5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-547-5420

April 27, 1992

Dan Kirk Shell Oil Company P.O. Box 5278 Concord, California 94520-9998

> Re: Subsurface Investigation Shell Service Station WIC #204-6852-0703 1285 Bancroft Avenue San Leandro, California WA Job #81-423-02

Dear Mr. Kirk:

This letter presents the results of Weiss Associates' (WA) subsurface investigation at the Shell service station referenced above (Figure 1). The investigation objectives were to assess whether hydrocarbons are in soil and ground water downgradient of the existing underground fuel storage tanks and to determine the ground water flow direction and gradient beneath the site, as outlined in WA's September 23, 1991 workplan.¹

SCOPE OF WORK

WA's scope of work for this investigation was to:

- Drill and sample one boring within 10 ft of the anticipated downgradient side of the underground fuel storage tanks and install a ground water monitoring well in the boring (Figure 2),
- Install a ground water monitoring well on the anticipated upgradient side of the site to assess water quality upgradient of the tanks, and
- Assess the ground water flow direction and gradient using data from the two newly installed wells and one existing ground water monitoring well.

WA, September 23, 1991, Consultant's letter-workplan regarding the proposed installation of two ground water monitoring wells at the Shell service station at 1285 Bancroft Avenue in San Leandro, California, 4 pages.



INVESTIGATION RESULTS

Site Setting

Topography:

The site is located about 0.75 miles west of the San Leandro Hills and about 500 ft south of San Leandro Creek (Figure 1). The site is flat and is about 65 ft above mean sea level.

Surroundings:

Mixed commercial and residential development.

Nearby Hydrocarbon Sources:

California Regional Water Quality Control Board - San Francisco Bay Region records indicate a fuel leak investigation cross- and downgradient of the site at the Garcia property, located at the southwestern corner of Bancroft and Callan Avenues (Figure 3).

Wells in the Site Vicinity:

21 wells are within one-half mile of the site. One domestic supply well is located about 0.5 mile northeast (crossgradient) of the site. A domestic or irrigation supply well is located within 500 ft west (cross- and downgradient) and within 500 ft east (cross- and upgradient) of the site (Figure 4, Table 1).

Regional Setting:

Sediments in the site vicinity are Quaternary alluvial deposits derived from Mesozoic marine and Pliocene and Mesozoic intrusive rocks of the Diablo Range. The Hayward Fault Zone is less than one mile east of the site.

Previous Investigations

1986 Waste Oil Tank Removal: In November 1986, Petroleum Engineering of Santa Rosa, California removed a 550-gallon waste oil tank and installed a new 550-gallon fiberglass tank in the former tank pit. Immediately following the tank removal, Blaine Tech Services (BTS) of San Jose, California collected soil samples beneath the former tank location at 9 ft depth. The soil samples contained 83 parts per million (ppm) petroleum oil and grease and 583 ppm total oil and grease (TOG).² After additional excavation, BTS collected another soil sample

BTS, November 21, 1986, Sampling Report 86315-M1, Shell Service Station, 1285 Bancroft Avenue, San Leandro, California, Consultant's letter-report prepared for Shell Oil Company, 3 pages and 2 attachments.



at 9.5 ft depth which contained 89 ppm TOG. No ground water was encountered in the tank excavation.

1990 Well Installation: In March 1990, WA installed ground water monitoring well MW-1 adjacent to the waste oil tank.³ The boring log for well MW-1 is included in Attachment B. Analytic results for soil from this boring are compiled in Table 2. WA has sampled well MW-1 quarterly since March 1990. Previous ground water analytic and elevation data are compiled in Tables 3 and 4, respectively.

Drilling

Drilling Dates:

February 7 and 8, 1992

Drilling Geologist:

Tom Fojut

Drilling Method:

CME-55 hollow-stem auger drill rig. (See Attachment

A for drilling and sampling procedures.)

Number of Borings:

2 (BH-B and BH-C, Figure 2)

Boring Depths:

60 ft, each boring

Number of Wells:

2 (MW-2 and MW-3, Figure 2)

Sediments Encountered:

Clayey and sandy silt to about 45 ft depth; silty sand to gravelly sand between about 45 and 60 ft depth. The boring logs and well construction details are

presented in Attachment B.

Waste Disposal:

Soil cuttings were disposed at the Browning-Ferris, Inc. (BFI) landfill in Livermore, California as Class III waste; steam clean rinsate and purge water were recycled at the Shell Refinery in Martinez, California.

WA, July 31, 1990, Consultant's letter-report prepared for the Alameda County Department of Environmental Health (ACDEH) regarding second quarter 1990 activities at the Shell service station located at 1285 Bancroft Avenue in San, Leandro, California, 10 pages and 2 attachments.

Veiss Associates

Well Construction

Well Materials:

4-inch diameter Schedule 40 PVC well casing with

0.010-inch slotted screen; Monterey #1/20 sand

Screened Interval:

About 40 to 60 ft depth for each well

Well Development Method:

Surge block agitation and airlift evacuation

Flow Rate:

2 to 3 gallons per minute during well development

Ground Water Depth:

40 to 45 ft below grade (Table 4)

Ground Water Flow Direction:

North-northwestward with a gradient of about 0.038

ft/ft (Figure 2)

HYDROCARBON DISTRIBUTION IN SOIL

Boring BH-B was drilled southeast of the existing underground fuel storage tank near the property line to install a ground water monitoring well upgradient of the tanks. BH-C was drilled immediately northwest of the tanks to assess whether hydrocarbons are in soil and to install a ground water monitoring well downgradient within ten ft of the tanks. Soil samples from between 27 and 49 ft depth in boring BH-B contained hydrocarbons, at a maximum of 8,800 ppm total petroleum hydrocarbons as gasoline (TPH-G). Samples from near the water table in boring BH-C contained up to 64 ppm TPH-G (Table 2, Attachment C). No soil samples from shallower than 27 ft were analyzed since no volatile hydrocarbons were detected using a photoionization detector and since no hydrocarbon odor or staining was observed. These analytic results indicate that the highest hydrocarbon concentrations are restricted to soil near the water table between 40 and 50 ft depth.

HYDROCARBON DISTRIBUTION IN GROUND WATER

Monitoring wells MW-2 and MW-3 were installed in borings BH-B and BH-C, respectively. Well screening and construction details are presented in Attachment B. Although ground water



samples from well MW-2 contained 1.0 ppm TPH-G and 0.0043 ppm benzene, no TPH-G or BETX were detected in ground water from pre-existing well MW-1 or in well MW-3 (Table 3, Attachment D). Based on these ground water analytic results, petroleum hydrocarbons in ground water appear to be currently limited to well MW-2. Although less than 0.02 ppm chloroform and tetrachloroethene (PCE) were detected in ground water from all three wells, these compounds were not detected in unsaturated soil from any of the borings, except 0.0020 ppm PCE in soil from 9.2 ft depth in boring BH-A.

5

We appreciate this opportunity to provide hydrogeologic consulting services to Shell and trust this submittal meets your needs. Please call if you have any questions or comments.

Sincerely,

Weiss Associates

Thomas Fojut Staff Geologist

N. Scott MacLeod Project Geologist

Joseph P. Theisen, C.E.G. Senior Hydrogeologist

TF/NSM/JPT:fcr

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Attachments:

Figures

CERTIFIED

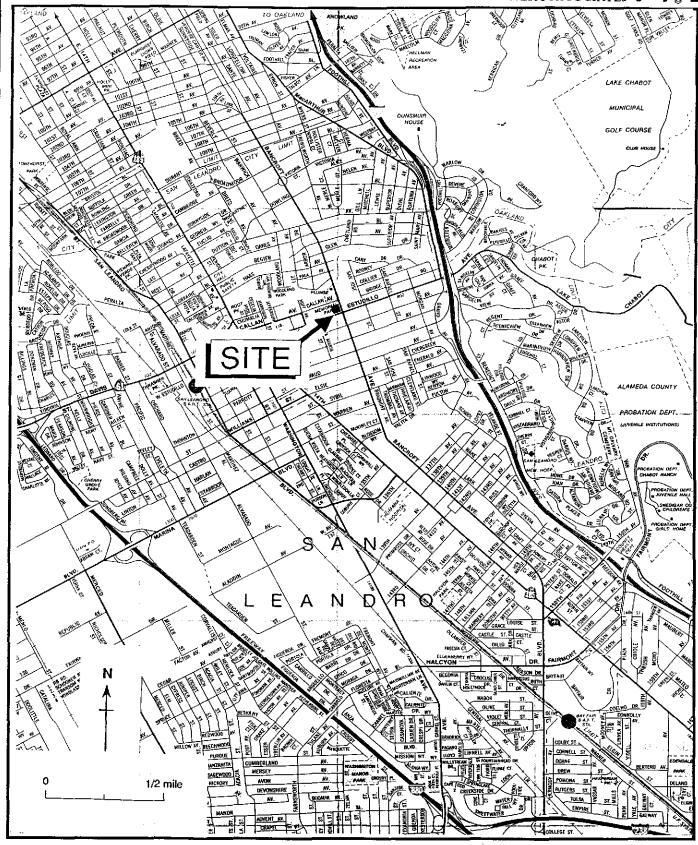
Tables

A - Sampling Procedures

B - Boring Logs

C - Analytic Results for Ground Water

D - Analytic Results for Soil



 $j = \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$

Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



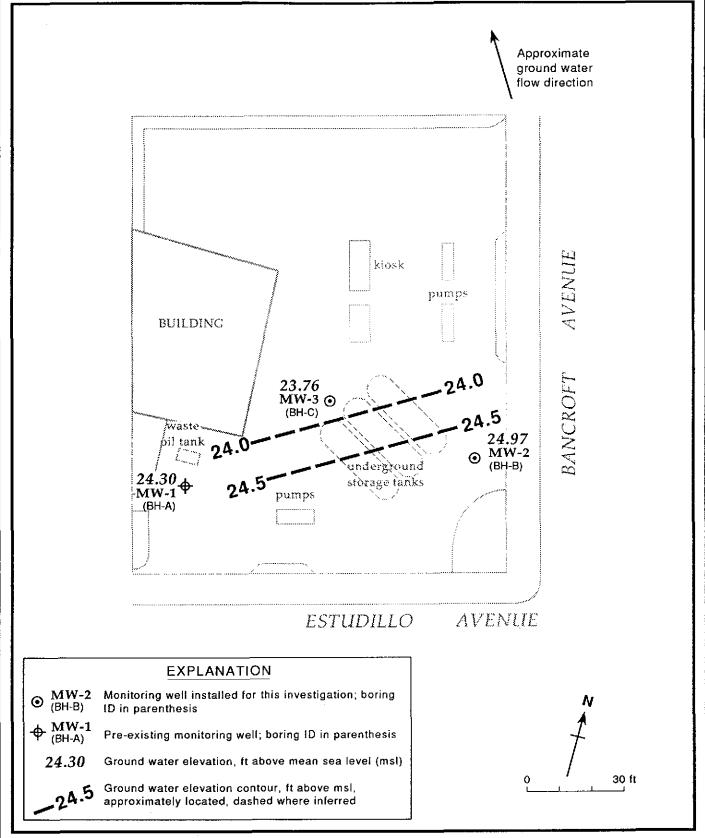


Figure 2. Monitoring Well Locations and Ground Water Elevations - February 24, 1992 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



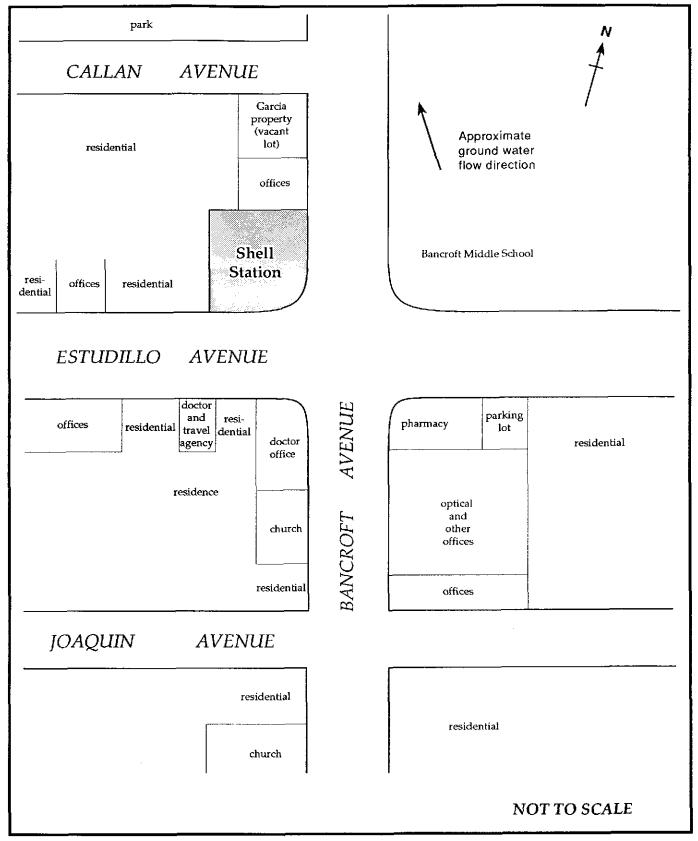


Figure 3. Businesses and Properties in the Site Vicinity - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

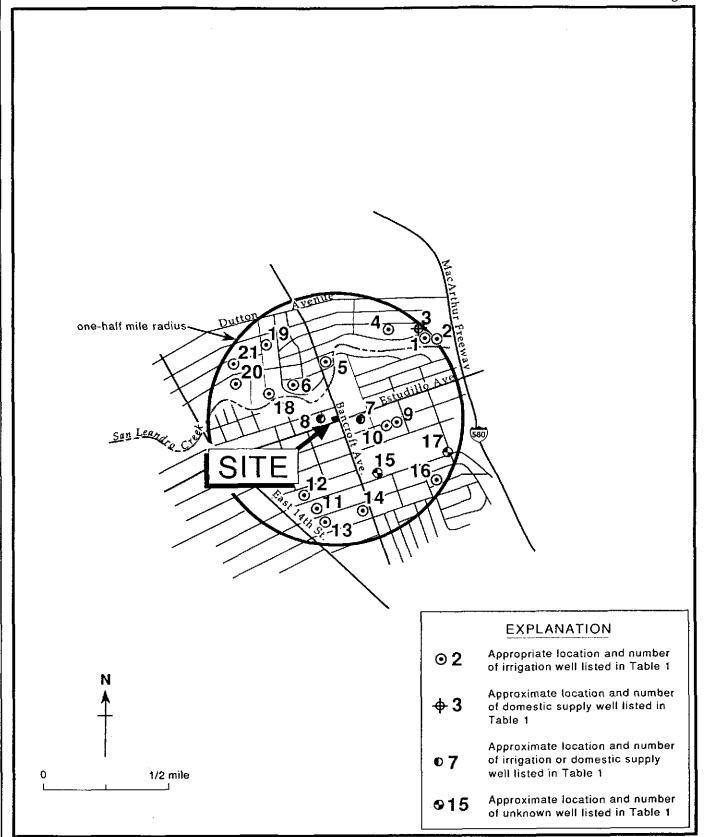


Figure 4. Wells Within One-Half Mile of Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



Table 1. Wells Located Within One-Half Mile of Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

ID	Owner	Location	Use	Year Drilled
1	Arthur H. Lund	1123 Glen Dr	Irrigation	1977
2	Ole Juul	881 St. Mary Ave	Irrigation	1991
3	Brad Jones	1374 Glen Dr	Domestic	1991
4	Bob Eversole	833 Begier Ave	Irrigation	1977
5	O.R. Johnson - J. Stanisich	1030 Bancroft Ave	Irrigation	1977
6	J.A. Thompson	523 Pala Ave	Irrigation	1977
7	Dr. A.W. Scalasy	659 Estudillo Ave	Irrigation or Domestic	1933
8	Chasi Hale	566 Estudillo Ave	Irrigation or Domestic	1937
9	Emil Sereda	769 Joaquin Ave	Irrigation	1977
1.0	James R. Meyer	745 Joaquin Ave	Irrigation	1977
11	Tony Yacek	353 Maud	Irrigation	1977
12	H.C. Silliman III	465 Dolores Ave	Irrigation	1977
13	Luke & Olive Deasy	309 Elsie St	Irrigation	1988
14	George Bradley Land, III	655 Elsie St	Irrigation	1977
15	Sal Julione	646 Maude Ave	unknown	1949
16	Edmond Saustina	862 Emeral Ave	Irrigation	1977
17	Funucchi	Maud Ave & Morgan	unknown	1947
18	P.M. Rice	337 Woodland Pk	Irrigation	1977
19	Tom W. Saedden	730 Woodland Ave	Irrigation	1977
20	Davis C. Henrichsen	961 Karol Wy	Irrigation	1977
21	Dennis F. Omick	261 Bergier Ave	Irrigat <u>ion</u>	1977

	Table 2.	Analytic Results for So	oil - Shell Service Station WIC #204-6852-0703,	1285 Bancroft Avenue, San Leandro, California
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	Sample		Ground Water	TPH-G	TPH-D	POG ^a	В	Ε	T	Х	PCE	HVOC
Boring ID (Well ID)	Depth (ft)	Date Sampled	Depth (ft)	<			oarts per mil	lion (mg/kg))			>
BH-À		03/06/90	43.0	<1		<100	<0.0025	<0.0025	<0.0025	<0.0025	William !	h
(MW-1)	19.7	03/00/70	45.0	<1		<100	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	b
	29.7			<1		<100	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	ь
	39.7			<1	1.6 ^c	<100	<0.0025	<0.0025	<0.0025	0.0057	<0.0020	b
	*2000			<1		<100	<0.0025	<0.0025	<0.0025	<0.0025		ь
•				<1		<100	<0.0025	<0.0025	<0.0025	<0.0025	F 10.31	E. b
3H-B	27.5	02/06/92 a	44.8	1,500	1,00 0		<0.25	0.82	<0.25	6.9	<0.002	ь
(MW-30	31.5	A CHARLES A. C. J.	44.0	12			<0.0025	0.0090	<0.0025	0.058		
C. 194 HAR	36.5			. 71	16 ^d		<0.025	0.056	<0.025	0.21	<0.002	b
	41.55 4.25 2.35			3400			<1.25	19	<1.25	46		
	44-5			8,800	4 . 500		<2.5	7	<2.5	170	<0.002	b
	4895			19			<0.025	<0.025	<0.025	0.092	•••	
3H-C	31.5	02/07/92	44.9	<1			<0.0025	<0.0025	<0.0025	<0.0025		
(MW-37)	36.5	,, /-	.4.,	<1	<1		<0.0025	<0.0025	<0.0025	<0.0025	<0.002	b
	41.5			64			<0.025	<0.025	<0.025	0.25		
	44.5			45	29 ^d		<0.025	<0.025	<0.025	0.25	<0.002	b
	48.5			15			<0.0025	<0.0025	<0.0025	0.60		

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method

POG = Petroleum oil and grease by American Public Health Association (APHA) Standard Method 503E

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

PCE = Tetrachloroethene by EPA Method 8010

 ${ t HVOCs}$ = ${ t Halogenated}$ volatile organic compounds by EPA Method 8010

--- = Not analyzed

<n = Not detected above method detection limit of n ppm</pre>

Analytical Laboratory:

National Environmental Testing (NET) Pacific, Inc., Santa Rosa, California

Notes:

- a = No total oil and grease detected above APHA Standard Method 503D detection limit of 50 ppm in any soil sample from boring BH-A
- b = No HVOCs detected
- c = No total petroleum hydrocarbons as motor oil detected at modified EPA Method 8015 detection limit of 10 ppm
- d = NET reported that the detected compound is a hydrocarbon lighter than diesel

										VOC	se
Well	Date	Depth to	TPH-G	TPH-D	В	Ē	T	X	POG	PCE	CHLOR
ID	Sampled	Water (ft)	<				mg/l (ppm)				>
1W-1	03/08/90	42.65	0.51	1.3ª_	<0.0005	0.0015	0.0011	0.0087	<10	0.035	0.0063
	06/12/90	43.14	0.39	0.34 ⁸	<0.0005	0.0023	<0.0005	0.0055	<10	0.0019	0.063
	09/13/90	44.71	0.10	0.16 ^a	<0.0005	<0.0005	<0.0005	<0.0005	<10	0.026	0.0090
	12/18/90	45.23	0.48	<0.05 ^a	<0.0005	<0.0005	<0.0005	0.0035	<10	<0.0004	0.0053
	03/07/91	43.32	0.08	ስ ሰለ ⁸	<0.0005	<0.0005	<0.0005	<0.0005		0.023	0.0037
	06/07/91	42.18	0.31	<0.05 ^{ac}	<0.0005	<0.0005	<0.0005	0.0021		0.021	0.0066
	09/17/91	44.85	0.05 ^b	0.16 ^C	<0.0005	<0.0005	<0.0005	<0.0005		0.023	0.0074
	12/09/91	45.59	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005		0.016	0.0068
1W-2	02/24/92	41_94	1.0	0.26 ^C	0.0043	0.012	0.0011	0.023		0.013	0.011
1W-3	02/24/92	42.55	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005		0.011	0.0034
Trip											
Blank	03/08/90		<0.05		<0.0005	<0.0005	<0.0005	<0.0005			
	06/12/90		<0.05	* ~ ~	<0.0005	<0.0005	<0.0005	<0.0005			
	12/18/90		<0.05		<0.0005	<0.0005	<0.0005	<0.0005			
	03/07/91		<0.05	• • •	<0.0005	<0.0005	<0.0005	<0.0005			
	06/07/91		<0.05		<0.0005	<0.0005	<0.0005	<0.0005			
	09/17/91		<0.05		<0.0005	<0.0005	<0.0005	<0.0005			
	12/09/91		0.08		<0.0005	<0.0005	0.0006	<0.0005			
DTSC M	CLs		NE	NE	0.001	0.680	0.10 ^đ	1.750	NE	0.005	NE

Abbreviations:

- TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
- TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
- POG = Petroleum oil and grease by American Public Health Association Standard Method 503E
- B = Benzene by EPA Method 602
- E = Ethylbenzene by EPA Method 602
- T = Toluene by EPA Method 602
- X = Xylenes by EPA Method 602
- VOCs = Volatile organic compounds by EPA Method 601
- PCE = Tetrachloroethene by EPA Method 601
- CHLOR = Chloroform by EPA Method 601
- --- = Not analyzed
- <n = Not detected at detection limit of n ppm</pre>
- DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
- NE = Not established

Analytical Laboratory:

National Environmental Testing (NET) Pacific, Inc., Santa Rosa, California

Notes:

- a = No total petroleum hydrocarbons as motor oil detected at modified EPA Method 8015 detection limit of 0.5 ppm
- b = Result due to a non-gasoline hydrocarbon compound
- c = Result due to a hydrocarbon compound lighter than diesel
- d = DTSC recommended action level for drinking water; MCL not established
- e = No VOCs other than PCE and chloroform detected

TABLE 4. Ground Water Elevations - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
N # 33 / 1	02 /12 /00	66.20	42.65	22.64
MW-1	03/13/90	66.29	42.65	23.64
	06/12/90		43.14	23.15
	09/13/9 0		44.71	21.58
	12/18/90		45.23	21.06
	03/07/91		43.32	22.97
	06/07/91		42.18	24.11
	09/17/91		44.85	21.44
	12/09/91		45.59	20.70
	02/13/92		43.99	22.30
	02/24/92		41.99	24.30
MW-2	02/13/92	66.91	43.97	22.94
	02/24/92	•	41.94	24.97
MW-3	02/13/92	66.31	44.59	21.72
	02/24/92		42.55	23.76

STANDARD FIELD PROCEDURES

WA has developed standard procedures for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures comply with Federal, State and local regulatory guidelines. Specific procedures are summarized below.

SOIL BORING AND SAMPLING

Objectives/Supervision

Soil sampling objectives include characterizing subsurface lithology, assessing whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and collecting samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG).

Soil Boring and Sampling

Deep soil borings or borings for well installation are typically drilled using hollow-stem augers. Split-barrel samplers lined with steam-cleaned brass or stainless steel tubes are driven through the hollow auger stem into undisturbed sediments at the bottom of the borehole using a 140 pound hammer dropped 30 inches. Soil samples can also be collected without using hollow-stem augers by progressively driving split-barrel soil samplers to depths of up to 30 ft.

Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Near the water table and at lithologic changes, the sampling interval may be less than five ft.

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

Sample Analysis

After noting the lithology at each end of the sampling tubes, the tube chosen for analysis is immediately trimmed of excess soil and capped with teflon tape and plastic end

caps. The sample is labelled, stored at or below 4°C, and transported under chain-of-custody to a State-certified analytic laboratory.

Screening_

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

Grouting

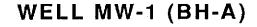
If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe. If wells are completed in the borings, the well installation, development and sampling procedures summarized below are followed.

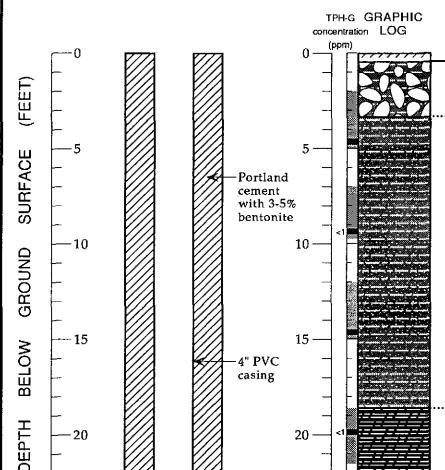
MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

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

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two ft thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of cement with 3-5% bentonite.





DESCRIPTION

Asphaltic concrete

Silty GRAVEL (GM); red-brown; loose; damp; 30% silt; 25% fine to coarse sand; 45% gravel to 1" diameter; low to moderate K [fill] Sandy SILT (ML); dark brown; medium stiff; damp; 80% silt; 20% fine to medium sand; low plasticity; moderate K; rootlets and grasses

Clayey SILT (ML); medium brown; stiff; damp; 15% clay; 70% silt; 15% fine to medium sand; low plasticity; low to moderate K

EXPLANATION

Water level during drilling (date) ¥ ∇ Water level (date)

Contact (dotted where approximate)

بإبابابابابابلىلىلىلىلىلىلىل

-?---?- Uncertain contact Gradational contact

Location of recovered drive sample Location of drive sample sealed for chemical analysis

Cutting sample K = Estimated hydraulic conductivity Logged By: Karin Sixt

Supervisor: Richard B. Weiss; CEG 1112 Drilling Company: HEW Drilling, East Palo Alto, CA

License Number: C57-384167 Driller: Casto Pineda

Drilling Method: Hollow-stem auger Date Drilled: March 6, 1990

Well Head Completion: 4" locking well-plug, traffic-rated vault

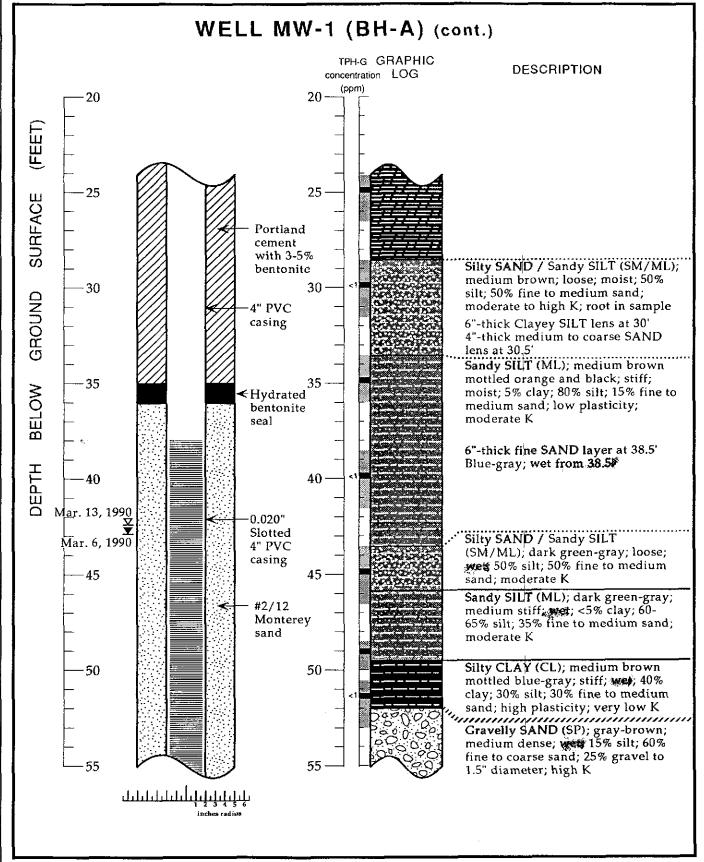
Type of Sampler: Split barrel (1.5", 2" ID)

Ground Surface Elevation: 66.60 feet above mean sea level

TPH-G: Total petroleum hydrocarbon as gasoline

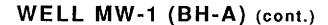
in soil by modified EPA Method 8015

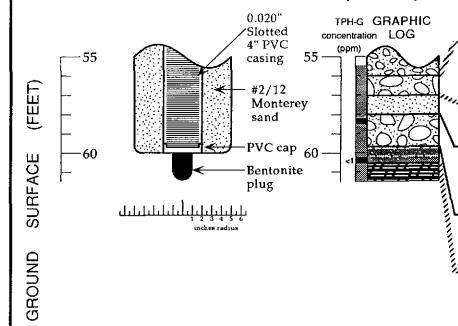
Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

MA





BELOW

DESCRIPTION

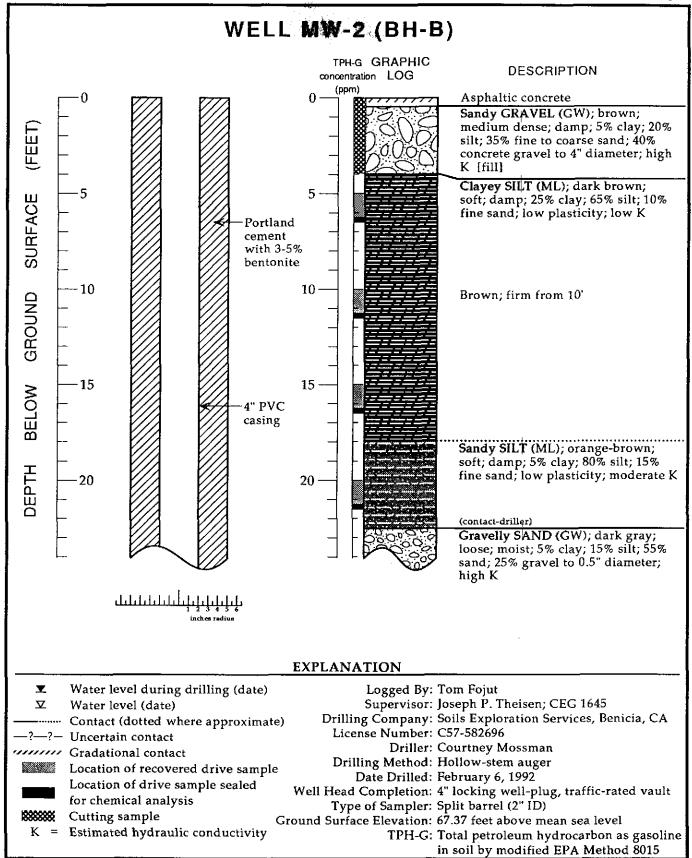
Sandy GRAVEL (GP); gray-brown; medium dense to dense; et; 10% silt; 40% fine to coarse sand; 50% gravel to 1.5" diameter; high K SAND (SP); gray-brown; loose; et; 10% silt; 85% fine to medium sand; 5% coarse sand; high K

Sandy GRAVEL (GP); gray-brown; medium dense to dense; 10%; 10% silt; 40% sand; 50% gravel to 1.5" diameter; high K 6"-thick SAND lens at 58.5'

Sandy SILT(ML); light brown; soft; 5% clay; 65% silt; 30% fine to coarse sand; low plasticity; low to moderate K

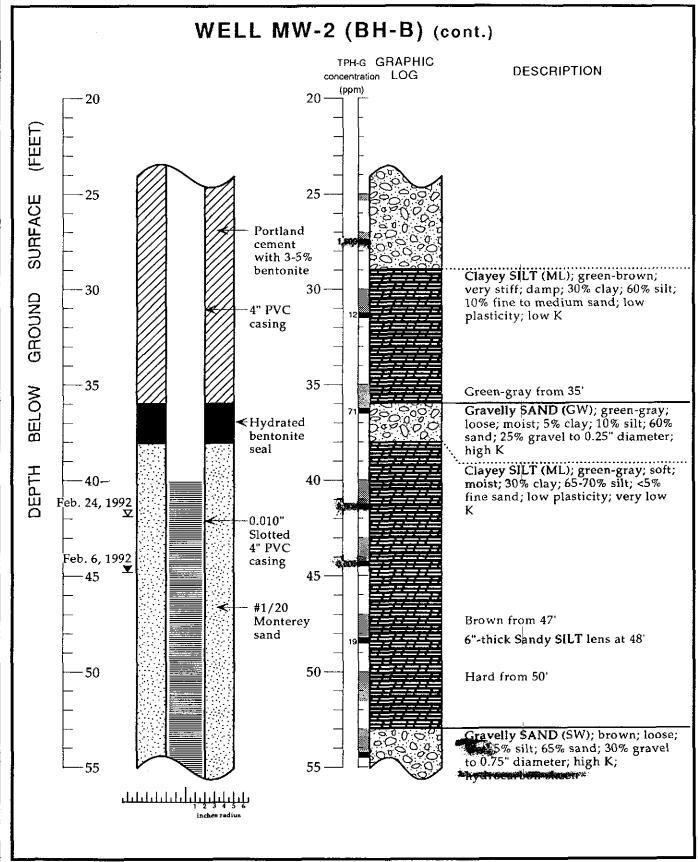
Clayey SILT (ML); orange-brown; stiff; wel; 20% clay; 65% silt; 15% fine to medium sand; medium plasticity; very low K

Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



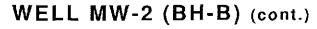
Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

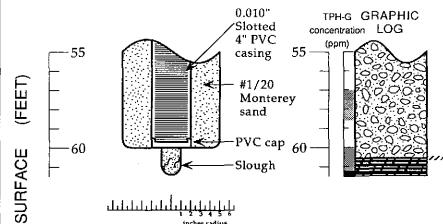




Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California





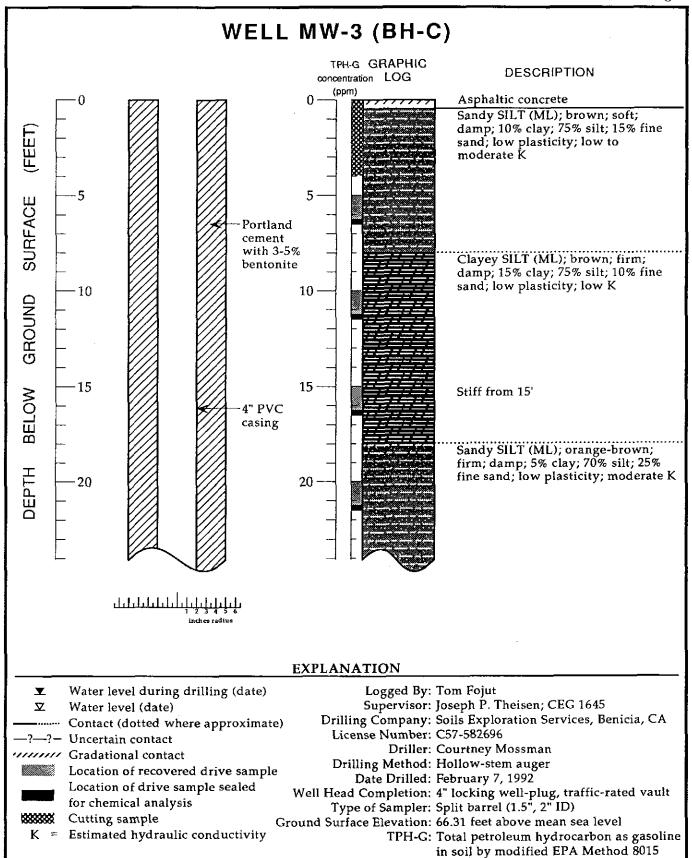


DESCRIPTION

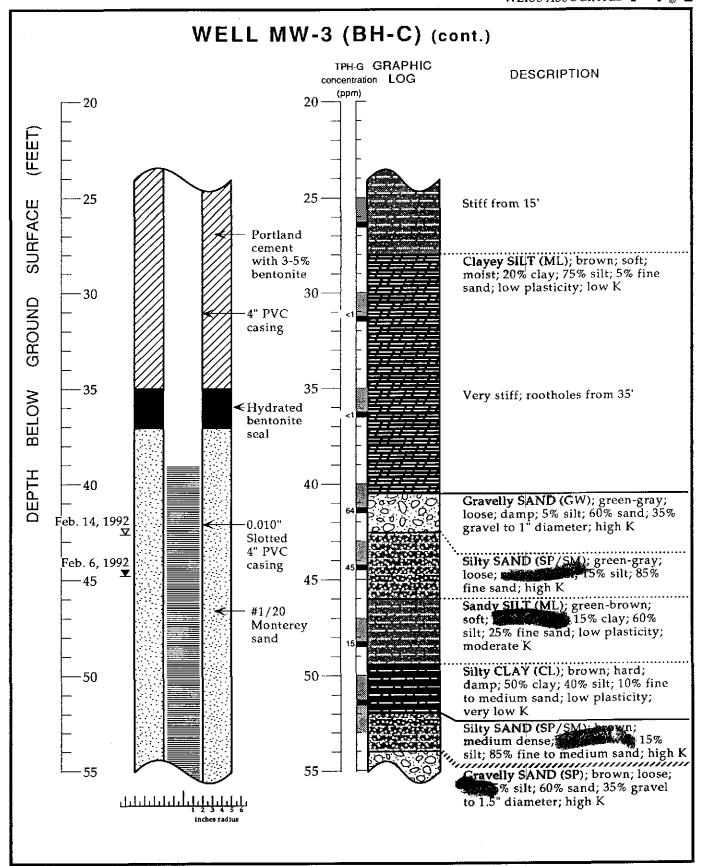
Clayey SILT (ML); brown; firm; 35% clay; 60% silt; 5% fine to medium sand; low plasticity; low K

DEPTH BELOW GROUND

Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

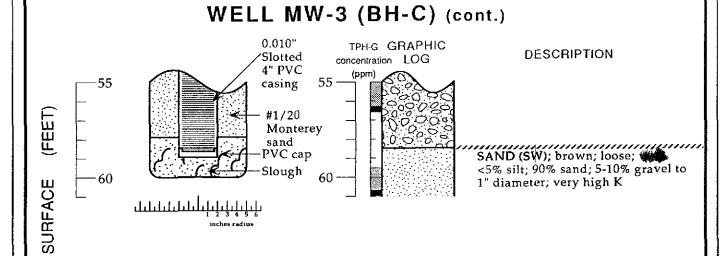


Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California





DEPTH BELOW

GROUND

Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Tom Fojut Weiss Associates 5500 Shellmound St. Emeryville, CA 94608 Date: 02/19/1992

NET Client Acct. No: 1809 NET Pacific Log No: 92.0688

Received: 02/11/1992

Client Reference Information

Shell, 1285 Bancroft Ave., San Leandro

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skameradk Laboratory Manager

Enclosure(s)



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 2

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 31.5

Date Taken: 02/06/1992 Time Taken: 11:05 LAB Job No: (-113449)

,	•	Reportin		
Parameter	Method	Limit	Results	Units
TPH (Gas/BTXE,Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-11-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	12	mg/Kg
SURROGATE RESULTS				•. •
Bromofluorobenzene	5030		154 **	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-11-92	
DILUTION FACTOR*			1	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	0.0090	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	0.058	mg/Kg
M120.000 (100d1)	0020	0.0023	0.000	

^{**} Matrix interference.



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992 Page: 3

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 41.5

> Date Taken: 02/06/1992 Time Taken: 12:00 LAB Job No: (-113450)

21.5 000 110. (1154	J			
		Reportin	~	
Parameter_	Method	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			500	
as Gasoline	5030	1	3,500	mg/Kg
SURROGATE RESULTS			<u></u>	2. 2
Bromofluorobenzene	5030		152 **	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			500	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	19	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	46	mg/Kg

^{**} Matrix interference.



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 4

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 48.5

Date Taken: 02/06/1992 Time Taken: 12:45 LAB Job No: (-113451)

	,	Reportin	_	
<u>Parameter</u>	Method	<u>Limit</u>	Results	<u>Units</u>
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
as Gasoline	5030	1	19	mg/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		99	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	ND	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	0.092	mg/Kg



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 5

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 31.5

Date Taken: 02/06/1992 Time Taken: 09:25 LAB Job No: (-113452)

•	· · · · /			
Parameter	Method	Reportin Limit	g Results	Units
	11001100	222.	TOUGHTU	UNITED
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
SURROGATE RESULTS				3, 3
Bromofluorobenzene	5030		80	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			1	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	ND	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	ND	mg/Kg



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 6

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 41.5

Date Taken: 02/06/1992 Time Taken: 09:55 LAB Job No: (-113453)

		Reporting	g		
Parameter	Method	Limit	Results	Units	
TPH (Gas/BTXE,Solid)					
METHOD 5030 (GC, FID)					
DATE ANALYZED			02-11-92		
DILUTION FACTOR*			10		
as Gasoline	5030	1	64	mg/Kg	
SURROGATE RESULTS				J. J	
Bromofluorobenzene	5030		125	% Rec	
METHOD 8020 (GC, Solid)					
DATE ANALYZED			02-11-92		
DILUTION FACTOR*			10		
Benzene	8020	0.0025	ND	mg/Kg	
Ethylbenzene	8020	0.0025	ND	mg/Kg	
Toluene	8020	0.0025	ND	mg/Kg	
Xylenes (Total)	8020	0.0025	0.25	mg/Kg	



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992 Page: 7

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 48.5

Date Taken: 02/06/1992 Time Taken: 10:40 LAB Job No: (-113454)

nit Results	Units
02-11-92	
1	
15	mg/Kg
193 **	% Rec
	
02-11-92	
1	
0025 ND	mg/Kg
0025 ND	mg/Kg
0025 ND	mg/Kg
0.060	mg/Kg
	02-11-92 1 15 193 ** 02-11-92 1 0025 ND 0025 ND

^{**} Matrix interference.



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 8

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 27.5

Date Taken: 02/06/1992 Time Taken: 10:50 LAB Job No: (-113455)

•	•	Reportin	•	
Parameter	Method	<u>Limit</u>	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*	5000	_	100	/**
as Gasoline	5030	1	1,500	mg/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		183 **	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			100	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	0.82	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	6.9	mg/Kg
METHOD 3550 (GC, FID)				<i>3.</i> 3
DILUTION FACTOR*			50	
DATE EXTRACTED			02-12-92	
DATE ANALYZED			02-16-92	
as Diesel	3550	1	1,000 **	mg/Kg
	· =		•	3, 3

^{**} Matrix interference.

^{***} NOTE: Petroleum hydrocarbon as diesel result is due to a petroleum hydrocarbon that is lighter than diesel.



Client Acct: 1809 Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992 Page: 9

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 27.5

Date Taken: 02/06/1992 Time Taken: 10:50 LAB Job No: (-113455)

,	,	Reportin	g	
Parameter	Method	<u>Limit</u>	Results	Units
METHOD 8010 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	0.002	ND	mg/Kg
Bromoform	8010	0.002	ND	mg/Kg
Bromomethane	8010	0.002	ND	mg/Kg
Carbon tetrachloride	8010	0.002	ND	mg/Kg
Chlorobenzene	8010	0.002	ND	mg/Kg
Chloroethane	8010	0.002	ND	mg/Kg
2-Chloroethylvinyl ether	8010	0.005	ND	mg/Kg
Chloroform	8010	0.002	ND	mg/Kg
Chloromethane	8010	0.002	ND	mg/Kg
Dibromochloromethane	8010	0.002	ND	mg/Kg
1,2-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,3-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,4-Dichlorobenzene	8010	0.002	ND	mg/Kg
Dichlorodifluoromethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethane	8010	0.002	ND	mg/Kg
1,2-Dichloroethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethene	8010	0.002	ND	mg/Kg
trans-1,2-Dichloroethene	8010	0.002	ND	mg/Kg
1,2-Dichloropropane	8010	0.002	ND	mg/Kg
cis-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
trans-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
Methylene chloride	8010	0.050	ND	mg/Kg
1,1,2,2-Tetrachloroethane	8010	0.002	ND	mg/Kg
Tetrachloroethene	8010	0.002	ND	mg/Kg
1,1,1-Trichloroethane	8010	0.002	ND	mg/Kg
1,1,2-Trichloroethane	8010	0.002	ND	mg/Kg
Trichloroethene	8010	0.002	ND	mg/Kg
Trichlorofluoromethane	8010	0.002	ND	mg/Kg
Vinyl chloride	8010	0.002	ND.	mg/Kg
SURROGATE RESULTS				
1,4-Difluorobenzene			87.4	% Rec
1,4-Dichlorobutane			96.8	% Rec



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 36.5

Date Taken: 02/06/1992 Time Taken: 11:30 LAB Job No: (-113456)

·	,	Reporting		
Parameter	Method	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
as Gasoline	5030	1	71	mg/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		125	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	0.056	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	0.21	mg/Kg
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			02-12-92	
DATE ANALYZED			02-14-92	
as Diesel	3550	1	16 ***	mg/Kg

^{***} NOTE: Petroleum hydrocarbon as diesel result is due to a petroleum hydrocarbon that lighter than diesel.



Client Acct: 1809 Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 11

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 36.5

Date Taken: 02/06/1992 Time Taken: 11:30 LAB Job No: (-113456)

METHOD 8010 (GC,Solid) DATE ANALYZED	,	,	Reportin	g	
DATE ANALYZED DILUTION FACTOR* Bromodichloromethane	Parameter	<u>M</u> ethod	Limit	Results_	Units
DATE ANALYZED DILUTION FACTOR* Bromodichloromethane					
DILUTION FACTOR* Bromodichloromethane					
Bromodichloromethane					
Bromoform	-			-	
Bromomethane	· · · · · · · · · · · · · · · · · · ·				
Carbon tetrachloride	– – – – – – – – – – – – – – – – – –				
Chlorobenzene 8010 0.002 ND mg/Kg Chloroethane 8010 0.002 ND mg/Kg 2-Chloroethylvinyl ether 8010 0.005 ND mg/Kg Chloroform 8010 0.002 ND mg/Kg Chloromethane 8010 0.002 ND mg/Kg Chloromethane 8010 0.002 ND mg/Kg Dibromochloromethane 8010 0.002 ND mg/Kg 1,2-Dichlorobenzene 8010 0.002 ND mg/Kg 1,3-Dichlorobenzene 8010 0.002 ND mg/Kg Dichlorodifluoromethane 8010 0.002 ND mg/Kg Dichlorodifluoromethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,2-Dichloroethane 8010 0.002 ND mg/Kg 1,2-Dichloroethene 8010 0.002 ND mg/Kg trans-1,2-Dichloroethene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg					
Chloroethane	· · · · · • • · · · · · · · · · · ·				
2-Chloroethylvinyl ether 8010 0.005 ND mg/Kg Chloroform 8010 0.002 ND mg/Kg Dibromochloromethane 8010 0.002 ND mg/Kg Dibromochloromethane 8010 0.002 ND mg/Kg 1,2-Dichlorobenzene 8010 0.002 ND mg/Kg 1,3-Dichlorobenzene 8010 0.002 ND mg/Kg 1,4-Dichlorobenzene 8010 0.002 ND mg/Kg 1,4-Dichlorobenzene 8010 0.002 ND mg/Kg Dichlorodifluoromethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg 1,2-Dichloropropene 8010 0.002 ND mg/Kg 1,1,3-Dichloropropene 8010 0.002 ND mg/Kg 1,1,2-Tetrachloroethane 8010 0.050 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg				ND	
Chloroform 8010 0.002 ND mg/Kg Chloromethane 8010 0.002 ND mg/Kg Dibromochloromethane 8010 0.002 ND mg/Kg 1,2-Dichlorobenzene 8010 0.002 ND mg/Kg 1,3-Dichlorobenzene 8010 0.002 ND mg/Kg 1,4-Dichlorobenzene 8010 0.002 ND mg/Kg 1,4-Dichloromethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethene 8010 0.002 ND mg/Kg 1,1-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg 1,2-Dichloropropene 8010 0.002 ND mg/Kg 1,2-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethene 8010 0.002 ND mg/Kg Tetrachloroethene 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Trichloroide 8010 0.002 ND mg/Kg					
Chloromethane 8010 0.002 ND mg/kg Dibromochloromethane 8010 0.002 ND mg/kg 1,2-Dichlorobenzene 8010 0.002 ND mg/kg 1,3-Dichlorobenzene 8010 0.002 ND mg/kg 1,4-Dichlorobenzene 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethene 8010 0.002 ND mg/kg 1,1-Dichloroethene 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropene 8010 0.002 ND mg/kg trans-1,3-Dichloropropene 8010 0.002 ND mg/kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/kg	- -			ND	
Dibromochloromethane 8010 0.002 ND mg/kg 1,2-Dichlorobenzene 8010 0.002 ND mg/kg 1,3-Dichlorobenzene 8010 0.002 ND mg/kg 1,4-Dichlorobenzene 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,2-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,2-Dichloroethene 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropane 8010 0.002 ND mg/kg trans-1,2-Tichloropropane 8010 0.002 ND mg/kg 1,1,2-Tetrachloroethane 8010 0.002 ND mg/kg 1,1,2-Tetrachloroethane 8010 0.002 ND mg/kg	Chloroform			ND	mg/Kg
1,2-Dichlorobenzene 8010 0.002 ND mg/kg 1,3-Dichlorobenzene 8010 0.002 ND mg/kg 1,4-Dichlorobenzene 8010 0.002 ND mg/kg Dichlorodifluoromethane 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,2-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethene 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropene 8010 0.002 ND mg/kg trans-1,3-Dichloropropene 8010 0.002 ND mg/kg 1,1,2-Tetrachloropropene 8010 0.002 ND mg/kg 1,1,2-Tetrachloroethane 8010 0.002 ND mg/kg 1,1,1-Trichloroethane 8010 0.002 ND mg/kg Trichlorofluoromethane 8010 0.002 ND mg/kg	Chloromethane		0.002	ND	mg/Kg
1,3-Dichlorobenzene 8010 0.002 ND mg/kg 1,4-Dichlorobenzene 8010 0.002 ND mg/kg Dichlorodifluoromethane 8010 0.002 ND mg/kg 1,1-Dichloroethane 8010 0.002 ND mg/kg 1,2-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethene 8010 0.002 ND mg/kg trans-1,2-Dichloroethene 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropene 8010 0.002 ND mg/kg trans-1,3-Dichloropropene 8010 0.002 ND mg/kg Methylene chloride 8010 0.002 ND mg/kg Methylene chloride 8010 0.002 ND mg/kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/kg 1,1,1-Trichloroethane 8010 0.002 ND mg/kg 1,1,2-Trichloroethane 8010 0.002 ND mg/kg	Dibromochloromethane	8010	0.002	ND	mg/Kg
1,4-Dichlorobenzene 8010 0.002 ND mg/Kg Dichlorodifluoromethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,2-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg trans-1,2-Dichloroethane 8010 0.002 ND mg/Kg cis-1,3-Dichloropropane 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg	1,2-Dichlorobenzene	8010	0.002	ND	mg/Kg
Dichlorodifluoromethane 8010 0.002 ND mg/Kg 1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,2-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethene 8010 0.002 ND mg/Kg trans-1,2-Dichloroethene 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg	1,3-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,1-Dichloroethane 8010 0.002 ND mg/Kg 1,2-Dichloroethane 8010 0.002 ND mg/Kg 1,1-Dichloroethene 8010 0.002 ND mg/Kg trans-1,2-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.002 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethene 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-	1,4-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,2-Dichloroethane 8010 0.002 ND mg/kg 1,1-Dichloroethene 8010 0.002 ND mg/kg trans-1,2-Dichloroethene 8010 0.002 ND mg/kg 1,2-Dichloropropane 8010 0.002 ND mg/kg cis-1,3-Dichloropropene 8010 0.002 ND mg/kg trans-1,3-Dichloropropene 8010 0.002 ND mg/kg Methylene chloride 8010 0.050 ND mg/kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/kg 1,1,1-Trichloroethane 8010 0.002 ND mg/kg 1,1,2-Trichloroethane 8010 0.002 ND mg/kg Trichlorofluoromethane 8010 0.002 ND mg/kg Vinyl chloride 8010 0.002 ND mg/kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 Rec	Dichlorodifluoromethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethene 8010 0.002 ND mg/Kg trans-1,2-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,1-Dichloroethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethene 8010 0.002 ND mg/Kg trans-1,2-Dichloroethene 8010 0.002 ND mg/Kg 1,2-Dichloropropane 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,2-Dichloroethane	8010	0.002	ND	mg/Kg
1,2-Dichloropropane 8010 0.002 ND mg/Kg cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,1-Dichloroethene	8010	0.002	ND	
cis-1,3-Dichloropropene 8010 0.002 ND mg/Kg trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2-Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	trans-1,2-Dichloroethene	8010	0.002	ND	mg/Kg
trans-1,3-Dichloropropene 8010 0.002 ND mg/Kg Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,2-Dichloropropane	8010	0.002	ND	mg/Kg
Methylene chloride 8010 0.050 ND mg/Kg 1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS * Rec 1,4-Difluorobenzene 98.5 * Rec	cis-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethene 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	trans-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
1,1,2,2-Tetrachloroethane 8010 0.002 ND mg/Kg Tetrachloroethane 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethane 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	Methylene chloride	8010	0.050	ND	mg/Kg
Tetrachloroethene 8010 0.002 ND mg/Kg 1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,1,2,2-Tetrachloroethane	8010	0.002	ND	
1,1,1-Trichloroethane 8010 0.002 ND mg/Kg 1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec		8010	0.002	ND	
1,1,2-Trichloroethane 8010 0.002 ND mg/Kg Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec	1,1,1-Trichloroethane	8010	0.002	ND	
Trichloroethene 8010 0.002 ND mg/Kg Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec		8010	0.002	ND	
Trichlorofluoromethane 8010 0.002 ND mg/Kg Vinyl chloride 8010 0.002 ND mg/Kg SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec				ND	
Vinyl chloride80100.002NDmg/KgSURROGATE RESULTS1,4-Difluorobenzene98.5% Rec	Trichlorofluoromethane	8010		ND	
SURROGATE RESULTS 1,4-Difluorobenzene 98.5 % Rec				ND	
1,4-Difluorobenzene 98.5 % Rec	-				· 5, 5
·				98.5	% Rec
Tit-Diculoropicane following	1,4-Dichlorobutane			107	% Rec



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 44.5

Date Taken: 02/06/1992 Time Taken: 12:20 LAB Job No: (-113457)

200 000 000 1 12010.	,			
		Reporting	3	
Parameter	Method	<u>Limit</u>	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			1,000	
as Gasoline	5030	1	8,800	mg/Kg
SURROGATE RESULTS			<u>.</u>	J. J
Bromofluorobenzene	5030		151 **	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			1,000	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	72	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	170	mg/Kg
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			100	
DATE EXTRACTED			02-12-92	
DATE ANALYZED			02-16-92	
as Diesel	3550	1	4,500 ***	mg/Kg

^{**} Matrix interference.

^{***} NOTE: Petroleum hydrocarbon as diesel result is due to a petroleum hydrocarbon that is lighter than diesel.



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

Page: 13

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-B 44.5

Date Taken: 02/06/1992 Time Taken: 12:20 LAB Job No: (-113457)

		Reportin	g	
Parameter	Method	Limit	Results	Units
METHOD 8010 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	0.002	ND	mg/Kg
Bromoform	8010	0.002	ND	mg/Kg
Bromomethane	8010	0.002	ND	mg/Kg
Carbon tetrachloride	8010	0.002	ND	mg/Kg
Chlorobenzene	8010	0.002	ND	mg/Kg
Chloroethane	8010	0.002	ND	mg/Kg
2-Chloroethylvinyl ether	8010	0.005	ND	mg/Kg
Chloroform	8010	0.002	ND	mg/Kg
Chloromethane	8010	0.002	ND	mg/Kg
Dibromochloromethane	8010	0.002	ND	mg/Kg
1,2-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,3-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,4-Dichlorobenzene	8010	0.002	ND	mg/Kg
Dichlorodifluoromethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethane	8010	0.002	ND	mg/Kg
1,2-Dichloroethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethene	8010	0.002	ND	mg/Kg
trans-1,2-Dichloroethene	8010	0.002	ND	mg/Kg
1,2-Dichloropropane	8010	0.002	ND	mg/Kg
cis-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
trans-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
Methylene chloride	8010	0.050	ND	mg/Kg
1,1,2,2-Tetrachloroethane	8010	0.002	ND	mg/Kg
Tetrachloroethene	8010	0.002	ND	mg/Kg
1,1,1-Trichloroethane	8010	0.002	ND	mg/Kg
1,1,2-Trichloroethane	8010	0.002	ND	mg/Kg
Trichloroethene	8010	0.002	ND	mg/Kg
Trichlorofluoromethane	8010	0.002	ND	mg/Kg
Vinyl chloride	8010	0.002	ND	mg/Kg
SURROGATE RESULTS				_
1,4-Difluorobenzene			NA	% Rec
1,4-Dichlorobutane			65.1	% Rec



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 36.5

Date Taken: 02/06/1992 Time Taken: 09:40 LAB Job No: (-113458)

	,	Reporting	1	
Parameter	_Method	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		73	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-13-92	
DILUTION FACTOR*			1	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	ND	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	ИD	mg/Kg
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			02-12-92	
DATE ANALYZED			02-14-92	
as Diesel	3550	1	ND	mg/Kg



Client Acct: 1809 Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 36.5

Date Taken: 02/06/1992 Time Taken: 09:40 LAB Job No: (-113458)

	Poportina		
Method	-	Pagulta	Units
Mechod	DIMILE	results	DIIILB
		02-12-92	
		1	
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.005	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010		ND	mg/Kg
8010		ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.050	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND.	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
8010	0.002	ND	mg/Kg
			
			% Rec
		82.2	% Rec
	8010 8010 8010 8010 8010 8010 8010 8010	8010 0.002 8010 0.002	Method Limit Results



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 44.5

Date Taken: 02/06/1992 Time Taken: 10:15 LAB Job No: (-113459)

•	·	Reportin	g	
Parameter	Method	Limit	Results	Units
THE (Conference colid)				
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
as Gasoline	5030	1	45	mg/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		115	% Rec
METHOD 8020 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			10	
Benzene	8020	0.0025	ND	mg/Kg
Ethylbenzene	8020	0.0025	ND	mg/Kg
Toluene	8020	0.0025	ND	mg/Kg
Xylenes (Total)	8020	0.0025	0.25	mg/Kg
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			02-12-92	
DATE ANALYZED			02-14-92	
as Diesel	3550	1	29 ***	mg/Kg

^{***} NOTE: Petroleum hydrocarbon as diesel result is due to a petroleum hydrocarbon that is lighter than diesel.



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992 Page: 17

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: BH-C 44.5

Date Taken: 02/06/1992 Time Taken: 10:15 LAB Job No: (-113459)

LAB JOD NO: (-113459	' '	Reportin	va.	
Parameter	Method	Limit	Results	Units
		DEME		VII.100
METHOD 8010 (GC, Solid)				
DATE ANALYZED			02-12-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	0.002	ND	mg/Kg
Bromoform	8010	0.002	ND	mg/Kg
Bromomethane	8010	0.002	ND	mg/Kg
Carbon tetrachloride	8010	0.002	ND	mg/Kg
Chlorobenzene	8010	0.002	ND	mg/Kg
Chloroethane	8010	0.002	ND	mg/Kg
2-Chloroethylvinyl ether	8010	0.005	ND	mg/Kg
Chloroform	8010	0.002	ND	mg/Kg
Chloromethane	8010	0.002	ND	mg/Kg
Dibromochloromethane	8010	0.002	ND	mg/Kg
1,2-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,3-Dichlorobenzene	8010	0.002	ND	mg/Kg
1,4-Dichlorobenzene	8010	0.002	ND	mg/Kg
Dichlorodifluoromethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethane	8010	0.002	ND	mg/Kg
1,2-Dichloroethane	8010	0.002	ND	mg/Kg
1,1-Dichloroethene	8010	0.002	ND	mg/Kg
trans-1,2-Dichloroethene	8010	0.002	ND	mg/Kg
1,2-Dichloropropane	8010	0.002	ND	mg/Kg
cis-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
trans-1,3-Dichloropropene	8010	0.002	ND	mg/Kg
Methylene chloride	8010	0.050	ND	mg/Kg
1,1,2,2-Tetrachloroethane	8010	0.002	ND	mg/Kg
Tetrachloroethene	8010	0.002	ND	mg/Kg
1,1,1-Trichloroethane	8010	0.002	ND	mg/Kg
1,1,2-Trichloroethane	8010	0.002	ND	mg/Kg
Trichloroethene	8010	0.002	ND	mg/Kg
Trichlorofluoromethane	8010	0.002	ND	mg/Kg
Vinyl chloride	8010	0.002	ND.	mg/Kg
SURROGATE RESULTS				<u>-</u> , <u>-</u>
1,4-Difluorobenzene			69.8	% Rec
1,4-Dichlorobutane			69.0	% Rec



Client Name: Weiss Associates

NET Log No: 92.0688

Date: 02/19/1992

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Ref: Shell, 1285 Bancroft Ave., San Leandro

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	1	mg/Kg	107	ND	N/A	N/A	9.7
Gasoline Benzene Toluene	1 0.0025 0.0025	mg/Kg mg/Kg mg/Kg	98 92 93	ND ND	88 93 92	93 97 95	4.4 3.4 4.0
Gasoline Benzene Toluene	1 0.0025 0.0025	mg/Kg mg/Kg mg/Kg	104 94 94	ND ND	95 98 86	92 90 90	3.2 8.7 3.9
Gasoline Benzene Toluene	1 0.0025 0.0025	mg/Kg mg/Kg mg/Kg	100 94 95	ND ND ND	96 94 95	90 91 91	6.7 3.5 4.3

QUALITY CONTROL DATA

Parameter	Reporting Limits		Cal Verf Stand % Recovery	Blank Data		Duplicate Spike % Recovery	RPD
Chlorobenzene 1,1-pichloroethene Trichloroethene	0.002 0.002 0.002	mg/Kg mg/Kg mg/Kg		ND ND ND	98 117 111	98 112 112	<1 5.0 <1

COMMENT: Blank Results were ND on other analytes tested.

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ATTACHMENT D ANALYTIC REPORT FOR GROUND WATER



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Tom Fojut Weiss Associates 5500 Shellmound St. Emeryville, CA 94608 Date: 03/05/1992

NET Client Acct. No: 1809 NET Pacific Log No: 92.0989

Received: 02/27/1992

Client Reference Information

Shell, 1285 Bancroft Ave., San Leandro

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

Enclosure(s)



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Client Acct: 1809 Client Name: Weiss Associates

NET Log No: 92.0989

Date: 03/05/1992

Page: 2

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: 022-02

02/24/1992 Date Taken:

Time Taken:

LAB Job No: (-114756)

		Reporting	ġ	
Parameter	Method	Limit	Results	Units
TPH (Gas/BTXE, Liquid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-27-92	
DILUTION FACTOR*			1	
as Gasoline	5030	0.05	1.0	mg/L
METHOD 8020 (GC, Liquid)				
DATE ANALYZED			02-27-92	
DILUTION FACTOR*			1	
Benzene	8020	0.0005	0.0043	mg/L
Ethylbenzene	8020	0.0005	0.012	mg/L
Toluene	8020	0.0005	0.0011	mg/L
Xylenes (Total)	8020	0.0005	0.023	mg/L
SURROGATE RESULTS				
Bromofluorobenzene	5030		111	% Rec.
METHOD 3510 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			02-28-92	
DATE ANALYZED			03-01-92	
as Diesel	3510	0.05	0.26 **	mg/L

^{**} NOTE: Petroleum hydrocarbon as diesel result is due to a petroleum hydrocarbon that is lighter than diesel.



Client Name: Weiss Associates

NET Log No: 92.0989

Date: 03/05/1992 Page: 3

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: 022-02

Date Taken: 02/24/1992

Time Taken:

LAB Job No: (-114756)

LAB JOD NO: (-114756	,	Reporting	4	
Parameter	Method	Limit	Results	Units
WRINION SOLO LOG Timila				
METHOD 8010 (GC, Liquid) DATE ANALYZED			02-28-92	
DILUTION FACTOR*	0010	0.0004	1	/T
Bromodichloromethane	8010	0.0004	ND	mg/L
Bromoform	8010	0.0004	ND	mg/L
Bromomethane	8010	0.0004	ND	mg/L
Carbon tetrachloride	8010	0.0004	ND	mg/L
Chlorobenzene	8010	0.0004	ND	mg/L
Chloroethane	8010	0.0004	ND	mg/L
2-Chloroethylvinyl ether	8010	0.001	ND	mg/L
Chloroform	8010	0.0004	0.011	mg/L
Chloromethane	8010	0.0004	ND	mg/L
Dibromochloromethane	8010	0.0004	ND	mg/L
1,2-Dichlorobenzene	8010	0.0004	ND	mg/L
1,3-Dichlorobenzene	8010	0.0004	ND	mg/L
1,4-Dichlorobenzene	8010	0.0004	ND	mg/L
Dichlorodifluoromethane	8010	0.0004	ND	mg/L
1,1-Dichloroethane	8010	0.0004	ND	mg/L
1,2-Dichloroethane	8010	0.0004	ND	mg/L
1,1-Dichloroethene	8010	0.0004	ND	mg/L
trans-1,2-Dichloroethene	8010	0.0004	ND	mg/L
1,2-Dichloropropane	8010	0.0004	ND	mg/L
cis-1,3-Dichloropropene	8010	0.0004	ND	mg/L
trans-1,3-Dichloropropene	8010	0.0004	ND	mg/L
Methylene chloride	8010	0.010	ND	mg/L
1,1,2,2-Tetrachloroethane	8010	0.0004	ND	mg/L
Tetrachloroethene	8010	0.0004	0.013	mg/L
1,1,1-Trichloroethane	8010	0.0004	ND	mg/L
1,1,2-Trichloroethane	8010	0.001	ND	mg/L
Trichloroethene	8010	0.0004	ND	mg/L
Trichlorofluoromethane	8010	0.0004	ND	mg/L
Vinyl chloride	8010	0.0004	ND	mg/L
SURROGATE RESULTS	2010	0.0004		
1,4-Difluorobenzene			104	% Rec.
1,4-Dirluorobenzene			97.7	% Rec.
1,4-bicutotondrade			71.1	o nec.



Client Acct: 1809 Client Name: Weiss Associates

NET Log No: 92.0989

Date: 03/05/1992

Page: 4

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: 022-03

Date Taken: 02/24/1992

Time Taken:

LAB Job No: (-114757)

LAB JOD NO: (-114/5	· /)			
		Reporting	-	
<u>Parameter</u>	Method	Limit	Results	<u>Units</u>
TPH (Gas/BTXE, Liquid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			02-27-92	
DILUTION FACTOR*			1	
as Gasoline	5030	0.05	ND	mg/L
METHOD 8020 (GC, Liquid)				2.
DATE ANALYZED			02-27-92	
DILUTION FACTOR*			1	
Benzene	8020	0.0005	ND	mg/L
Ethylbenzene	8020	0.0005	ND	mg/L
Toluene	8020	0.0005	ND	mg/L
Xylenes (Total)	8020	0.0005	ND	mg/L
SURROGATE RESULTS				
Bromofluorobenzene	5030		88	% Rec.
METHOD 3510 (GC,FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			02-28-92	
DATE ANALYZED			03-01-92	
as Diesel	3510	0.05	ND	mg/L



Client Name: Weiss Associates

NET Log No: 92.0989

Date: 03/05/1992

Page: 5

Ref: Shell, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: 022-03

Date Taken: 02/24/1992

Time Taken:

LAB Job No: (-114757)

	i	Reportin		
<u>Parameter</u>	Method	Limit	Results	Units
METHOD 8010 (GC, Liquid)				
DATE ANALYZED			02-28-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	0.0004	ND	mg/L
Bromoform	8010	0.0004	ND	mg/L
Bromomethane	8010	0.0004	ND	mg/L
Carbon tetrachloride	8010	0.0004	ND	mg/L
Chlorobenzene	8010	0.0004	ND	mg/L
Chloroethane	8010	0.0004	ND	mg/L
2-Chloroethylvinyl ether	8010	0.001	ND	mg/L
Chloroform	8010	0.0004	0.0034	mg/L
Chloromethane	8010	0.0004	ND	mg/L
Dibromochloromethane	8010	0.0004	ND	mg/L
1,2-Dichlorobenzene	8010	0.0004	ND	mg/L
1,3-Dichlorobenzene	8010	0.0004	ND	mg/L
1,4-Dichlorobenzene	8010	0.0004	ND	mg/L
Dichlorodifluoromethane	8010	0.0004	ND	mg/L
1,1-Dichloroethane	8010	0.0004	ND	mg/L
1,2-Dichloroethane	8010	0.0004	ND	mg/L
1,1-Dichloroethene	8010	0.0004	ND	mg/L
trans-1,2-Dichloroethene	8010	0.0004	ND	mg/L
1,2-Dichloropropane	8010	0.0004	ND	mg/L
cis-1,3-Dichloropropene	8010	0.0004	ND	mg/L
trans-1,3-Dichloropropene	8010	0.0004	ND	mg/L
Methylene chloride	8010	0.010	ND	mg/L
1,1,2,2-Tetrachloroethane	8010	0.0004	ND	mg/L
Tetrachloroethene	8010	0.0004	0.011	mg/L
1,1,1-Trichloroethane	8010	0.0004	ND	mg/L
1,1,2-Trichloroethane	8010	0.001	ND	mg/L
Trichloroethene	8010	0.0004	ND	mg/L
Trichlorofluoromethane	8010	0.0004	ND	mg/L
Vinyl chloride	8010	0.0004	ND	mg/L
SURROGATE RESULTS				
1,4-Difluorobenzene			111	% Rec.
1,4-Dichlorobutane			96.1	% Rec.



Client Name: Weiss Associates

NET Log No: 92.0989

Date: 03/05/1992

Page: 6

Ref: Shell, 1285 Bancroft Ave., San Leandro

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	115	ND	81	87	6.2
Gasoline Benzene Toluene	0.05 0.0005 0.0005	mg/L mg/L mg/L	99 96 97	ND ND ND	94 96 97	91 91 94	3.2 6.2 3.4

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits		Cal Verf Stand % Recovery		Spike % Recovery	Duplicate Spike % Recovery	RPD
Chlorobenzene	0.0004	mg/L	76	ND	100	95	5.7
1,1-Dichloroethene	0.0004	mg/L	107	ND	134	142	5.4
Trichloroethene	0.0004	mg/L	83	ND	99	96	3.6

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte
		not detected at the value following. This datum supercedes
		the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

<u>SM</u>: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

SHELL OIL COMPANY RETAIL ENVIRONMENTAL ENGINEERING - V								VEST CHAIN OF CUSTODY RECORD Date: VEST Serial No.: 4143 Page									-			
Site Address: 1285 SAN	BANCRO1 LEANDR	=T	\ \			[.	A	\na	alysis Required							LA	В:	NET		
WIC#: 204-68	52-070	3										T			CHECK ONE (1) BOX ONLY CT/D				T TUR	N AROUND TIME
Shell Engineer: KURT MILLER Phone No.510-685-3953 Fax #:510-685-3943 Consultant Name & Address: WEISS ASSOCIATES					(31	od. Diesel)		(EPA 8240)				no mu	STODY:	Water Sample - Sys O&M Other			5441 5442 al 5443	48 h	ays 🛭 (Normal)	
Consultant Contact: Phone No. 510-547-5420 TOM FOJUT Fax #: 510-547-5043				(209)					'A Boio		1	SEALI	_				NOT soon	E: Notify Lab as as possible of B hrs. TAT.		
WA JOB #81-42 Sampled By: BRIAN Printed Name: BRIAN	BuscH	·············				(EPA 8015 N	(EPA 8015 N	K (EPA 8020/602	Volatile Organics	Test for Disposal	HVOCS PEPA	and fortage to	2	ED 2/26/92	Container Size	Preparation Used	osite Y/N	MATERIAL DESCRIPTION	N	SAMPLE CONDITION/
Sample ID	Date	Soil	Water	Air	No. of conts,	TPH	TPH	BTEX	Volat	Test	HV			6/92	Conta	Prepar	Composite	1		COMMENTS
022-02	2/24/92		X		3	Х		X					- A		Hom	HCI	No	6W/6AS	5	
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022-22		<u></u>	×		3						_				10m		V	4	į	10LD-pende
Relinguished By (signature) Buan (Sus		131	ed name: 21AV	BU.	Sc <i>H</i>	Date Time	<i></i> /	4/{2 1/35			I (sigi	nature L.L.	' k-	Hel		2	Ra	d name: by U.B.		Maly Feel ves
Retinquished By (signature): Printed name:				Time	2/2	05	2	160	1-	nature	lu	race	/		Printe	TAVAHI		Date: 2/36/9. Time: /3/0		
Relinquished By (signature)	alla	17	ed name:			Tîme	:19	10	L		1/2	in	ny			l		d name: Kelly Temple		Date: 2/27/92 Time: 0000
D 11 D 1015101	THE LA	BORA	TORY	MUST	PROVIDE	A C	OPY	OF	THI	S CH	IAIN	-OF-	CUS	TOD	Y W	ITH II	4001	CE AND RESULT.	<u>S</u>	j

STORED OVERNIGHT IN A LOCKED, SEWRE PLACE