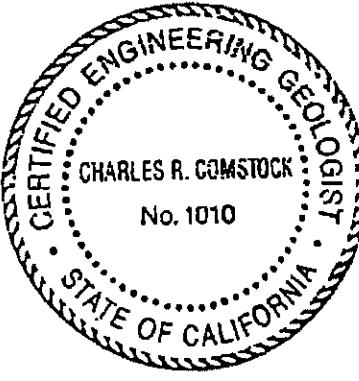
Drawing No.

A-7



Converse Environmental West

LOG OF BORING NO. SG-7

DATE DRILLED : 8/7/90			ELEVATION :			W.L. TAKEN :		EQUIPMENT : Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
				dry			Top soil - Gravelly Sand						
			X	moist		dark gray	Gravelly Silt some Sand and Clay SM/GM						
5			X	moist		black	Clay Silty Sand, trace Gravel SM/SC						
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
 285 Hegenberger Road
 Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-8

LOG OF BORING NO. SG-8

DATE DRILLED: 8/7/80			ELEVATION :			W.L. TAKEN:	EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
				dry		brown	Top soil - Sandy Gravel						
	X			slightly moist		brown	Sandy Silts some Clay			SM			
5	X			moist		black	Silty Sands trace Clay			SP			
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
 285 Hegenberger Road
 Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-9

LOG OF BORING NO. SG-9

DATE DRILLED: 8/7/90			ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
						brown	Top soil - fine Sand					
	X			slightly moist		dark brown	Gravelly Sand some Silt trace Clay SP/SM			28		
5	X			moist		dark gray	Silty Sand some Clay SC			10		
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



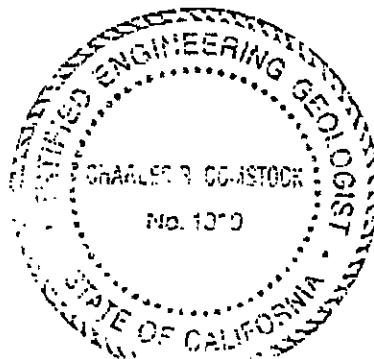
Converse Environmental West

Drawing No.

A-10

LOG OF BORING NO. SG-10

DATE DRILLED: 8/7/90			ELEVATION:			W.L. TAKEN:	EQUIPMENT: Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
				dry		brown	Top soil - Sandy Gravel					
	X			moist		brown	Fine Sand, Chunk of wood SP					
5	X			moist		black	Clayey Silt trace Sand SC					
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-11

LOG OF BORING NO. SG-11

DATE DRILLED : 8/7/90			ELEVATION :		W.L. TAKEN :		EQUIPMENT : Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (kpm)	DRY DENSITY (lb/ft³)	TEST
0				dry		brown	Fill - Sandy Gravel					
2	X						Fine Sands trace Silt some Gravel		SP			
5	X			moist		black	Clayey Silt		SM			
6							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-12

LOG OF BORING NO. SG-12

DATE DRILLED : 8/7/90			ELEVATION :			W.L. TAKEN :	EQUIPMENT : Hand Auger/Slide Hammer						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
							Top soil - Sandy Gravel						
				dry			Silty Sand SP/SM						
5				moist		black	Clayey Silt trace Sand SM						
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
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Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-13

LOG OF BORING NO. SG-13

DATE DRILLED: 8/7/90			ELEVATION:			W.L. TAKEN:	EQUIPMENT: Hand Auger/Slide Hammer Sampler						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Top soil - Silty Sand						
			X	moist		dark gray	Clayey Silt			SM			
5			X	very moist		black	Sandy Silt			SM			
							Total Depth of Boring at 6 ft - B.G.S.						
10													
15													
20													

Shell Oil Company
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Oakland, California

Project No.

88-44-359-20

Drawing No.

A-14



Converse Environmental West

LOG OF BORING NO. SG-14

DATE DRILLED: 9/13/90			ELEVATION:			W.L TAKEN:	EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS /ft	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Sandy Gravel base 6"						
							Coarse Gravel			GP			
							Sandy Gravel/Gravelly Sand			SP/GP			
1				moist	loose								
5							Silty Clay			CH			
2			wet	soft	black		Sandy Silt (last 2")			ML			
							Total Depth of Boring at 6 ft						
10													
15													
20													



Shell Oil Company
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Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-15

LOG OF BORING NO. SG-15

DATE DRILLED : 9/13/90			ELEVATION :			W.L TAKEN :	EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / 6'	O.V.M. (ppm)	DRY DENSITY (ρ/ft^3)	TEST	
10	1			slightly moist	medium dense	brown	Sandy Gravel base		GP	8			
							Fine to coarse Sand						
	2			moist	soft	black	Silty Clay		CH	4			
							Silty Sand						
Total Depth of Boring at 6 ft													
20													

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-16

LOG OF BORING NO. SG-16

DATE DRILLED: 9/13/90			ELEVATION:			W.L. TAKEN:		EQUIPMENT: Hand Auger				
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / 6'	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Sandy Gravel base	GP				
1	1		moist	soft	brown black		Clayey Silt mixed with fine Sand	ML/SP	4 3			
5	2		v. moist		black		Silty Sand	ML	4 3			
10							Total Depth of Boring at 6 ft					
15												
20												



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20



Converse Environmental West

Drawing No.

A-17

LOG OF BORING NO. SG-17

DATE DRILLED : 9/13/90			ELEVATION :			W.L. TAKEN :	EQUIPMENT : Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / 6'	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
				moist	loose	black	Concrete 6"					
1							Sandy Silt, trace Gravel		ML			
5	2		v. moist to wet	loose	black		Silty Sand, some Gravel		SM			
10							Total Depth of Boring at 6 ft					
15												
20												



Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-20

Drawing No.

A-18



Converse Environmental West

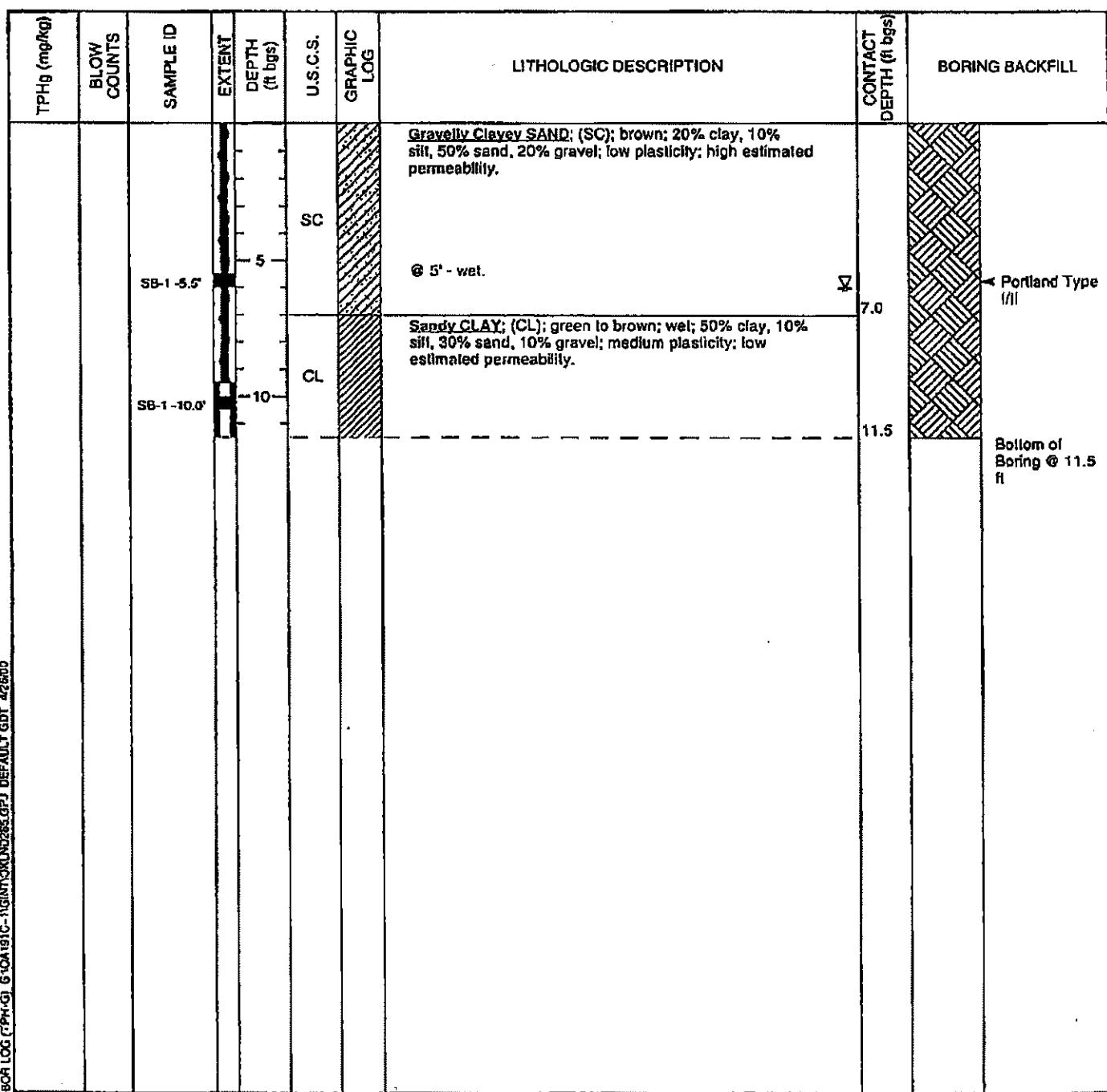


Combra Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME Equiva Services LLC
JOB/SITE NAME Oakland 285
LOCATION 285 Hegenberger Road, Oakland, California
PROJECT NUMBER 241-0784
DRILLER Gregg Drilling
DRILLING METHOD Hydraulic push
BORING DIAMETER 2"
LOGGED BY M. Pavos
REVIEWED BY _____
REMARKS Hand augered to 9.5' bgs.

BORING/WELL NAME SB-1
DRILLING STARTED 18-Mar-99
DRILLING COMPLETED 18-Mar-99
WELL DEVELOPMENT DATE (YIELD) NA
GROUND SURFACE ELEVATION Not Surveyed
TOP OF CASING ELEVATION NA
SCREENED INTERVAL NA
DEPTH TO WATER (First Encountered) 6.0 ft (18-Mar-99)
DEPTH TO WATER (Static) NA

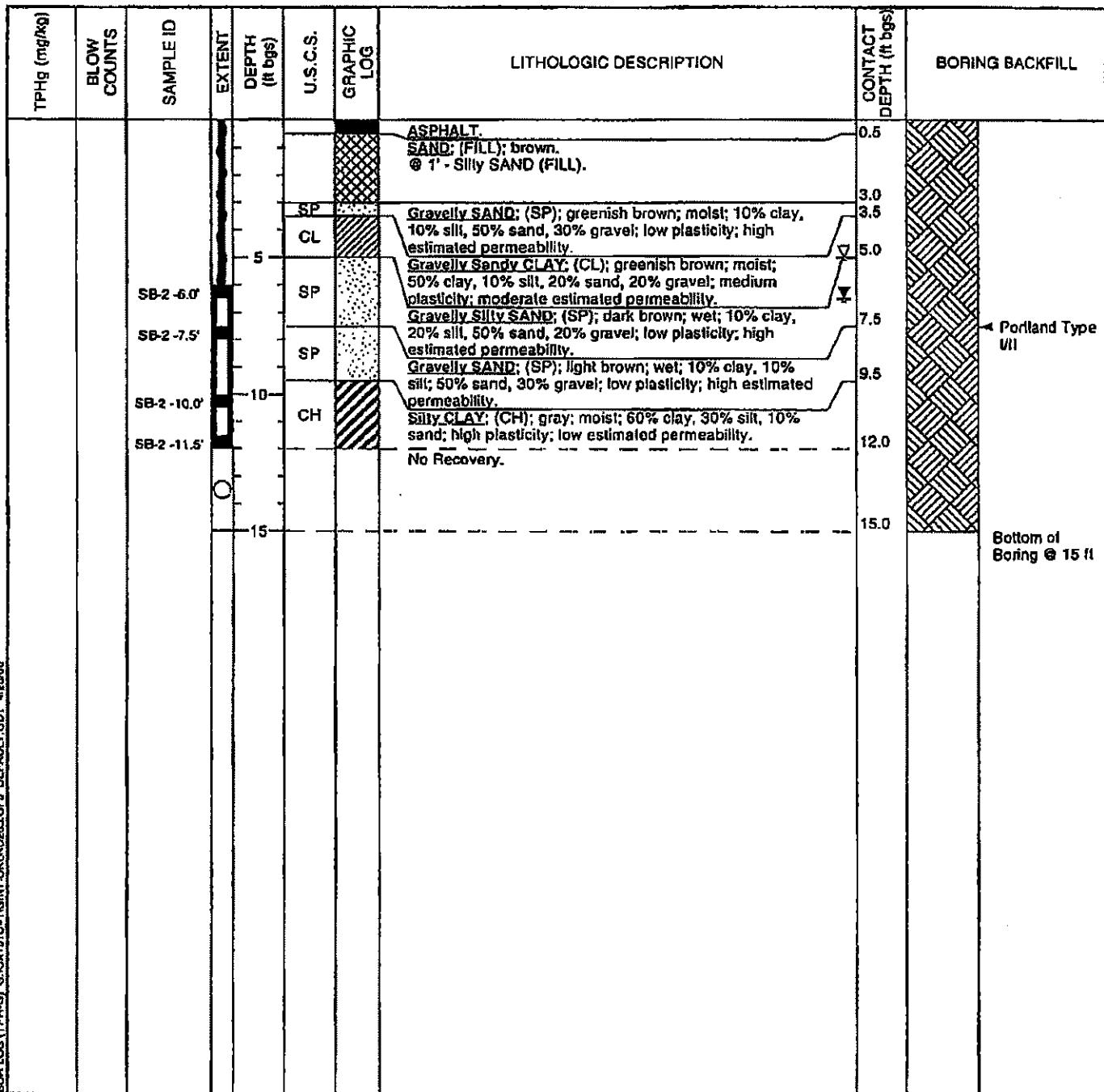




Cambridge Environmental
Technology, Inc.
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Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-2
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Graig Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	5.0 ft (18-Mar-99) <input checked="" type="checkbox"/>
REVIEWED BY		DEPTH TO WATER (Static)	6.50 ft <input type="checkbox"/>
REMARKS	Hand augered to 6' bgs.		





Cambrria Environmental Technology, Inc.
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-3
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Heggenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	6.0 ft (18-Mar-99) <input checked="" type="checkbox"/>
REVIEWED BY		DEPTH TO WATER (Static)	NA <input type="checkbox"/>
REMARKS	Hand augered to 5' bgs.		

