Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

Scott Seery
Alameda County Department
of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577

Re: Subsurface Investigation
Former Shell Service Station
1784 150th Avenue
San Leandro, California
WIC # 204-6852-1404
WA Job # 81-0422-10

Dear Mr. Seery:

This letter presents the results of Weiss Associates' (WA) subsurface investigation conducted around the Shell service station referenced above (Figure 1). As outlined in WA's December 6, 1993 workplan[1], the investigation objective is to characterize the extent of hydrocarbons in ground water both up- and downgradient of the Shell site. To achieve this objective, WA drilled six small diameter soil borings in the site vicinity, and collected soil and ground water samples for analysis. WA's scope of work, a summary of previous investigations and the results of this investigation are presented below.

SCOPE OF WORK

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

1) Obtain the necessary drilling and encroachment permits, and access agreements to drill at the site and in the public right-of-ways adjacent to the site;

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[1] WA, December 6, 1993, Consultant's letter-workplan regarding the proposed drilling of soil borings and water sampling via hydropunch at the Shell service station at 1784 150th Avenue, San Leandro, California, 4 pages and one attachment.

2) Prepare a site safety plan and locate underground and overhead utility lines;

3) Collect soil and hydropunch ground water samples from up to two shallow onsite borings, and up to six shallow offsite borings to determine whether hydrocarbons are present in soil and ground water. Additional soil/hydropunch borings would be installed downgradient of borings exhibiting field indications of hydrocarbons. Soil samples were also collected for hydrogeologic description;

4) Analyze selected soil and water samples for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and xylene (BTEX). In addition, analyze one selected soil and one ground water sample each, for volatile organic compounds (VOCs);

5) Grout all borings with neat Portland cement using a tremie pipe and cap the borings with asphalt to match existing surface materials;

6) Arrange for the disposal of drill cuttings and steam cleaning rinseate; and

7) Report the results.

SITE BACKGROUND

Site Setting

Location: The site is an operating Shell service station located at the intersection of 150th Avenue and Freedom Avenue in San Leandro, California. The base of the San Leandro Hills is approximately 0.25 mile to the northeast. The site is about 50 ft above mean sea level and the local topography slopes westward toward San Francisco Bay, about 6 miles to the west.

Surroundings: Mixed commercial and residential.

Site Geology: Sediments beneath the site are Quaternary alluvial deposits derived from sedimentary and igneous rocks of the Diablo Range. The site is about 0.25 miles west of the Hayward Fault Zone.

Previous Investigations

1986 Waste Oil Tank Removal: In November 1986, Petroleum Engineering of Santa Rosa, California, removed a 550-gallon waste oil tank from the site. Immediately following the tank removal, Blaine Tech Services (BTS) of San Jose, California collected soil samples beneath the former tank at 8 ft and 11 ft depth. The soil samples contained petroleum oil and grease (POG) at 196 and 167 parts per million (ppm), respectively. The tank pit was excavated to a total depth of 16 ft but soil samples were not collected. Ground water was not encountered in the tank excavation[2]. A new 550-gallon fiberglass waste oil tank was installed in the same location.

1990 Well Installation: In March 1990, WA installed ground water monitoring well MW-1 adjacent to the waste oil tank.[3] In a soil sample collected from 29 ft below ground surface (bgs), TPH-G and benzene were detected at 35 and 0.23 ppm, respectively. TPH-G and benzene were also detected in water samples at 510 and 1.5 parts per billion (ppb), respectively. Up to 12 ppb 1,2-DCA has been detected in ground water samples from MW-1.

1992 Well Installation: In February 1992, WA installed monitoring wells MW-2 and MW-3. Soil samples collected near the water table from the borings contained up to 79 ppm TPH-G. Although well MW-3 is located over 100 ft upgradient of the tanks, up to 68 ppm TPH-G were detected in a soil sample from the MW-3 boring. TPH-G and benzene were detected in ground water samples from MW-2 at 17,000 and 6,200 ppb, respectively. Ground water samples from MW-3 contained TPH-G and benzene at 4,500 and 97 ppb, respectively.

Quarterly Ground Water Monitoring: Quarterly ground water sampling has been conducted in monitoring well MW-1 since March 1990 and MW-2 and MW-3 since February 1992. Ground water samples from MW-2 have historically contained the highest TPH-G and benzene; up to 160,000 and 36,000 ppb, respectively. The ground water flow direction has a historical range from north-northwestward to eastward with a relatively flat gradient at about 0.003 ft/ft. On June 6, 1994 the ground water flow direction beneath the site was northward as shown on Figure 2.

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2 BTS, November 21, 1986, Sampling Report 86315-M2, Shell Service Station, 1784 150th Avenue, San Leandro, California, Consultant's letter-report prepared for Shell Oil Company, 3 pages and 2 attachments.

3 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 1784 150th Avenue in San Leandro, California, 10 pages and 2 attachments.

INVESTIGATION RESULTS

Soil and Ground Water Investigation

Drilling Dates: June 6 and 7, 1994.

Drilling Geologist: WA Staff Geologist Jonathan Weingast under the supervision of Certified Engineering Geologist James W. Carmody.

Drilling Method: Mobil Weld drill rig with 6-inch outside diameter hollow stem augers. WA's standard field procedures are presented in Attachment A.

Number of Borings: Six (BH-1 through BH-6; Figure 3).

Boring Depths: 24 to 34 ft.

Sediments Encountered: Sediments in boring BH-1 consist of moderate to high permeability silty sand and gravelly sand from ground surface to about 17.7 ft bgs. From 17.7 ft to 20.2 ft bgs, sediments consist of low to moderate permeability sandy silt. Moderate to high permeability gravelly silty sand is in the 20.2 ft to 27.5 ft bgs interval.

Sediments in borings BH-2 through BH-5 consist of low to moderate permeability clayey silt and sandy silt from the ground surface to 34 ft bgs, the maximum depth explored.

Sediments in boring BH-6 consist of low permeability clayey, sandy silt from the ground surface to about 14 ft bgs. Sediments consist of moderate to high permeability silty sand from 14 ft bgs to 25 ft bgs, the total depth explored. A geologic cross-section is presented in Figure 4 based on the cross-section location shown on Figure 3. Boring logs are included in Attachment B.

Depth to Water: Ground water was encountered initially between 20 to 34 ft bgs. The depth to water during drilling does not reflect the static water level since the boreholes were only open

long enough to allow for the collection of a ground water sample.

Soil Sampling Method: Soil samples were collected at five foot intervals with a clean split-barrel drive sampler lined with stainless steel or brass tubes. Because the borings were drilled to evaluate the extent of hydrocarbon in ground water, only soil samples collected from directly above the water table were selected for chemical analysis.

Water Sampling Method: Ground water samples were collected with a clean stainless steel bailer from inside a temporary PVC casing pushed into the water-bearing zone by a steel outer protective casing. At BH-3, water was not encountered in two attempts using the method above. Therefore, the boring was drilled several additional feet until water was encountered and a grab water sample was then collected with a clean stainless steel bailer. Although elevated hydrocarbon concentrations were detected by chemical analysis in water samples from BH-2 and BH-3, no field indications suggested the presence of hydrocarbons in soil or ground water and no further investigation was conducted in those areas.

Analytical Laboratory: Sequoia Analytical, Inc. of Redwood City, California.

Soil and Water Analytical Methods All soil and ground water samples were analyzed for TPH-G by EPA Method 8015 and BTEX by EPA Method 8020. Additionally soil and ground water samples from BH-3 were analyzed for VOCs by EPA Method 8010. Analytic reports and chain-of-custody forms for all the samples are presented in Attachment C.

Soil Analytic Results: No hydrocarbons were detected in any of the soil samples except for 13 ppb benzene in boring BH-3 at 16 ft bgs. No VOCs were detected in the same BH-3 soil sample. The analytic results for soil are included in Table 1.

Water Analytic Results: No hydrocarbons were detected in hydropunch ground water samples collected from borings BH-1, BH-4, BH-5 or BH-6. However, TPH-G and benzene were detected in hydropunch samples from BH-2 at 5,200 and 8.8 ppb, respectively. TPH-G and benzene were also detected in the hydropunch sample from boring BH-3 at 120,000 and 25,000 ppb, respectively. No VOCs were detected in the ground water sample from boring BH-3. Analytic results

for ground water are included in Table 2 and benzene concentrations in ground water are shown on Figure 5.

Waste Disposal: Crosby and Overton, Inc. of Oakland, California transported the steam clean rinseate and well purge water to the Shell refinery in Martinez, California for recycling. Soil cuttings were stockpiled onsite and transported to BFI Landfill in Livermore, California. Non-hazardous waste manifests are included in Attachment D.

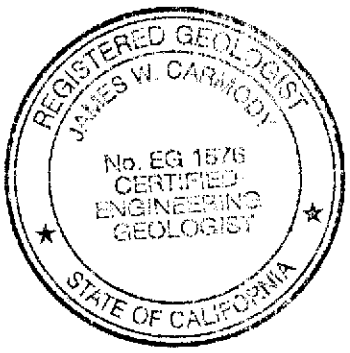
Conclusions

The results of this investigation indicate that:

- Of the six areas explored by the soil borings, hydrocarbons in soil are only detected in the vicinity of BH-3 at about 16 feet depth. No hydrocarbons or VOCs were detected in any of the other borings.
- Hydrocarbons in ground water are only detected in the vicinity of borings BH-2 and BH-3. No hydrocarbons were detected in ground water at the other areas explored.
- No hydrocarbons were detected in ground water in the areas explored by borings BH-4 and BH-5, located northwest of the site. Therefore, hydrocarbons in do not extend to these downgradient areas (based on the June 6, 1994 ground water flow direction beneath the site).
- No hydrocarbons are in ground water in the areas explored by borings BH-1 and BH-6, located southeast and upgradient of the site.

Based on the results of this investigation, hydrocarbons in ground water are in the vicinity of BH-3. Prior to installing an additional monitoring well in this area, WA recommends conducting another hydropunch investigation west of BH-3 along 150th Avenue.

WA trust that this submittal meets your needs. Please call if you have any questions or comments regarding this investigation.



Sincerely,
Weiss Associates

Eric W. Anderson
Project Geologist

James W. Carmody, C.E.G.
Project Hydrogeologist

FMD:ewa

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Attachments: Figures
Tables
A - Standard Field Procedures
B - Boring Logs
C - Analytic Results and Chain-of-custody for Soil and Groundwater
D - Non-hazardous Waste Manifests

cc: [redacted], Shell Oil Company, P.O. Box 4023, Concord, California, 94524
R. Hiett, California Regional Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California, 94612
G. Jensen, Alameda County District Attorney Office

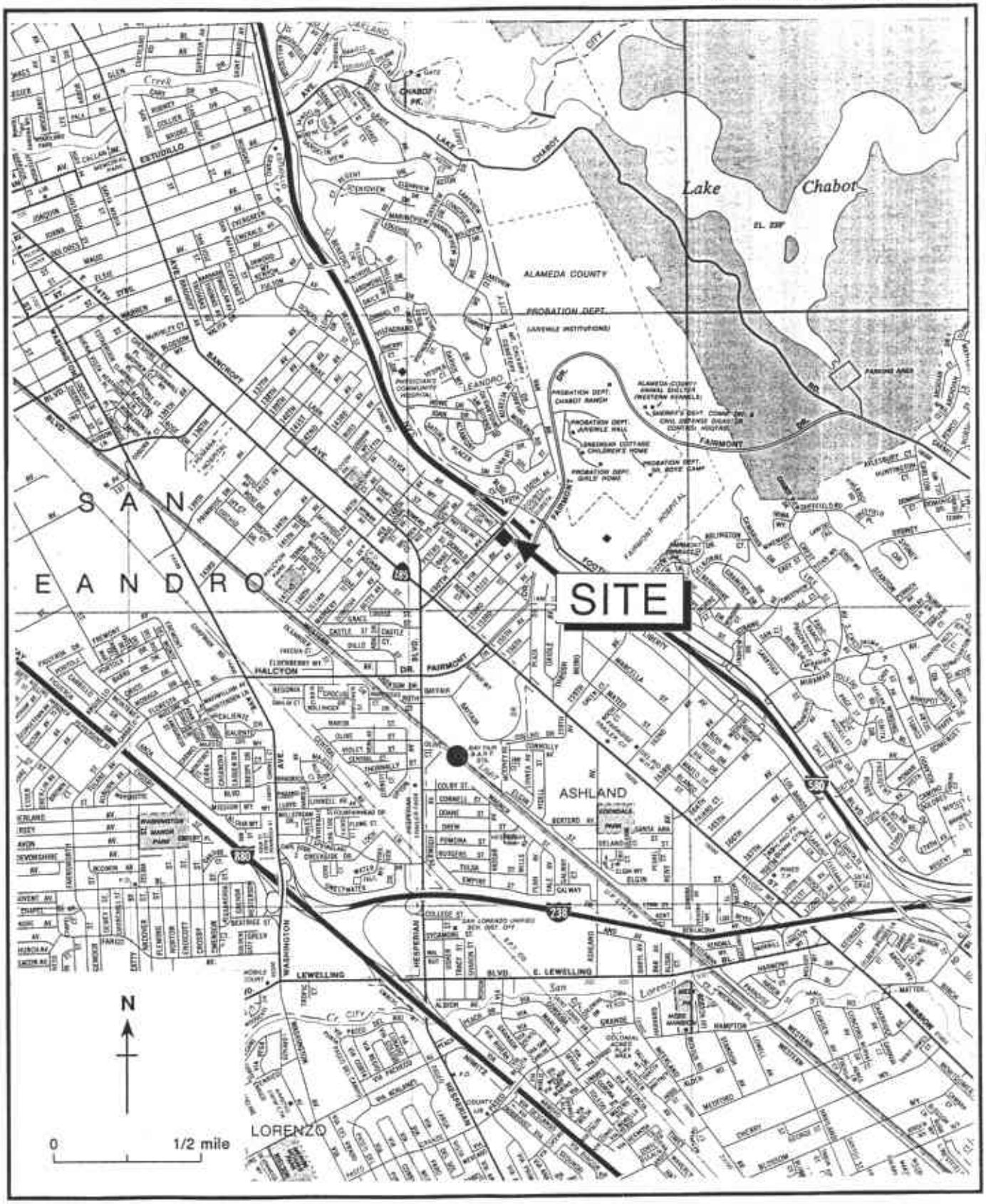


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

1/9/92

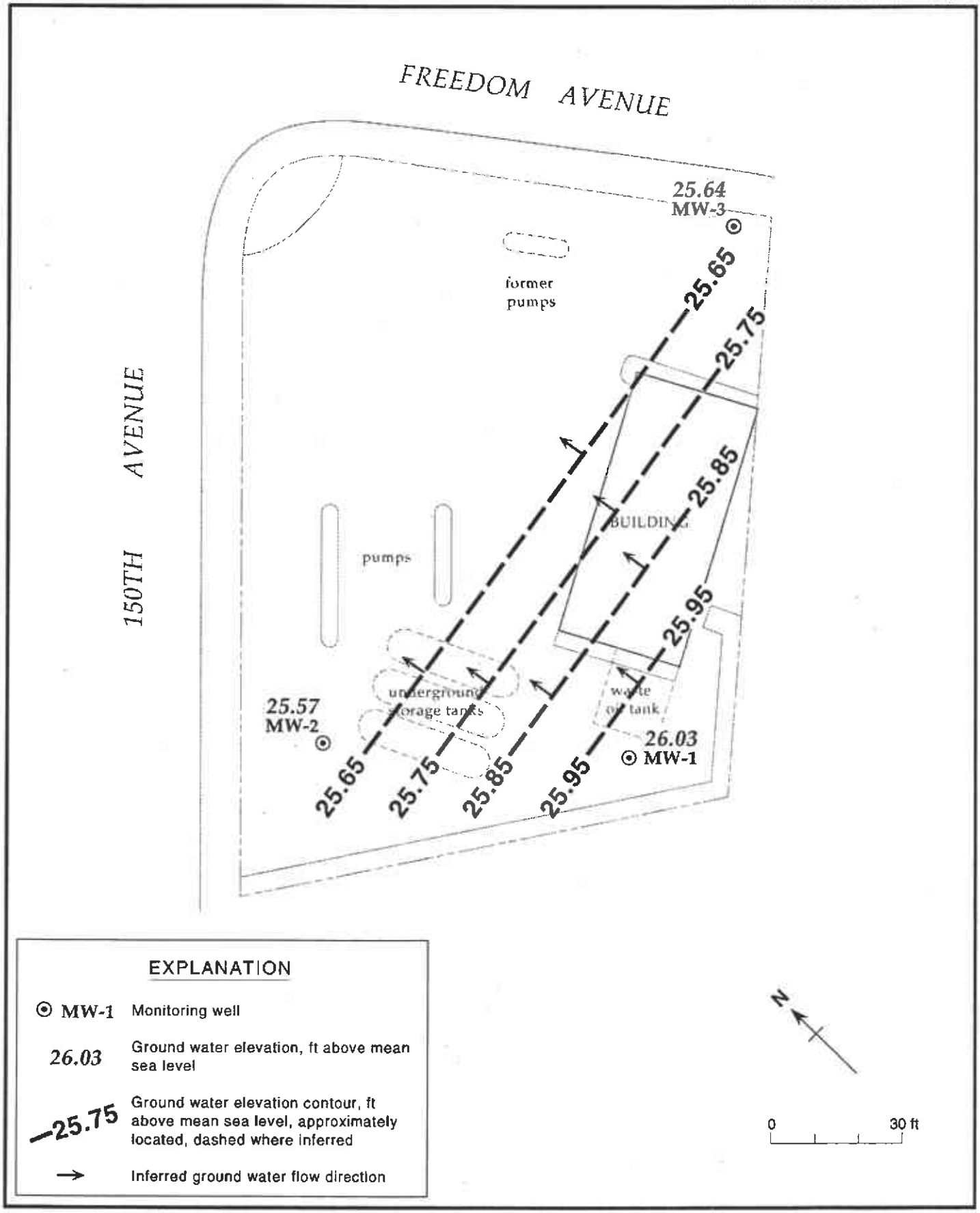


Figure 2. Monitoring Well Locations and Ground Water Elevations Contours in June [redacted] Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

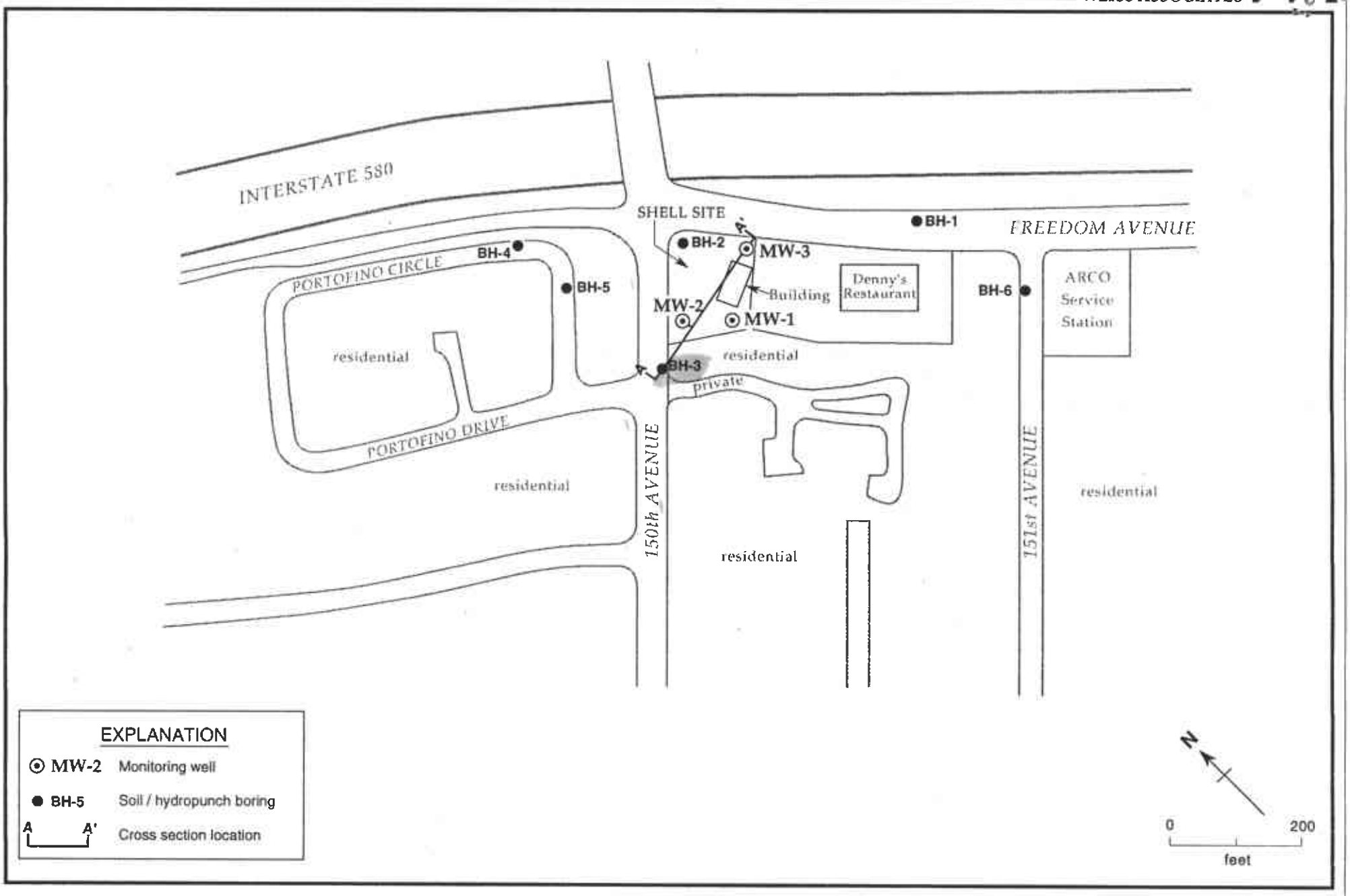


Figure 3. Monitoring Well and Boring Locations and Site Vicinity - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

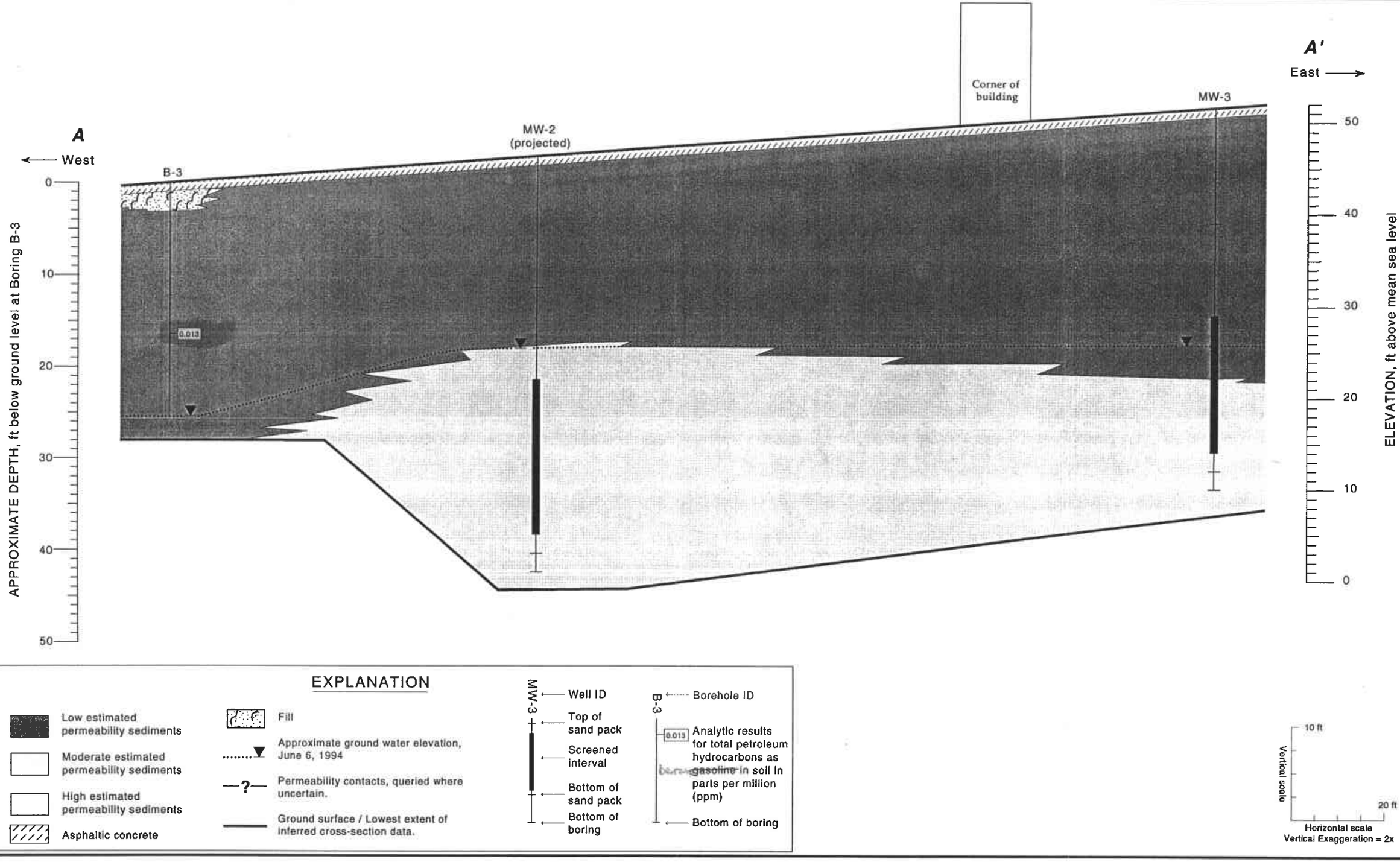


Figure 4. Geologic Cross Section A-A' - Shell Service Station, WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

S422-026.AI

10/13/94

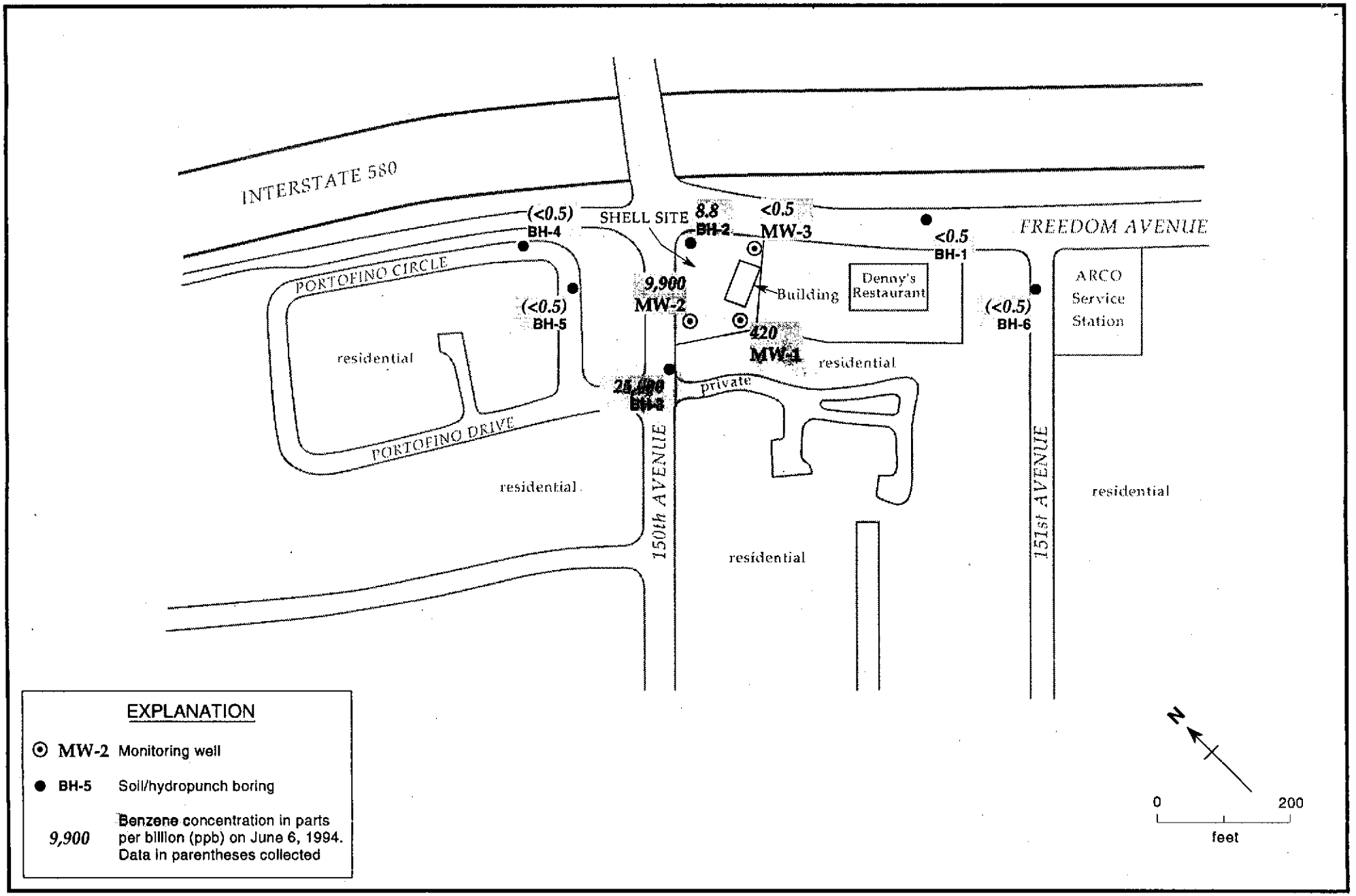


Figure 5. Benzene Concentrations in Ground Water - June 6 and 7, 1994 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Table 1. Hydrocarbons and Volatile Organic Compounds in Soil Analytic Results - Shell Service station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Borehole/ Sample ID	Date Sampled	TPH-G	B	T	E	X	VOCs
		<----------parts per million---------->					
BH-1-21	06/06/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
BH-2-20	06/06/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
BH-3-16	06/06/94	<1.0	0.013	<0.0050	<0.0050	<0.0050	ND
BH-4-20.6	06/07/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
BH-5-15.6	06/07/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
BH-6-20.5	06/07/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
SP1-4	06/07/94	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
VOCs = Volatile organic compounds by EPA Method 8010
ND = Not detected between detection limits of 0.005 and 0.050 ppm
--- = Not analyzed

Analytical Laboratory:

Samples analyzed by Sequoia Analytical, Inc. of Redwood City, California

Table 2. Hydrocarbon and Volatile Organic Compounds in Hydropunch Water Samples Analytic Results - Shell service station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Borehole/ Sample ID	Date Sampled	TPH-G	B	T	E	X	VOCs
		<----------parts per billion (µg/L)---------->					
BH-1	06/06/94	<50	<0.50	<0.50	<0.50	<0.50	---
BH-2	06/06/94	5,200[a]	8.8	<0.50	9.1	<0.50	---
BH-3	06/06/94	120,000[b]	25,000	14,000	3,100	13,000	ND
BH-4	06/07/94	<50	<0.50	<0.50	<0.50	<0.50	---
BH-5	06/07/94	<50	<0.50	<0.50	<0.50	<0.50	---
BH-6	06/07/94	<50	<0.50	<0.50	<0.50	<0.50	---

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
VOCs = Volatile organic compounds by EPA Method 8010
--- = Not analyzed
ND = Not detected between detection limits of 10 and 100 ppb.

Analytical Laboratory:

Samples analyzed by Sequoia Analytical, Inc. of Redwood City, California

Notes:

a = Chromatogram pattern as weathered gasoline.
b = Chromatogram pattern as gasoline.

ATTACHMENT A
STANDARD FIELD PROCEDURES

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 in crushed ice 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.

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

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

Well Development

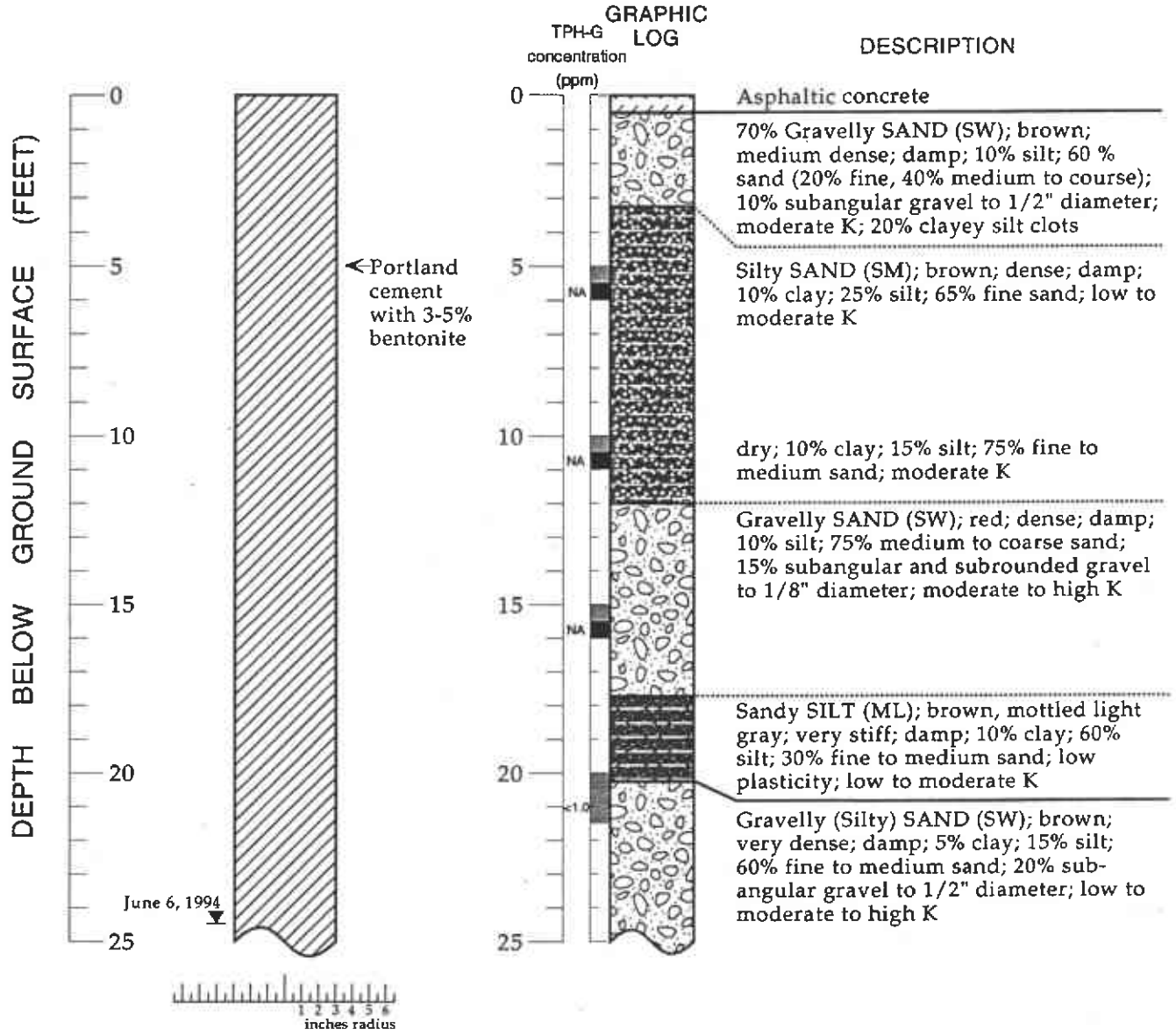
After 72 hours, the wells are developed using a combination of ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of ground water are extracted and the sediment volume in the ground water is negligible. All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 72 hours after they are developed.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water Ph, conductivity, and temperature have stabilized. Ground water samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labelled, placed in protective

foam sleeves, stored at 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

SOIL BORING BH-1



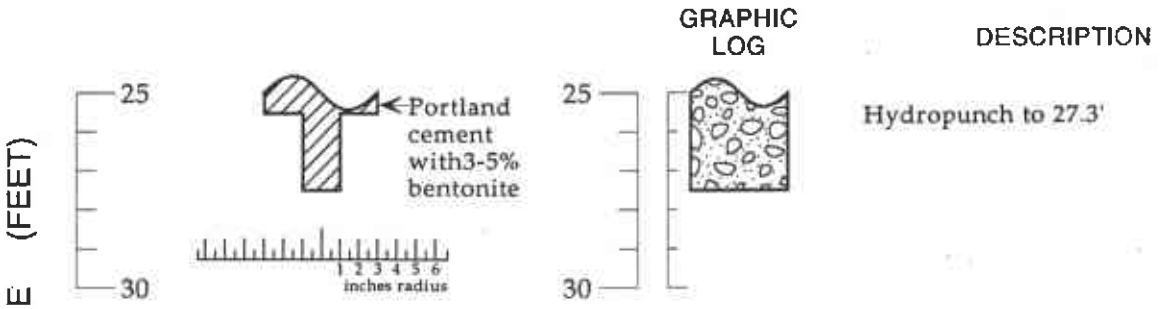
EXPLANATION

- ▼ Water level during drilling (date)
- ⧖ Water level (date)
- ——····—— Contact (dotted where approximate)
- —?—?— Uncertain contact
- ////////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity
- NA = Not analyzed

Logged By: Jonathan Weingast
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Gregg Drilling, Pacheco, CA
License Number: C57-485165
Driller: Mike Braman
Drilling Method: Hollow-stem auger 6"
Date Drilled: June 6, 1994
Well Head Completion: N/A
Type of Sampler: Split spoon (2" ID)
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

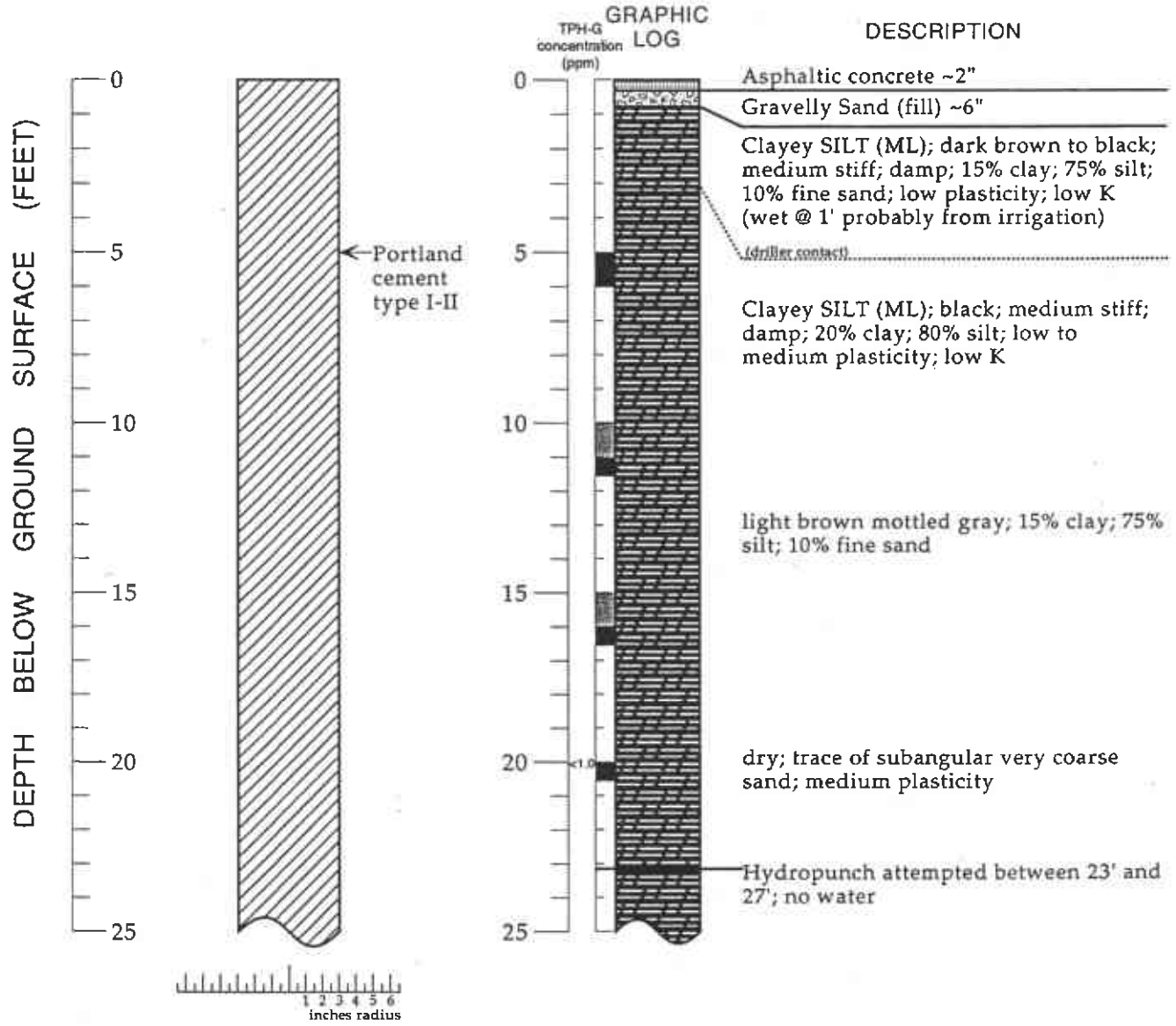
Boring Log Construction Details - BH-1 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-1 (cont.)



Boring Log Construction Details - BH-1 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-2



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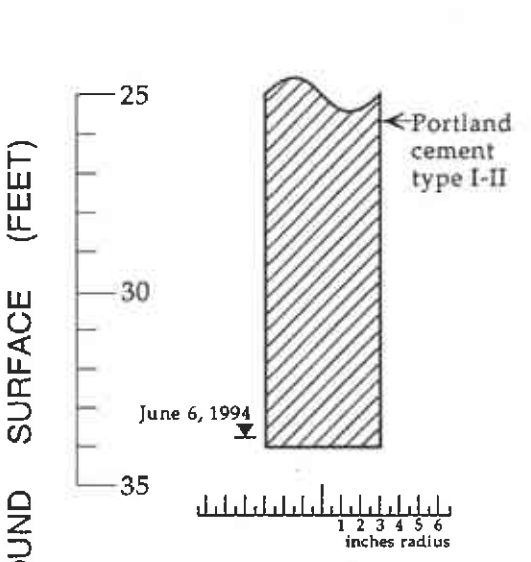
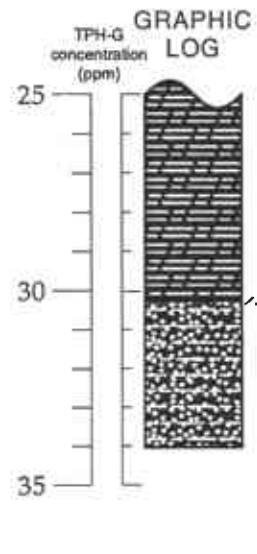
Driller: Mike Braman, Rich Nessinger
Drilling Method: Hollow-stem auger 6"
Date Drilled: June 6, 1994
Well Head Completion: N/A
Type of Sampler: Split spoon (2" ID)
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log Construction Details - BH-2 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-2 (cont.)



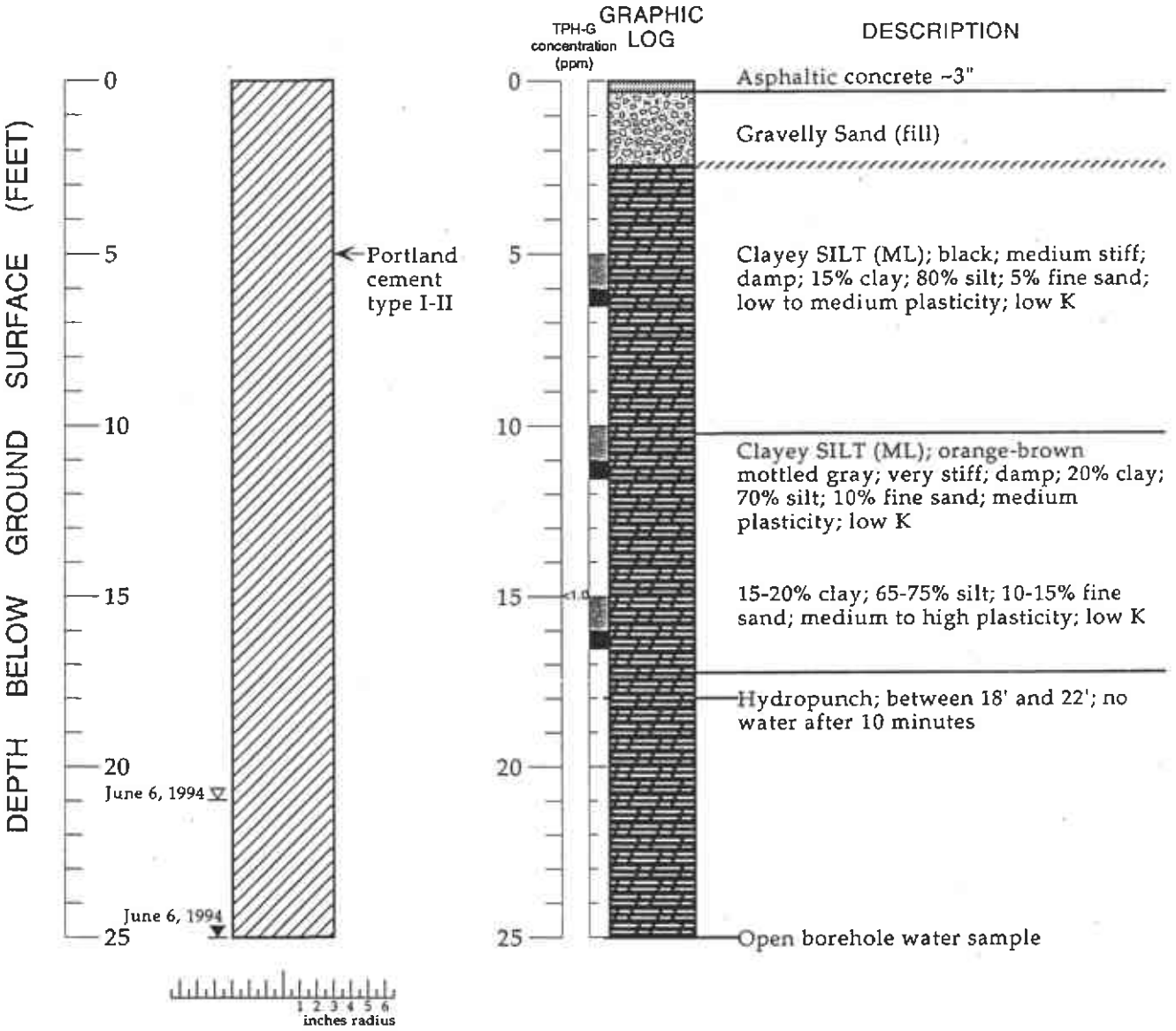


DESCRIPTION

Silty SAND (SM); gray-brown; medium dense; damp; 15% clay; 20% silt; 65% fine to medium sand; low plasticity; low K

Boring Log Construction Details - BH-2 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-3



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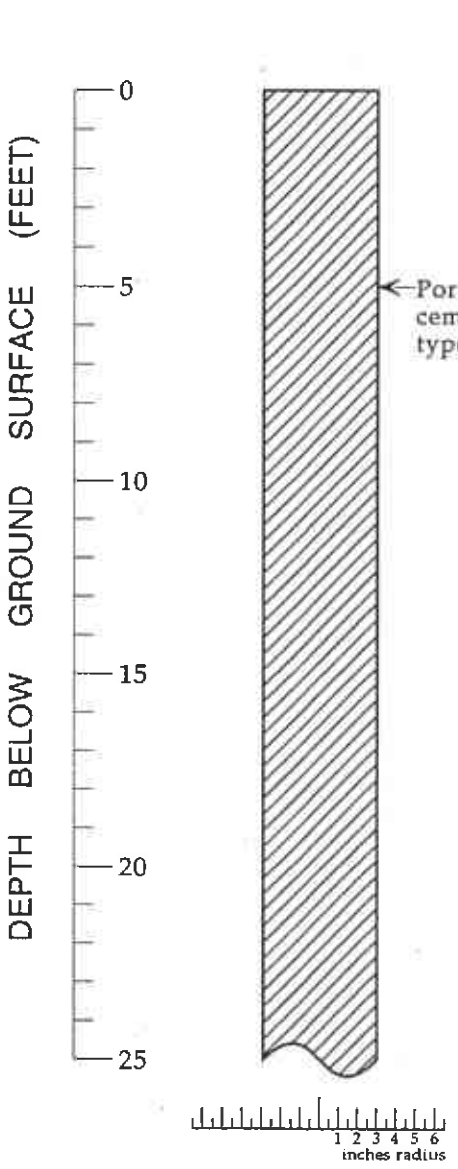
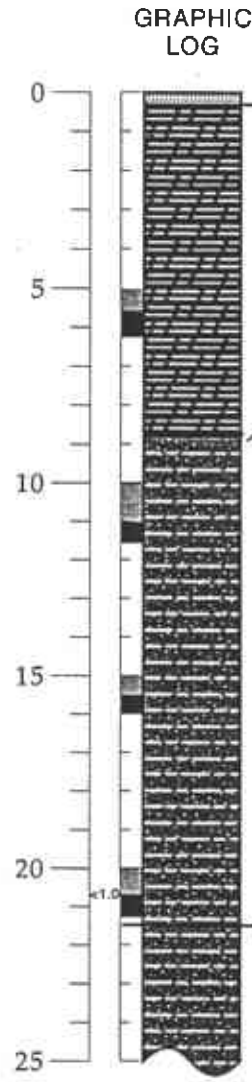
Date Drilled: June 6, 1994
Well Head Completion: N/A
Type of Sampler: Split spoon (2" ID)
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log Construction Details - BH-3 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-4





DESCRIPTION

Asphaltic concrete

Clayey SILT(MH); dark gray to black; soft; damp to moist; 20% clay; 80% silt; high plasticity; low K

dark brown; medium plasticity

Sandy SILT(ML); yellow-brown mottled black; very stiff; damp; 10% clay; 70% silt; 20% fine to medium sand; low plasticity; low K; trace very coarse subangular sand

gray-brown; 10% clay; 60% silt; 25% fine to medium sand; 5% very coarse sand; low plasticity; low K

mottled light gray with calcite veins; 10% clay; 55% silt; 35% fine to medium sand; low plasticity; low K

Hydropunch between 21.5' and 25', no water

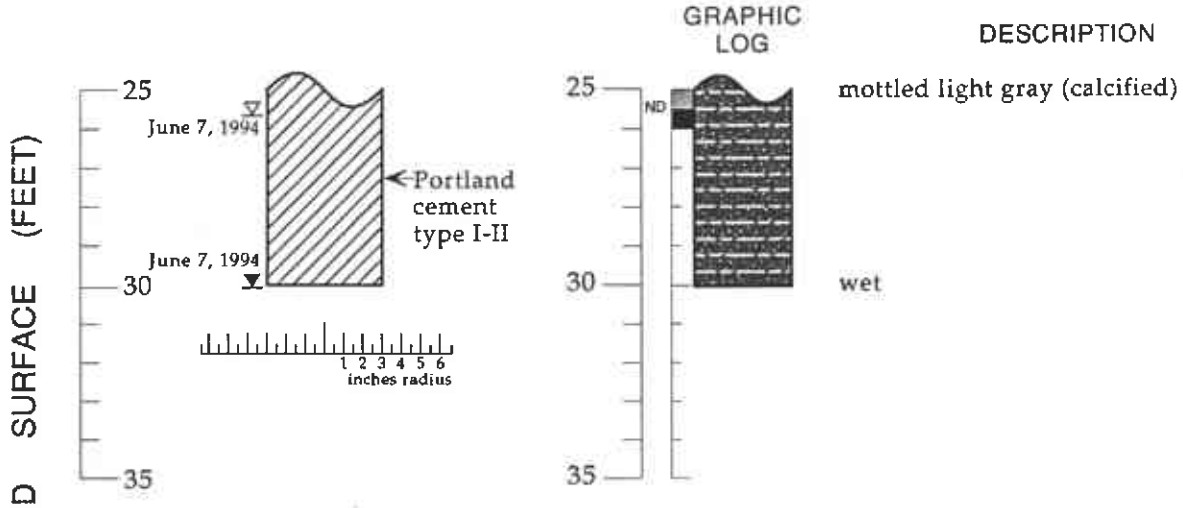
EXPLANATION

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

Logged By: Jonathan Weingast
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Gregg Drilling, Pacheco, CA
License Number: C57-485165
Driller: Mike Braman, Rich Nessinger
Drilling Method: Hollow-stem auger
Date Drilled: June 7, 1994
Well Head Completion: N/A
Type of Sampler: Split spoon (2" ID)
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

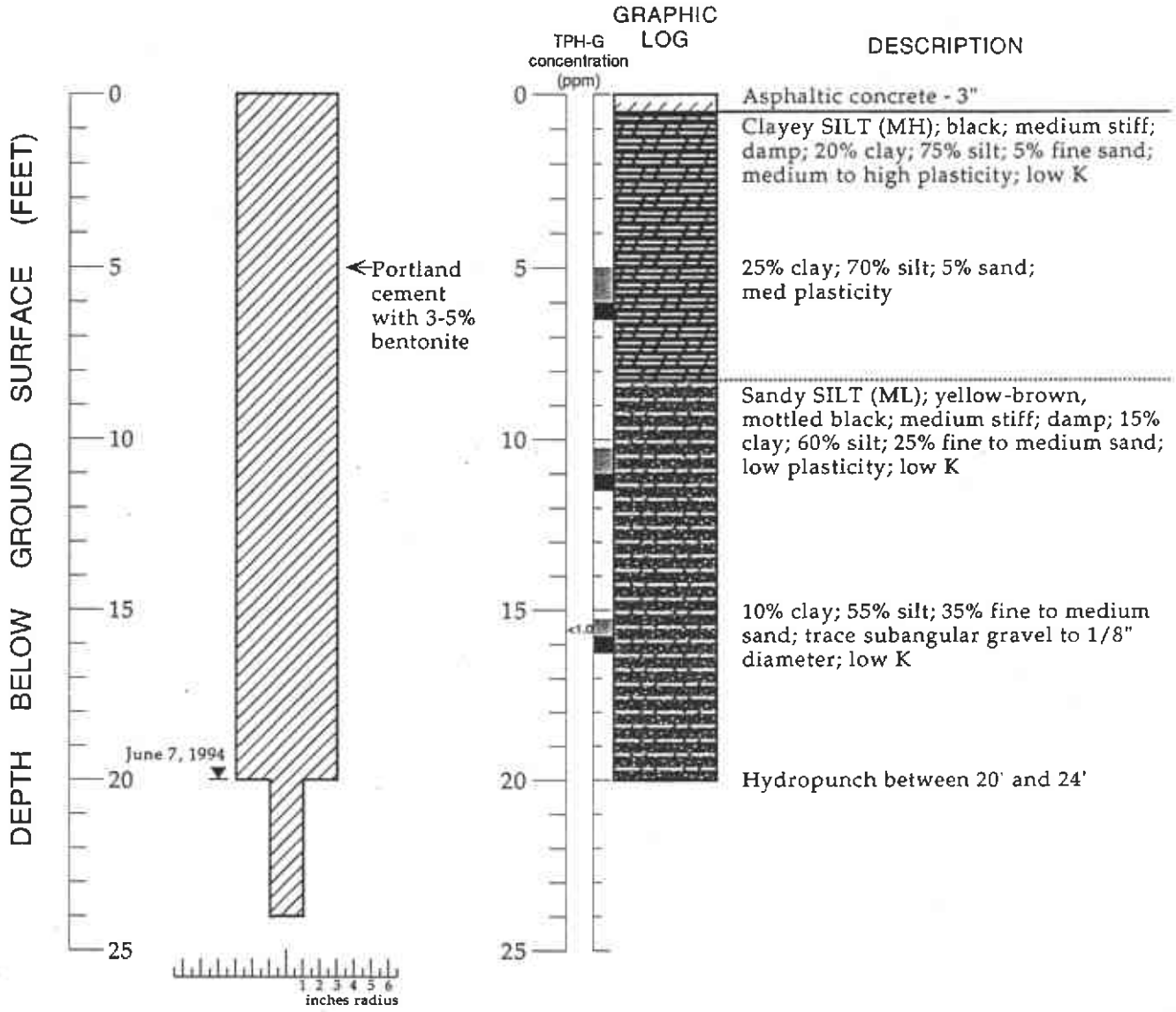
Boring Log Construction Details - BH-4 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-4 (cont.)



Boring Log Construction Details - BH-4 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-5



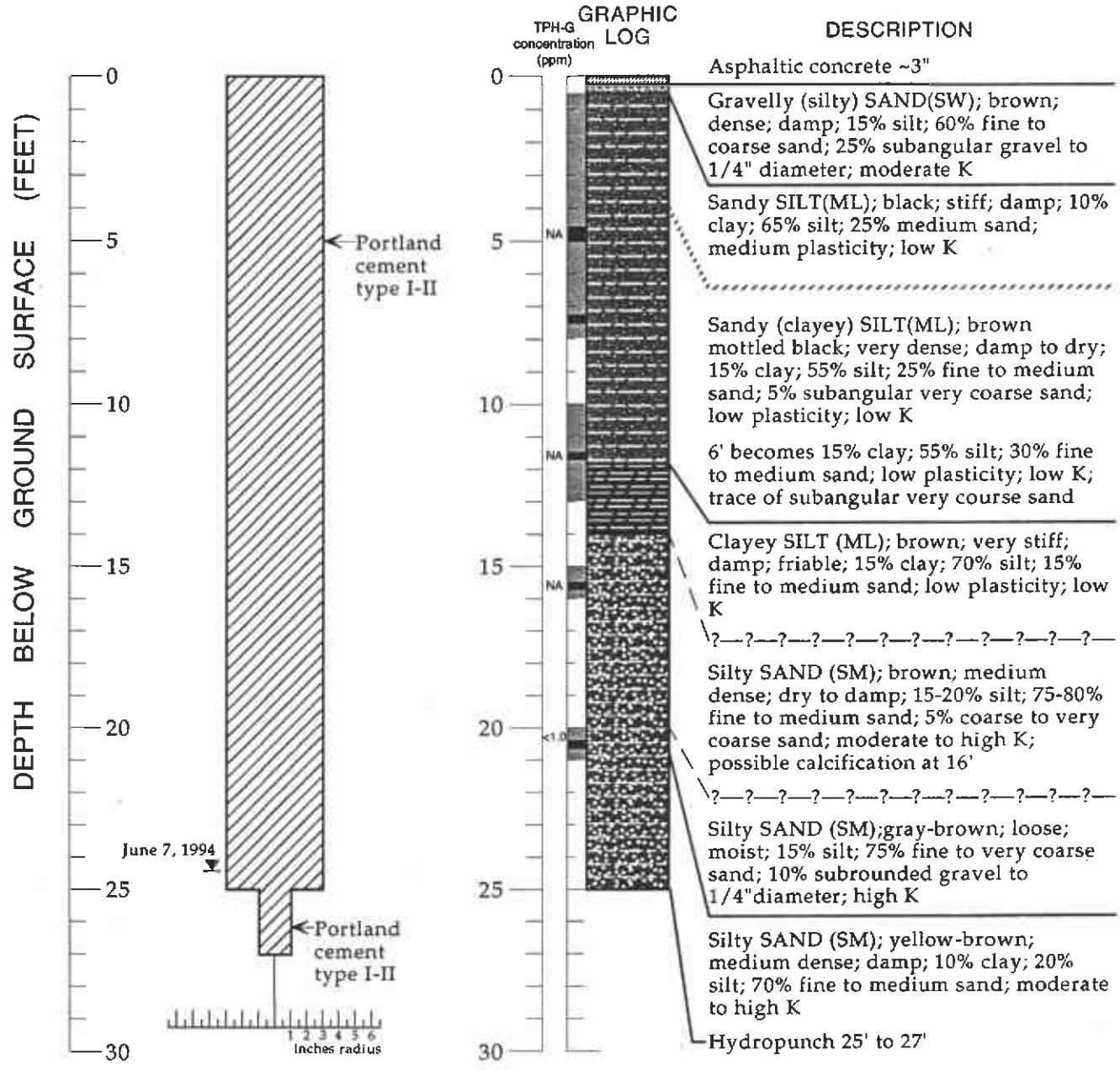
EXPLANATION

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

Logged By: Jonathan Weingast
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Gregg Drilling, Pacheco, CA
License Number: C57-485165
Driller: Mike Braman
Drilling Method: Hollow-stem auger 6"
Date Drilled: June 7, 1994
Well Head Completion: N/A
Type of Sampler: Split spoon (2" ID)
TPH-G: Total Petroleum Hydrocarbons as gasoline in soil by modified EPA Method 8015

Boring Log Construction Details - BH-5 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

SOIL BORING BH-6



EXPLANATION

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity
- NA = Not analyzed

Logged By: Jonathan Weingast
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Gregg Drilling, Pacheco, CA
License Number: C57-485165
Driller: Mike Braman, Rich Nessinger
Drilling Method: Hollow-stem auger 6"
Date Drilled: June 7, 1994
Well Head Completion: N/A
Type of Sampler: Continuous core
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log Construction Details - BH-6 - Shell Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

ATTACHMENT C
ANALYTIC REPORTS FOR SOIL AND GROUND WATER

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Project: Shell, 1784 150th Ave., San Leandro

Enclosed are the results from 7 soil samples received at Sequoia Analytical on June 9,1994. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
4F77801	Soil, BH1-21	6/6/94	EPA 5030/8015 Mod./8020
4F77802	Soil, BH2-20	6/6/94	EPA 5030/8015 Mod./8020
4F77803	Soil, BH3-16	6/6/94	EPA 5030/8010 EPA 5030/8015 Mod./8020
4F77804	Soil, BH4-20.6	6/7/94	EPA 5030/8015 Mod., 8020
4F77805	Soil, BH5-15.6	6/7/94	EPA 5030/8015 Mod./8020
4F77806	Soil, BH6-20.5	6/7/94	EPA 5030/8015 Mod./8020
4F77807	Soil, SP1-4	6/7/94	EPA 5030/8015 Mod./8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell, 1784 150th Ave., San Leandro	Sampled:	Jun 6, 1994
5500 Shellmound	Sample Matrix:	Soil	Received:	Jun 9, 1994
Emeryville, CA 94608	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Jun 20, 1994
Attention: Eric Anderson	First Sample #:	4F77801		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 4F77801 BH1-21	Sample I.D. 4F77802 BH2-20	Sample I.D. 4F77803 BH3-16	Sample I.D.	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.			
Benzene	0.0050	N.D.	N.D.	**0.013**			
Toluene	0.0050	N.D.	N.D.	N.D.			
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.			
Total Xylenes	0.0050	N.D.	N.D.	N.D.			
Chromatogram Pattern:		--	--	C6-C7			

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	6/14/94	6/17/94	6/17/94
Instrument Identification:	GCHP-6	GCHP-6	GCHP-6
Surrogate Recovery, %: (QC Limits = 70-130%)	103	81	82

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell, 1784 150th Ave., San Leandro	Sampled:	Jun 7, 1994
5500 Shellmound	Sample Matrix:	Soil	Received:	Jun 9, 1994
Emeryville, CA 94608	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Jun 20, 1994
Attention: Eric Anderson	First Sample #:	4F77804		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 4F77804 BH4-20.6	Sample I.D. 4F77805 BH5-15.6	Sample I.D. 4F77806 BH6-20.5	Sample I.D. 4F77807 SP1-4 (Comp. of 4)	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.		
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.		
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.		
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.		
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.		
Chromatogram Pattern:		--	--	--	--		

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	6/17/94	6/14/94	6/14/94	6/14/94
Instrument Identification:	GCHP-6	GCHP-6	GCHP-6	GCHP-6
Surrogate Recovery, %: (QC Limits = 70-130%)	84	108	102	108

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

4F77801.WAA <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell, 1784 150th Ave., San Leandro	Sampled:	Jun 6, 1994
5500 Shellmound	Sample Descript:	Soil, BH3-16	Received:	Jun 9, 1994
Emeryville, CA 94608	Analysis Method:	EPA 5030/8010	Analyzed:	Jun 16, 1994
Attention: Eric Anderson	Lab Number:	4F77803	Reported:	Jun 20, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

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1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave., San Leandro
Matrix: Solid
QC Sample Group: 4F77801 - 07

Reported: Jun 20, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	C. Donohue	C. Donohue	C. Donohue	C. Donohue
MS/MSD Batch#:	4F68502	4F68502	4F68502	4F68502
Date Prepared:	6/14/94	6/14/94	6/14/94	6/14/94
Date Analyzed:	6/14/94	6/14/94	6/14/94	6/14/94
Instrument I.D.#:	GCHP-6	GCHP-6	GCHP-6	GCHP-6
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Matrix Spike % Recovery:	90	90	95	92
Matrix Spike Duplicate % Recovery:	85	85	90	88
Relative % Difference:	5.7	5.7	5.4	4.4
LCS Batch#:				
Date Prepared:				
Date Analyzed:				
Instrument I.D.#:				
LCS % Recovery:				
% Recovery Control Limits:	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave., San Leandro
Matrix: Solid
QC Sample Group: 4F77803
Reported: Jun 20, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	H. Porter	H. Porter	H. Porter
MS/MSD Batch#:	V4F67801	V4F67801	V4F67801
Date Prepared:	6/13/94	6/13/94	6/13/94
Date Analyzed:	6/13/94	6/13/94	6/13/94
Instrument I.D.#:	GCHP-9	GCHP-9	GCHP-9
Conc. Spiked:	25 µg/kg	25 µg/kg	25 µg/kg
Matrix Spike % Recovery:	60	92	68
Matrix Spike Duplicate % Recovery:	52	88	64
Relative % Difference:	14	4.4	6.1
LCS Batch#:			
Date Prepared:			
Date Analyzed:			
Instrument I.D.#:			
LCS % Recovery:			
% Recovery Control Limits:	28-167	35-146	38-150

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date:
Page 1 of 5

Site Address: 1734 150th Ave San Leandro

WIC#: 204-6852-1404

Shell Engineer: Dan Kirk — Phone No.: 510-675-6168 Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Eric Anderson — Phone No.: (510) 547-5420 Fax #: 547-5043

WA JOB # 81-422-05

Comments:

Sampled by: Jonathan Weingart

Printed Name: Jonathan Weingart

LAB: Seq Vol9

UST AGENCY: ACDEH

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA ~~8240~~ 8010)	Test for Disposal	Combination TPH 8015 & BTEX 8020	HOLD	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-1 5.5'	6/6/94		X			1							X					9406600	
BH-1 10.5			X			1							X						
BH-1 15.5'			X			1							X						
BH-1 21'			X			1							X						
BH-1 W				X		3				X		X							-01
BH-2 5'			X			1							X						
BH-2 11'			X			1							X						
BH-2 16'	↓		X			1							X						

CHECK ONE (1) BOX ONLY

	CT/DT
G.W. Monitoring	4461
Site Investigation	X 4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME

- 24 hours
- 48 hours
- 15 days X (Normal)
- Other

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

	Printed Name	Date	Time
Relinquished By (signature):	Jonathan Weingart	6/9/94	16:55
Relinquished By (signature):			
Relinquished By (signature):			

	Printed Name	Date	Time
Received (signature):			
Received (signature):			
Received (signature):	KEITH E-GRESS	06 6/94	1655

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/15/93

Shell Oil Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date:
Page 2 of 5

Site Address: 1784 150th Ave San Leandro

WIC#: 204-6852-1404

Shell Engineer: Dan Kirk
Phone No.: 510-675-6163
Fax #:

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Eric Anderson
Phone No.: (510) 547-5420
Fax #: 547-5043
WA JOB # 81-422-05

Comments:

Sampled by: Jonathan Weingast

Printed Name: Jonathan Weingast

LAB: Sequoia

UST AGENCY: ACDEH

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240/8260) 8010	Test for Disposal	Combination TPH 8015 & BTEX 8020	HOLD	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-2 20'	6/4/94		X			1							X					9406600	
BH-2 W				X		3				X		X							-02
BH-3 6'			X			1							X						
BH-3 11'			X			1							X						
BH-3 16'			X			1							X						
BH-3 W				X		3				X		X							-03
BH-4 5.6'	6/7/94		X			1							X						
BH-4 11'	6/7/94		X			1							X						

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	4441	48 hours
Soil Classify/Disposal	4442	15 days (Normal)
Water Classify/Disposal	4443	Other
Soil/Air Rem. or Sys. O & M	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	4453	
Other		

Relinquished By (signature): Jonathan Weingast	Printed Name: Jonathan Weingast	Date: 6/9/94 Time: 16:55	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: KEITA E. CROSS	Date: 6/10/94 Time: 1055

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/11/91

Shell Oil Co. Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: ______

Date:
Page 3 of 5

Site Address: 1784 150th Ave San Leandro

WIC#: 204 6852-1404

Shell Engineer: Dan Kirk
Phone No.: 510-675-6168
Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Eric Anderson
WA JOB # 81-422-05
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: Jonathan Weingart (signature)

Printed Name: Jonathan Weingart

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring ☐	4461	24 hours ☐
Site Investigation ☒	4441	48 hours ☐
Soil Classify/Disposal ☐	4442	15 days ☒ (Normal)
Water Classify/Disposal ☐	4443	Other ☐
Soil/Air Rem. or Sys. O & M ☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M ☐	4453	
Other ☐		

UST AGENCY: ACDEH

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA ~~8240~~ 8010)	Test for Disposal	Combination TPH 8015 & BTEX 8020	HOLD		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-4 15.5'	6/6/94		X			1							X						9406600	
BH-4 20.6'	↓		X			1							X							
BH-4 25.5'	↓		X			1							X							
BH-4 W	↓			X		4				X		X								-04
BH-5 6'	↓		X			1							X							
BH-5 11'	↓		X			1							X							
BH-5 15.6'	↓		X			1							X							
BH-5 W	↓			X		3				X		X								-05

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
Jonathan Weingart (signature)	Jonathan Weingart	Date: 6/7/94 Time: 16:55			Date: Time:
		Date: Time:			Date: Time:
		Date: Time:	Keith Gross (signature)	KEITH E. GROSS	Date: 060994 Time: 1655

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/11/93

Shell Oil Chn. of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date:
Page 4 of 5

Site Address: 1784 150th Ave San Leandro

WIC#: 204-6852-1404

Shell Engineer: Dan Kirk — Phone No.: 510-675-6168 Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Eric Anderson — Phone No.: (510) 547-5420 Fax #: 547-5043

WA JOB # 81-402-05

Comments:

Sampled by: Jonathan Wengert

Printed Name: Jonathan Wengert

LAB: Segura

UST AGENCY: ACDEA

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240) 8010	Test for Disposal	Combination TPH 8015 & BTEX 8020	Hold	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-6 4.8'	6/7/14		X			1							X					9406600	
BH-6 7.5'			X			1							X						
BH-6 11.5'			X			1							X						
BH-6 15.7'			X			1							X						
BH-6 20.5'			X			1							X						
BH-6 W				X		3				X		X							-06
SP-1			X			1							X						
SP-2	↓		X			1							X						

Relinquished By (signature): Jonathan Wengert	Printed Name: Jonathan Wengert	Date: 6/9/14 Time: 16:55	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: KEITH E. GROSS	Date: 060914 Time: 1155

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	X 4441	48 hours
Soil Classify/Disposal	4442	15 days X (Normal)
Water Classify/Disposal	4443	Other
Soil/Air Rem. or Sys. O & M	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	4453	
Other		

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:_____

Date:
Page 5 of 5

Site Address: 1784 150th Ave San Leandro

WIC#: 204-6852-1404

Shell Engineer: Dan Kirk | Phone No.: 510-678-6168 | Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Eric Anderson | Phone No.: (510) 547-5420 | Fax #: 547-5043

WA JOB # 81-422-05

Comments:

Sampled by: Jonathan Weigart

Printed Name: Jonathan Weigart

LAB: Segnor

UST AGENCY: ACDEH

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240) 8010	Test for Disposal	Combination TPH 8015 & BTEX 8020	HOLD		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-3	4/7/94		X			1							X						9406600	
SP-4	↓		X			1							X							

CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME

- G.W. Monitoring ☐ 4461
- Site Investigation ☒ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME: 24 hours ☐ | 48 hours ☐ | 15 days ☒ (Normal) | Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Jonathan Weigart	Jonathan Weigart	6/9/94	16:55				
				Keith E. Cortes	Keith E. Cortes	6/10/94	1655

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 11/03/93

Shell OC Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Project: Shell, 1784 150th Ave, S.L.

Enclosed are the results from 6 water samples received at Sequoia Analytical on June 9, 1994. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
4F60001	Water, BH-1 W	6/6/94	EPA 8015/8020 Mod.
4F60002	Water, BH-2 W	6/6/94	EPA 8015/8020 Mod.
4F60003	Water, BH-3 W	6/6/94	EPA 8010 EPA 8015/8020 Mod.
4F60004	Water, BH-4 W	6/6/94	EPA 8015/8020 Mod.
4F60005	Water, BH-5 W	6/6/94	EPA 8015/8020 Mod.
4F60006	Water, BH-6 W	6/6/94	EPA 8015/8020 Mod.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/06/94
5500 Shellmound	Sample Descript: BH-1 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/12/94
Attention: Eric Anderson	Lab Number: 9406600-01	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes	0.50	N.D.
Chromatogram Pattern:	.....	.....

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/06/94
5500 Shellmound	Sample Descript: [redacted]	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/12/94
Attention: Eric Anderson	Lab Number: 9406600-02	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	**500**	**5200**
Benzene	**5.0**	**8.8**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**9.1**
Xylenes	5.0	N.D.
Chromatogram Pattern:		
Weathered Gas		**+ >C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/06/94
5500 Shellmound	Sample Descript: BH-3 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA 8010	Analyzed: 06/14/94
Attention: Eric Anderson	Lab Number: 9406600-03	Reported: 06/15/94

Halogenated Volatile Organic Compounds (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon Tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	N.D.
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro 2-fluorobenzene	70	130	86

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/06/94
5500 Shellmound	Sample Descript: BH-3 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/13/94
Attention: Eric Anderson	Lab Number: 9406600-03	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	25000	120000 -
Benzene	250	25000 -
Toluene	250	14000 -
Ethyl Benzene	250	3100 -
Xylenes	250	13000 -
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

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Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/07/94
5500 Shellmound	Sample Descript: BH-4 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/11/94
Attention: Eric Anderson	Lab Number: 9406600-04	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes	0.50	N.D.
Chromatogram Pattern:	.....	.....

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	78

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/07/94
5500 Shellmound	Sample Descript: BH-5 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/12/94
Attention: Eric Anderson	Lab Number: 9406600-05	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes	0.50	N.D.
Chromatogram Pattern:	.....	.....

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell, 1784 150th Ave, S.L.	Sampled: 06/07/94
5500 Shellmound	Sample Descript: BH-6 W	Received: 06/09/94
Emeryville, CA 94608	Matrix: WATER	Extracted:
	Analysis Method: EPA8015/8020	Analyzed: 06/12/94
Attention: Eric Anderson	Lab Number: 9406600-06	Reported: 06/15/94

Purgeable TPH / BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
Low/Medium B.P. HC as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes	0.50	N.D.
Chromatogram Pattern:	.....	.....

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	84

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

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave, S.L.
Matrix: Liquid
QC Sample Group: 4F60001 -02,05,06

Reported: Jun 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD Batch#:	4F58204	4F58204	4F58204	4F58204
Date Prepared:	-	-	-	-
Date Analyzed:	6/11/94	6/11/94	6/11/94	6/11/94
Instrument I.D.#:	GCHP-17	GCHP-17	GCHP-17	GCHP-17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	89	90	89	87
Matrix Spike Duplicate % Recovery:	99	100	100	100
Relative % Difference:	11	11	12	14
LCS Batch#:				
Date Prepared:				
Date Analyzed:				
Instrument I.D.#:				
LCS % Recovery:				
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave, S.L.
Matrix: Liquid
QC Sample Group: 4F60003

Reported: Jun 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD Batch#:	4F59703	4F59703	4F59703	4F59703
Date Prepared:	N.A.	N.A.	N.A.	N.A.
Date Analyzed:	6/13/94	6/13/94	6/13/94	6/13/94
Instrument I.D.#:	GCHP-3	GCHP-3	GCHP-3	GCHP-3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	100	100	100	103
Matrix Spike Duplicate % Recovery:	100	100	100	103
Relative % Difference:	0.0	0.0	0.0	0.0

LCS Batch#:				
Date Prepared:				
Date Analyzed:				
Instrument I.D.#:				
LCS % Recovery:				
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave, S.L.
Matrix: Liquid
QC Sample Group: 4F60004

Reported: Jun 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD Batch#:	4F58204	4F58204	4F58204	4F58204
Date Prepared:	N.A.	N.A.	N.A.	N.A.
Date Analyzed:	6/11/94	6/11/94	6/11/94	6/11/94
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	110	110	110	110
Matrix Spike Duplicate % Recovery:	110	110	110	110
Relative % Difference:	0.0	0.0	0.0	0.0

LCS Batch#:				
Date Prepared:				
Date Analyzed:				
Instrument I.D.#:				
LCS % Recovery:				
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Eric Anderson

Client Project ID: Shell, 1784 150th Ave, S.L.
Matrix: Liquid
QC Sample Group: 4F60003

Reported: Jun 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	D. Nelson	D. Nelson	D. Nelson
MS/MSD Batch#:	4F21809	4F21809	4F21809
Date Prepared:	5/11/94	5/11/94	5/11/94
Date Analyzed:	5/11/94	5/11/94	5/11/94
Instrument I.D.#:	GCHP-8	GCHP-8	GCHP-8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Matrix Spike % Recovery:	96	92	88
Matrix Spike Duplicate % Recovery:	104	100	100
Relative % Difference:	8.0	8.3	13

LCS Batch#:			
Date Prepared:			
Date Analyzed:			
Instrument I.D.#:			
LCS % Recovery:			
% Recovery Control Limits:	28-167	35-146	38-150

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

ATTACHMENT D
NON-HAZARDOUS WASTE MANIFESTS

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 394567

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Shell Oil Co
b. Generating Location: 1784 150th Avenue
c. Address: P.O. Box 5278 Concord, CA
d. Address: San Leandro, CA (Service Station)
e. Phone No.:
f. Phone No.:

If owner of the generating facility differs from the generator, provide:

g. Owner's Name:
h. Owner's Phone No.:

i. BFI WASTE CODE: CA 405 0718947 25829

Containers — TYPE: DM - METAL DRUM; DP - PLASTIC DRUM; B - BAG; BA - 6 MIL. PLASTIC BAG or WRAP; T - TRUCK; O - OTHER

j. Description of Waste: Cuttings from Soil Borings

k. Quantity: ~5 Units: yd^3 No.: 1 TYPE: T

UNITS: P - POUNDS; Y - YARDS; M^3 - CUBIC METERS; Y^3 - CUBIC YARDS; O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Weiss Associates — Jonathan Weiss — for Shell — 072794

Generator Authorized Agent Name / Signature / Shipment Date

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: JERUICON INC / SERNACH TRK
b. Address: 1565 EAST BETTERAVIA ROAD, SANTA MARIA CA 93454
c. Driver Name/Title: JAMES SERNACH (PRINT/TYPE)
d. Phone No.: 805-922-0771
e. Truck No.: I-2
f. Vehicle License No./State: SP 30570

Acknowledgement of Receipt of Materials.

g. Driver Signature — Shipment Date: 072794

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.:
l. Truck No.:
m. Vehicle License No./State:

Acknowledgement of Receipt of Materials.

n. Driver Signature — Shipment Date:

Section III DESTINATION (Generator completes a-d, destination site completes e-f.)

a. Site Name: BFI
c. Phone No.: 447-0491
b. Physical Address: 4001 N Vasco rd, Livermore CA
d. Mailing Address: Same

e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent — Signature — Receipt Date: 72794

Section IV ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name:
b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: (Print/Type) — Operator's* Signature — Date

f. Name and Address of Responsible Agency:

g. ☐ Friable; ☐ Non-friable; ☐ Both _____ % friable _____ % nonfriable

* Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.