ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

RO0000380

September 20, 2002

Ms. Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91501

F. Schlessinger & A. Hellman Trust
333 Kearny Street
San Francisco, CA 94108

Re: Fuel Leak Site Case Closure for 2101 Park Blvd., Oakland, CA 94606

Dear Ms. Petryna and F. Schlessinger & A. Hellman 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 Protection Division 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.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- up to 550 ppm TPH as gasoline and 0.78, 5.7, 10, 56 ppm benzene, toluene, ethyl benzene and xylenes (BTEX) respectively, exists in soil beneath the site;
- up to 2,300 ppb TPHg and 483, 13.4, 72.8, 64.4 ppb BTEX exists in groundwater beneath the site; and,
- a site safety plan must be prepared in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination and
- if land use changes at the site, the closure must be revisited to determine if any additional actions are required.

If you have any questions, please contact me at (510) 567-6721.

Donna L. Drogos, P.E.
LOP Program Manager

enclosures: 1. Case Closure Letter
2. Case Closure Summary

c:

Leroy Griffin
Oakland Fire Department (OES)
1605 MLK Jr Way
Oakland, CA 94612

Ms. Betty Graham
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Ms. Shari Knieriem
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

√Files, D. Drogos

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September 20, 2002

Ms. Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91501

F. Schlessinger & A. Hellman Trust
333 Kearny Street
San Francisco, CA 94108

Dear Ms. Petryna and F. Schlessinger & A. Hellman Trust:

Subject: Fuel Leak Site Case Closure 2101 Park Blvd., Oakland, CA 94606; Case No. RO0000380

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) 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.

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,

Mee Ling Tung

Mee Ling Tung
Director
Alameda County Environmental Health

RD 380

SENDER:

- ☐ Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b.
- ☐ Print your name and address on the reverse of this form so that we can return this card to you.
- ☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
- ☐ Write *"Return Receipt Requested"* on the mailpiece below the article number.
- ☐ The Return Receipt will show to whom the article was delivered and the date delivered

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to: STID 229
Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, C.A. 91501-7869

4a. Article Number

4b. Service Type
☐ Registered ☒ ~~Certified~~
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
DEC 14 '99

5. Received By: *(Print Name)*
GONZALEZ

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature *(Addressee or Agent)*

PS Form **3811**, December 1994 102595-99-B-0223 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:

- ☐ Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b.
- ☐ Print your name and address on the reverse of this form so that we can return this card to you.
- ☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
- ☐ Write *"Return Receipt Requested"* on the mailpiece below the article number.
- ☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to: STID 229
F. Schlessinger & A. Neilman
333 Kearney St.
San Francisco, CA. 94108

4a. Article Number

4b. Service Type
☐ Registered ☒ ~~Certified~~
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
12-17-99

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature *(Addressee or Agent)*

PS Form **3811**, December 1994 102595-99-B-0223 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

CALIFORNIA REGIONAL WATER

APR 23 2002

QUALITY CONTROL BOARD

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: ~~Dec 3,~~ ~~April 13, 2001~~ 4/19/02

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Barney Chan** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Former Shell Station**
Site facility address: **2101 Park Blvd, Oakland, CA 94606**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **229 / RO# 380**
URF filing date: **7/12/95** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Ms. Karen Petryna Equiva Services LLC P.O.Box 7869 Burbank, CA 91501	F. Schlessinger & A. Hellman Trust 333 Kearny Street San Francisco, CA 94108	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	4x(500-1000)	gasoline	1st generation gasolineb USTs assumed removed, One of these tanks re-used for waste oil (1st gen)	date ?
2	2x7500	gasoline	2nd generation gasoline assumed removed,	date ?
3	3x10,000	gasoline	3rd generation gasoline tanks removed	12/86
4	550	waste oil	2nd generation removed and reused	11/21/86
5	550	waste oil	3rd generation removed	7/14/95

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **4/5/2001**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 3' to 18'bgs**
Highest GW depth below ground surface: **3.49'** Lowest depth: **5.60' in well S-3**
Flow direction: **South at 0.03 to 0.05 ft/ft**

Leaking Underground Fuel Storage Tank Program

Most sensitive current use: **Mixed residential/commercial**
Are drinking water wells affected? **No** Aquifer name: **Unknown**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy and
Alameda, CA 94502

Oakland Fire Dept
1605 Martin Luther King
Oakland, CA 94612

Treatment and Disposal of Affected Material:

Without copies of the tank removal reports, we only present the information for the 7/95 waste oil tank removal.

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	1-550 gallon	Disposed @ H&H, SF	7/14/95
Rinsate	20 gallon	Recycled @ Evergreen, Newark	8/9/95

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before[1]	Soil (ppm) After[2]	Water (ppb) Before[3]	Water (ppb) After[4]
TPH (Gas)	550	550	13,000	2300
TPH (Diesel)	ND[5]	ND	600	NA
TEPH (O&G)	ND			
Benzene	0.78	0.78	1,100	483
Toluene	5.7	5.7	170	13.4
Ethylbenzene	10	10	1,200	72.8
Xylenes	56	56	4,600	64.4
MTBE	NA	NA	360[6]	<5
Chlorinated VOCs	ND			
Metals: Cd,Cr, Pb, Ni, Zn	ND, 37, ND, 69, 49			

NOTE
1 soil sample from borings advanced at site, 5/95
2 no documentation of overexcavation when USTs were removed (SJ4)
3 maximum concentrations detected in well S-3
4 most recent sampling event, 12/00
5 from 3rd generation waste oil tank pit, 7/95
6 MTBE as quantified using Method 8020

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____
Does corrective action protect public health for current land use? **YES**
Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **No, pending site closure**
Number Decommissioned: **0** Number Retained: **3**
List enforcement actions taken: **NA**
List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: Barney Chan Date: 4/13/01

Reviewed by

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: [signature] Date: 4/13/01

Name: **Susan Hugo** Title: **Acting Supervisor**

Signature: Susan L Hugo Date: 11/30/01

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response: Concur

RWQCB Staff Name: **Chuck Headlee** Title: **AEG**

Signature: Chuck Headlee Date: 6/12/02

In May 1995 nine Geoprobe borings (S-B through S-L) and three groundwater monitoring wells (S-1 through S-3) were drilled at the site. These borings were intended to determine the impact of any releases from the multiple tank and dispensers removals. The absence of the detection of underground tank remnants supports the belief that the tanks had been removed, as thought. Borings S-B and S-2 were drilled near the former 1st generation USTs, near the southern property line. Borings S-C, S-G and S-F were drilled in and near the former 2nd generation USTs. Borings S-H, S-I, and S-J were drilled in each of the three former dispenser island locations. Borings S-3 and S-D were located within and next to the former third generation gasoline tanks and S-1 and S-L were located in the assumed down-gradient direction (west) of the first and second generation waste oil tanks. Soil samples were collected from each boring while groundwater was collected from S-D, S-L, and the three monitoring wells. Moderate soil contamination was noted in the borings by the former dispenser islands (S-H, S-I, S-J) and in well S-2 and S-3. Based upon the gradient (westerly) it was determined to run the groundwater sample from well S-1 for the waste oil parameters: TPHd, oil and grease, HVOCs and heavy metals. HVOCs and oil and grease were not detected in the groundwater. TPHd was detected at 360 ppb. Cadmium, chromium, lead, nickel and zinc were detected at ND, 270, 37, 310 and 280 ppb, respectively. **See Table 4 and 5, and Plate 4 for the soil and groundwater results. Attached also are boring logs for the wells and borings.**

Groundwater has been sampled on a quarterly basis since June 1995. Groundwater appears to flow to the south-southwest, not to the west as initially assumed. Therefore, in September 2000, two additional exploratory borings (EB-1 and EB-2) were advanced south of the former dispenser and former fuel USTs. Groundwater was encountered at 5 feet bgs in boring EB-2 and at 14 feet bgs in EB-1. Soil samples were only collected from boring EB-1. Grab groundwater samples were collected from both borings. All samples were analyzed for TPHg, BTEX, and MTBE. Soil from 8.0 feet bgs contained 114ppm TPHg, 0.746ppm benzene and was non detect for MTBE. The grab groundwater sampled from EB-1 contained 2,250ppb TPHg, 287ppb benzene and was ND for MTBE. **See Fig 4, and Table 6, 7, and 8.**

Well S-3 continues to exhibit elevated levels of hydrocarbon contamination. A Tier 2 RBCA was submitted to evaluate the risk of the residual soil and groundwater contamination. The soil data from the 1995 investigation from 3 to 10 feet in depth (vadose zone) was evaluated. The 95% UCL of benzene concentration in these 12 samples was determined to be 0.063 ppm. Since the data was not normally distributed, the 95% UCL was based upon the natural log mean concentration. The mean concentration over the last four sampling events for well S-3 was used to estimate the representative groundwater concentration. The mean benzene concentration was 0.49 mg/l. The exposure scenarios evaluated were volatilization from soil and groundwater to indoor air commercial and volatilization to outdoor air, off-site residential. This assumes that residential units would not be built on the site. The representative benzene concentrations were compared with the City of Oakland Tier 2 SSTL, which assumes an acceptable target risk of $1x10^{-5}$. The calculated risk did not exceed the target risk. The benzene concentration from the September 2000 investigation did not exceed the calculated SSTLs either. **See Table 9 for a summary of the RBCA results for benzene.**

In summary, case closure is recommended because:

- the ongoing sources, underground tanks and dispensers, have been removed,
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment based upon the RBCA evaluation.

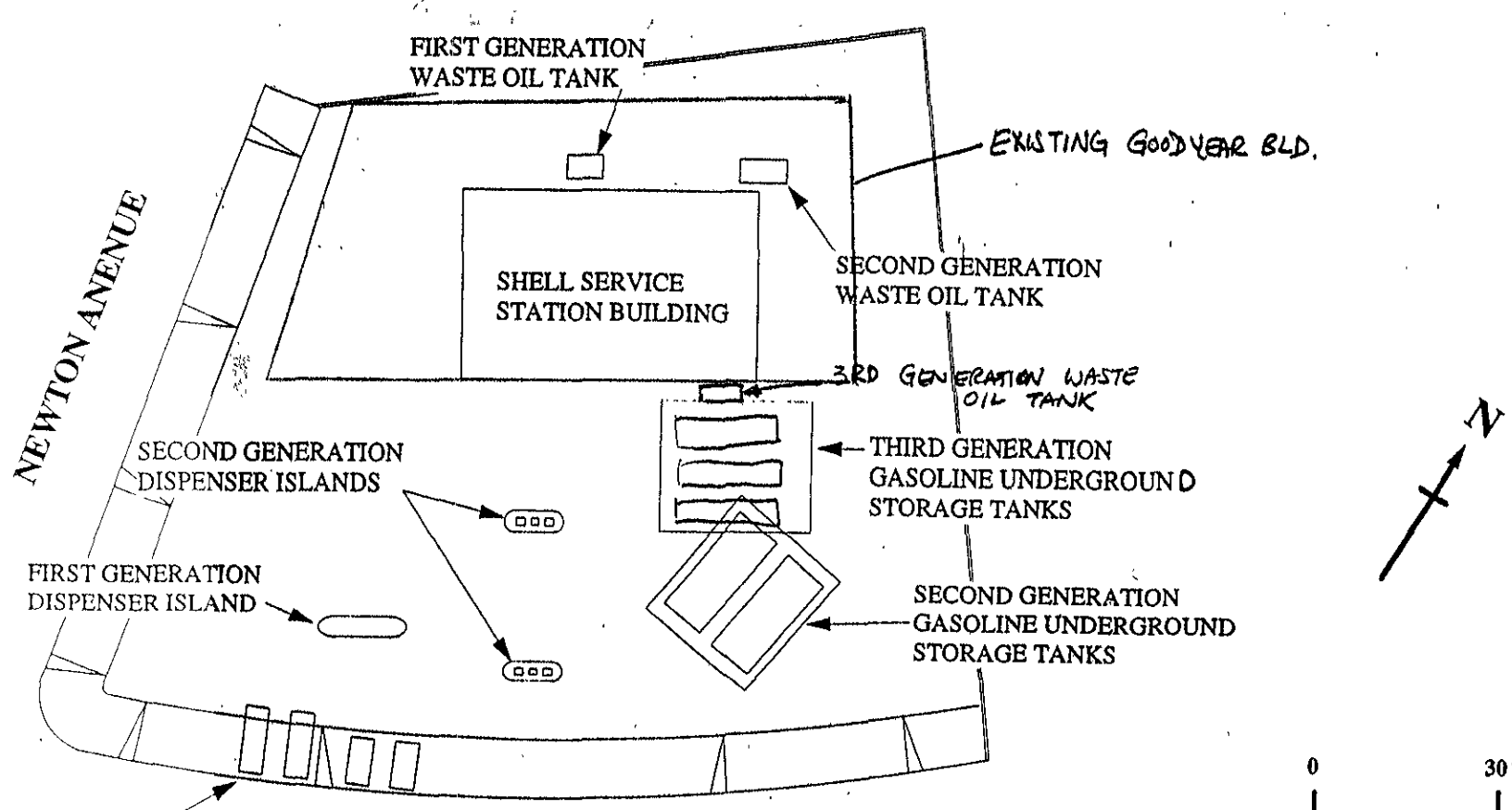


PLATE
2

SITE PLAN - FORMER UST AND DISPENSER ISLAND AREAS
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
E4/95267.01

Drawn By: GLV | Date: 2-24-95 | Approved By: [signature] | Date: 2-29-95

S&W
IL AND WATER
ABORATORY
l Fertility—Plant Tissue
ollution and Residue Control
rinking Water

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

931

Laboratory Report

Table 1

Client	Report Date
Blaine Tech Services P. O. Box 5745 San Jose, CA. 95150	11/17/86

Sample Site	Date Received
Shell Oil 2101 Park Oakland, CA. 86316M1 #1	11/12/86

Analysis Requested	Procedure	Date Analyzed
Soil/Waste Oil	EPA 3550 (Sonication/extraction)	11/12/86

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration (ppm)	Detection Limit (ppm)
316B6-12	#1	Soil/Waste Oil	2464	20 ppm

Analyst Signature R. A. Lemay

TOTAL P.07

SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted of clay. A faint odor of gasoline was noted in the soil and water samples.

LABORATORY PROCEDURES AND ANALYTICAL RESULTS

The soil and water samples from the fuel tank pit were analyzed at Sequoia Analytical Laboratory for total hydrocarbons as gasoline (THC), Benzene, Toluene and Xylene (BTX). The results of the chemical analyses are summarized below. Copies of the laboratory results are attached.

Sample Number	Type	Total Hydrocarbon*	Benzene*	Toluene*	Xylene*
B1	soil	120	1.1	0.6	5.7
W1	water	4.4	.0076	.017	.097

*All analyses in parts per million (ppm)

CONCLUSIONS AND RECOMMENDATIONS

Results of the laboratory analyses indicate that the total hydrocarbon levels in both the soil and water are above the acceptable levels set by the Regional Water Quality Control Board fuel leak guidelines. Because the material that was excavated during tank removal consisted only of pea-gravel, we believe that no environmental hazard will result from the backfilling of the pit. However, because of the presence of dissolved gasoline constituents in the groundwater, we recommend the installation of groundwater monitoring wells based on the Regional Water Quality Control Board Guidelines on fuel leaks. The recommended installation of monitoring wells will define the extent of the contamination.

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

Tab 3

CERTIFICATE OF ANALYSIS

JOB NO: 95-313
CLIENT: SEMCO
PROJECT NAME: 95-4219 GOODYEAR

DATE SAMPLED: 07-14-95
DATE EXTRACTED: 07-17-95
DATE ANALYZED: 07-17-95

BTXE AND GASOLINE RANGE ORGANICS BY EPA METHOD 8020/5030 AND 8015 M
DIESEL RANGE HYDROCARBONS BY EPA METHOD 8015 M
TEPH (OIL AND GREASE) BY EPA METHOD 5520 F

Sample No.	Client ID	Analyte	Result
95-313-01	#1-550-WO-N-6'	Benzene	ND
		Toluene	ND
		Ethylbenzene	ND
		Xylenes	ND
		Gasoline	ND
		Diesel	ND
		TEPH (5520 F)	ND
95-313-02	#2-550-WO-S-6'	Benzene	ND
		Toluene	ND
		Ethylbenzene	ND
		Xylenes	ND
		Gasoline	ND
		Diesel	ND
		TEPH (5520 F)	ND
95-313-03	#3-COMP SPOILS	Benzene	ND
		Toluene	ND
		Ethylbenzene	ND
		Xylenes	ND
		Gasoline	ND
		Diesel	ND
		TEPH (5520 F)	ND

Quality Control Quality Assurance Summary: Soil

Analyte	Method	Reporting limit		Blank	MS/MSD Recovery		RPD
Benzene	8020	5	ug/Kg	ND	AVG	98%	9
Toluene	8020	5	ug/Kg	ND			
Ethylbenzene	8020	5	ug/Kg	ND			
Xylenes	8020	10	ug/Kg	ND			
Gasoline	8015/5030	0.5	mg/Kg	ND	AVG	99%	12
Diesel	8015 M	1	mg/Kg	ND	AVG	99%	1
TEPH	5520 F	50	mg/Kg	ND	AVG	62%	8

ELAP CERTIFICATION NUMBER 1753

Reviewed and Approved by:

John Murphy
Laboratory Director

P.O. Box 5624 · South San Francisco, California 94083 · 415-588-2838 FAX 588-1950

cont Table 3

North State Environmental
Chemical Waste Disposal - Trucking - Consulting

CERTIFICATE OF ANALYSIS

JOB NO: 95-313
CLIENT: SEMCO
PROJECT NAME:95-4219 GOODYEAR

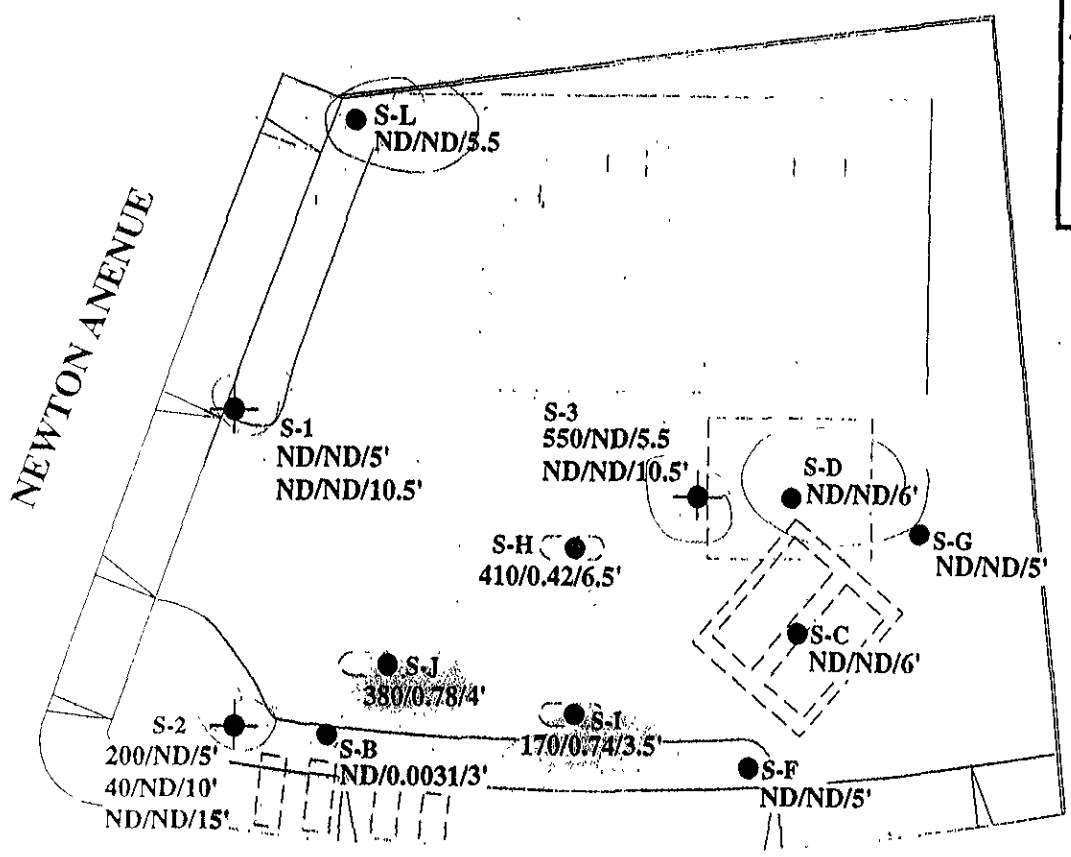
DATE SAMPLED: 07/14/95
DATE EXTRACTED:07/17/95
DATE ANALYZED: 07/17/95

HALOGENATED VOLATILE ORGANICS BY EPA SW-846 METHODS 5030/8010

RESULT OF ANALYSIS

Laboratory Number	95-313-01
Client ID:	#1-550-WO-N-6'
Matrix:	Soil
Analyte	Result
Chloromethane/Vinyl Chloride:	ND<20
Bromomethane/Chloroethane:	ND<20
Trichlorofluoromethane:	ND<10
1,1-Dichloroethene:	ND<5
Dichloromethane:	ND<10
1,1-Dichloroethane:	ND<5
t-1,2-Dichloroethene:	ND<5
cis-1,2-Dichloroethene:	ND<5
Chloroform:	ND<5
1,1,1-Trichloroethane:	ND<5
Carbon tetrachloride/1,2-Dichlorothane:	ND<10
Bromodichloromethane:	ND<5
1,2-Dichloropropane:	ND<5
2-Chloro-ethyl-vinyl-ether:	ND<5
c-1-3-Dichloropropene:	ND<5
Trichloroethene:	ND<5
Dibromochloromethane:	ND<5
1,1,2-Trichloroethane:	ND<5
t-1,3-Dichloropropene:	ND<5
Bromoform:	ND<10
Tetrachloroethene:	ND<5
1,1,2,2-Tetrachloroethane:	ND<5
Chlorobenzene:	ND<5
1,3-Dichlorobenzene:	ND<5
1,4-Dichlorobenzene:	ND<5
1,2-Dichlorobenzene:	ND<5
Concentration:	ug/Kg

P.O.Box 5624 • South San Francisco, California 94083 • 415-588-2838 FAX 588-1950



EXPLANATION

- Soil Boring
- Groundwater Monitoring Well
- 40/ND/10' TPH-G/Benzene/Depth in feet. Concentrations in parts per million.
- ND None detected

Note: Soil samples collected on 16-May-95 (Samples for S-1, S-2, & S-3 collected 15-Jun-95).

N

0 30

Scale in Feet

PLATE 4

SOIL CHEMICAL ANALYTICAL MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
95267

Drawn By: JWN

Date: 25-Jul-95

Approved By: JRS Date: 8-Aug-95

G:\OAKLAND 2101\FIGURES\EXPANDED-SITEPLAN.DWG

FIGURE 4

Former Shell Service Station
2101 Park Boulevard
Oakland, California
Incident #97088251

CAMBRIA

Site Plan

TABLE 5

GROUNDWATER CHEMICAL ANALYTICAL DATA

FORMER SHELL SERVICE STATION
2101 PARK BOULEVARD
OAKLAND, CALIFORNIA
WIC# 204-5508-1206

WELL NUMBER	DATE	TOP OF CASING ELEV. (ft)	DEPTH TO WATER (ft)	GROUND WATER ELEV. (ft)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYL BENZENE (PPB)	XYLENES (PPB)
S-D	16-May-95	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5
S-L	16-May-95	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5
S-1	20-Jun-95	11.93	4.67	7.26	160	<0.5	<0.5	<0.5	<0.5
S-2	20-Jun-95	12.06	5.80	6.26	180	1.1	<0.5	<0.5	0.6
S-3	20-Jun-95	13.54	4.90	8.64	5500	240	34	120	840
S-3 Dup	20-Jun-95	-	-	-	6300	270	37	120	1100

next spl. 9/20/95

Abbreviations:

ft = Measurements in feet
TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
PPB = Parts Per Billion.
<x = Not Detected at detection limit of x

Note: All wells surveyed to Mean Sea Level

Table 7 Laboratory Analytical Data for Groundwater Samples- Shell-branded Service Station - 2101 Park Blvd., Oakland, California

Sample ID	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE (EPA 8260)
		← Concentrations reported in µg/L (ppb) →						
EB-1	9/29/00	2,250	287	179	94.1	394	4.46	<5.00
EB-2	9/29/00	<50.0	<0.00500	<0.500	<0.500	<0.500	<2.50	NA

Abbreviations and Notes:

Concentrations reported in µg/L (ppb), converted from µg/kg.

TPHg = Total petroleum hydrocarbons as gasoline (EPA method 8015).

MTBE = Methyl tert-butyl ether by EPA Method 8020.

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

MTBE (EPA 8260) = Methyl tert-butyl ether by EPA Method 8260 (concentrations converted to parts per million).

NA = Not analyzed.

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	06/20/1995	180	NA	1.1	<0.5	<0.5	0.6	NA	NA	12.06	5.80	6.26	NA	NA
S-2	09/12/1995	190	NA	18	<0.5	1.2	0.6	NA	NA	12.06	5.78	6.28	NA	NA
S-2	12/28/1995	200	NA	11	1.0	1.0	4.0	NA	NA	12.06	4.02	8.04	NA	NA
S-2	03/25/1996	180	NA	12	0.8	1.4	1.0	<2.0	NA	12.06	5.56	6.50	NA	NA
S-2	06/27/1996	150	NA	7.7	0.79	0.93	0.5	<2.5	NA	12.06	6.00	6.06	NA	NA
S-2	09/26/1996	83	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.73	6.33	NA	NA
S-2	12/10/1996	78	NA	1.4	<0.50	0.57	<0.50	<2.5	NA	12.06	4.57	7.49	NA	NA
S-2	03/10/1997	61	NA	1.6	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.38	6.68	NA	NA
S-2 (D)	03/10/1997	77	NA	2.0	<0.50	0.69	<0.50	<2.5	NA	12.06	NA	NA	NA	NA
S-2	06/26/1997	90	NA	1.5	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.68	6.38	NA	NA
S-2 (D)	06/26/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	3.91	8.02	NA	NA
S-2	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2 (D)	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2	12/15/1997	<50	NA	4.1	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.35	6.71	NA	NA
S-2	03/12/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	4.71	7.35	NA	4.3
S-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	8.41	3.65	NA	2.2
S-2	08/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.23	6.83	NA	1.8
S-2	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.94	6.12	NA	1.4
S-2	03/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.75	6.31	NA	1.8
S-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.85	6.21	NA	9.7
S-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	6.42	5.64	NA	4.9
S-2	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.74	6.32	NA	2.5
S-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.42	6.64	NA	6.4
S-2	06/01/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.91	6.15	NA	2.1
S-2	09/28/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	6.11	5.95	NA	5.3

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

cont Table 8

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	06/08/1998	2500	420	220	23	170	600	<20	NA	13.54	5.60	7.94	NA	NA
S-3 (D)	06/08/1998	3200	NA	270	30	220	740	76	NA	13.54	NA	NA	NA	NA
S-3	06/17/1998	NA	NA	NA	NA	NA	NA	NA	NA	13.54	3.49	10.05	NA	NA
S-3	08/26/1998	4000	600	520	56	270	910	<50	NA	13.54	4.89	8.65	NA	1.9
S-3 (D)	08/26/1998	4100	500	550	65	320	1100	<2.5	NA	13.54	NA	NA	NA	NA
S-3	12/24/1998	3700	590	320	32	210	650	55	NA	13.54	4.93	8.61	NA	1.2
S-3	03/29/1999	5400	NA	530	62	400	1100	45	NA	13.54	4.61	8.93	NA	1.5
S-3	06/30/1999	5890	NA	589	83.4	406	1710	<50.0	NA	13.54	3.58	9.96	NA	1.5
S-3	09/30/1999	1930	NA	514	13.2	185	319	<50.0	NA	13.54	5.02	8.52	NA	1.6
S-3	12/29/1999	4500	NA	483	23.9	324	572	<62.5	NA	13.54	5.32	8.22	NA	2.1
S-3	03/07/2000	1940	NA	346	10.5	65.1	74.8	<50.0	NA	13.54	6.72	6.82	NA	0.88
S-3	06/01/2000	5200	NA	714	33.6	325	551	<50.0	NA	13.54	5.40	8.14	NA	1.8
S-3	09/28/2000	2690	NA	527	20.6	153	141	165	2.53	13.54	5.55	7.99	NA	1.4
S-3	12/11/2000	2300	NA	483	13.4	72.8	64.4	183	<5.00	13.54	5.20	8.34	NA	2.0

Field Exploratory Boring Log S-1

Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
9 12 25 12	S-1-5	Wellbox & Cement 0 to 1 ft. Bentonite 1 to 2 ft. 2-in. Sch. 40 PVC Lonestar #2/12 Sand 2-in. Sch. 40 PVC - 0.02-in. Slot 3 to 18 ft.	5		Clayey Sand (SC) Very dark grayish brown (2.5Y 3/2), moist, low plasticity, 55-65% fine sand, 30-40% clay, 5-15% silt. Silt (ML) Olive (5Y 5/3), moist, very stiff, low plasticity, 65-75% silt, 10-15% clay, 15-25% fine sand.
12 15 18 25	S-1-10.5		10		@ 9': As above, moist, hard.
15 35 23 35	S-1-15		15		Sand (SP) Olive gray (5Y 3/2), wet, very dense, 75-85% fine to coarse sand, 5-10% silt, 5-10% fine gravel.
5 12 19.4 17	S-1-18		20		@ 17': As above, color change to olive (5Y 5/3), wet, medium dense, 90-95% fine sand, 5-10% silt.
			25		
			30		Total Depth of Boring = 18 feet

BORING
S-1

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter	8 inches
Logged by:	J. Neely
Driller:	Gregg Drilling
Date Started:	15-Jun-95
Date Completed:	15-Jun-95

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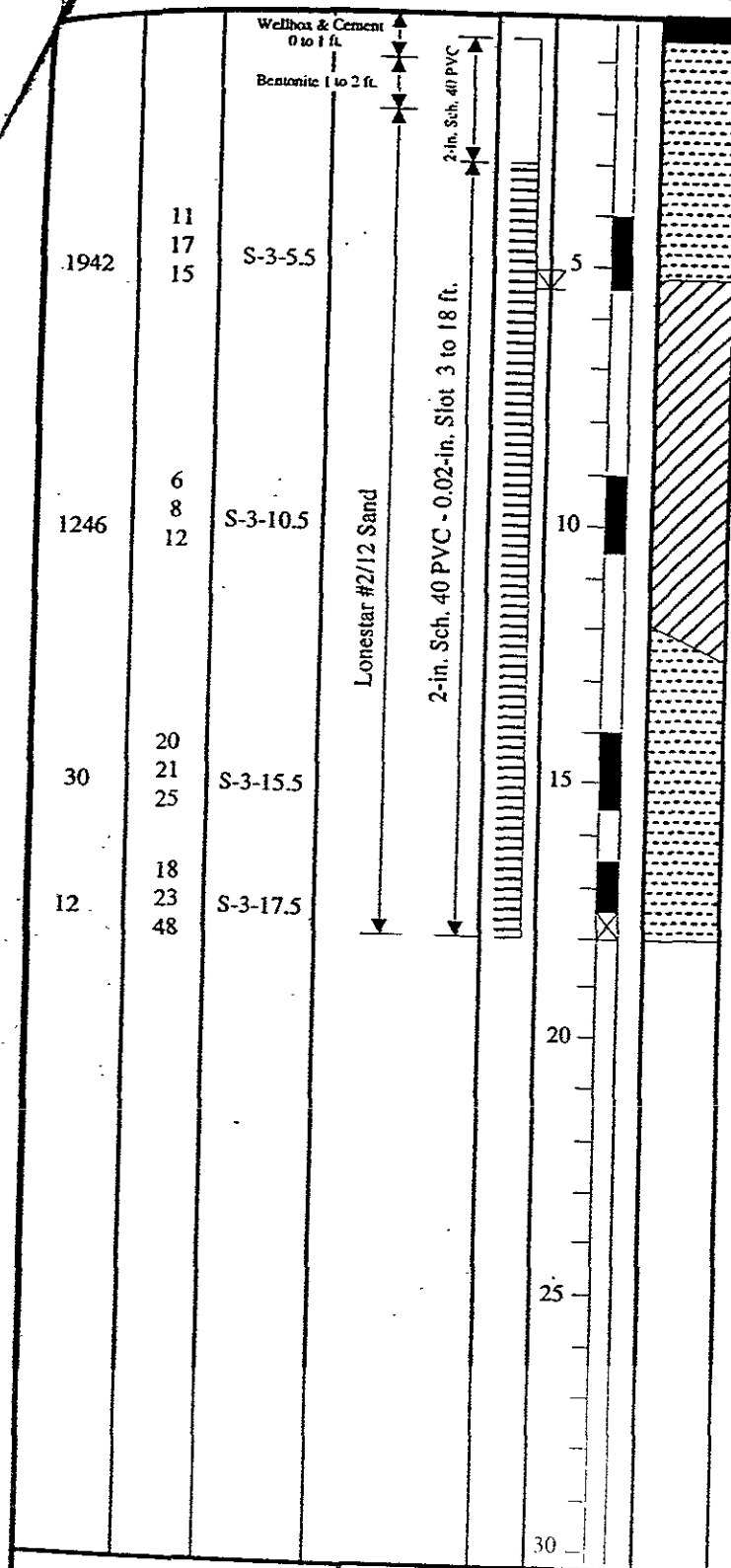
Field Exploratory Boring Log S-3



VM PM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
						6" concrete
						Sand (SP) Grayish brown (2.5Y 5/2), moist, loose, 90-95% fine to medium sand, 5-10% silt.
1942	11 17 15	S-3-5.5		5		Clay (CL) Dark olive gray (5Y 3/2), moist, moderate plasticity, 75-85% clay, 5-10% silt, 5-10% fine sand.
1246	6 8 12	S-3-10.5		10		@ 9': As above, moist, very stiff.
30	20 21 25	S-3-15.5		15		Sand (SP) Dark olive gray (5Y 3/2), wet, dense, 90-95% fine to coarse sand, 5-10% silt.
12	18 23 48	S-3-17.5				@ 16.5': As above, wet, very dense.
				20		Total Depth of Boring = 18 feet
				25		
				30		

BORING
S-3

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter	8 inches
Logged by:	J Neely
Driller:	Gregg Drilling
Date Started	15-Jun-95
Date Completed	15-Jun-95

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Field Exploratory Boring Log S-B

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
		S-B-3		5		Clayey Sand (SC - Fill) Very dark grayish brown (2.5Y 3/2), moist, low plasticity, 55-65% fine sand, 30-40% clay, 5-15% silt. Clay (CL) Olive gray (5Y 4/2), moist, moderate to high plasticity, 85-95% clay,0-5% silt, 5-10% fine sand.
				10		Total Depth of Boring = 6 feet (OVM data not available - OVM malfunction)
				15		
				20		
				25		
				30		

BORING
S-B

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter:	2 inches
Logged by:	J. Neely
Driller:	Vironex
Date Started:	16-May-95
Date Completed:	16-May-95

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Field Exploratory Boring Log S-D

Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
					Concrete and base rock
					Clay (CL)
					Olive gray (5Y 4/2), moist, low to moderate plasticity, 65-75% clay, 5-10% silt, 10-20% fine to coarse sand, 0-5% fine gravel.
					Gravel (GM)
					Olive gray (5Y 4/2), 85-95% fine gravel, 5-15% fine to coarse sand.
	S-D-6	▽	5		@ 4': As above, wet.
			10		Total Depth of Boring = 8 feet
					(OVM data not available - OVM malfunction)
			15		
			20		
			25		
			30		

BORING
S-D

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter:	2 inches
Logged by:	J. Neely
Driller:	Vironex
Date Started:	16-May-95
Date Completed:	16-May-95

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Field Exploratory Boring Log S-G

Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
					Concrete and base rock
					Clay (CL) Olive gray (5Y 4/2), moist, moderate plasticity, 75-85% clay, 10-20% fine to medium sand, 0-5% fine gravel. @ 3.5': Very moist
	S-G-5		5		Gravel (GM) Olive gray (5Y 4/2), 85-95% fine gravel, 5-15% fine to coarse sand.
			10		Total Depth of Boring = 8 feet (OVM data not available - OVM malfunction)
			15		
			20		
			25		
			30		

BORING
S-G

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter:	2 inches
Logged by:	J. Neely
Driller:	Vironex
Date Started	16-May-95
Date Completed	16-May-95

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Field Exploratory Boring Log S-I

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
						Concrete and base rock
						Clay (CL)
						Olive gray (5Y 4/2), moist, moderate to high plasticity, 85-95% clay, 5-10% silt. 0-5% fine sand.
		S-I-3.5	▽	5		@ 3.5': As above, wet.
				10		Total Depth of Boring =7.5 feet
						(OVM data not available - OVM malfunction)
				15		
				20		
				25		
				30		

BORING
S-I

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter:	2 inches
Logged by:	J. Neely
Driller:	Vironex
Date Started.	16-May-95
Date Completed.	16-May-95

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Field Exploratory Boring Log S-L

Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
	S-L-5.5	▽	5 10 15 20 25 30		Clay (CL) Dark olive brown (2.5Y 4/2), moist, low plasticity, 65-70% clay, 10-15% silt, 15-25% fine sand, rootlets. @ 3': As above, very moist at 4'. @ 5': As above, color change to greenish gray (5GY 5/1), moist, no rootlets. Total Depth of Boring = 8 feet (OVM data not available - OVM malfunction)

BORING
S-L

SHELL OIL COMPANY
Former Shell Service Station
2101 Park Boulevard
Oakland, California

Borehole Diameter:	2 inches
Logged by:	J. Neely
Driller:	Vironex
Date Started.	16-May-95
Date Completed:	16-May-95

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