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#229

August 8, 1995

Mr. Lynn Walker
Shell Oil Products Company
P. O. Box 4023
Concord, California 94524

RE: **Site Assessment Report**
Former Shell Service Station
2101 Park Boulevard
Oakland, California
WIC 204-5508-1206

Dear Mr. Walker

This report documents site assessment activities performed at the above referenced site (Plates 1 and 2). The work included a well survey, research of adjacent property usage, drilling exploratory borings, installation of 3 groundwater monitoring wells, associated soil and groundwater sampling, and preparation of this report. This work was performed to comply with Alameda County Health Care Services Agency (ACHCSA) and Regional Water Quality Control Board guidelines.

1.0 SITE DESCRIPTION

The subject site is located on the northeast corner of Park Boulevard and Newton Avenue in Oakland, California. The site is currently vacant Goodyear tire service store with a layout including a service building with seven hydraulic lifts, a waste oil tank, and a trash enclosure. The former site layout included three separate generations of underground fuel storage tanks (USTs), a total of three dispenser islands, and two separate generations of waste oil tanks. Plate 2 shows the former locations of these site features along with the existing building features. The site history is documented in Enviros' February 24, 1995 Work Plan.

2.0 SITE RESEARCH

Site research was conducted to determine nearby current property usage and to identify nearby wells within a 1/2 mile radius of the subject site.

A survey of the current property usage within a 2 block radius of the subject site was conducted on May 16, 1995. Property usage in the vicinity of the subject site consists of predominantly residential dwellings and some commercial usage along Park Boulevard. A map of the surrounding area (Plate 3) was prepared and identifies nearby commercial sites

A well survey was conducted through the County of Alameda Public Works Agency which identified wells within a 1/2-mile radius of the subject site. A map and list of the wells present within 1/2-mile of the subject site are presented in Appendix A. The closest wells to the subject site are located upgradient and crossgradient at a distance of more than 800 feet. No wells were identified immediately downgradient of the subject site

3.0 FIELD PROCEDURES

3.1 Exploratory Soil Borings

Nine exploratory soil borings were drilled and sampled on May 16, 1995 using the Geoprobe drilling system. The locations and designations of each boring are shown on Plate 2. Soil samples were collected at five-foot intervals for chemical analysis and lithologic description. One boring (S-G), located east of the former fuel UST was continuously cored.

An Enviros geologist supervised the drilling and described encountered soils using the Unified Soil Classification System and Munsell Color chart. Encountered lithology is described on the exploratory boring logs presented in Appendix A.

Soil samples collected from above the saturated zone in each boring were submitted for laboratory analysis. These sample tubes were covered with Teflon tape, capped, labeled, entered onto a Chain-of-Custody record, and stored in a cooler with ice. The samples were transported to National Environmental Testing, Inc. (NET) of Santa Rosa, California, a state-certified environmental laboratory for analysis.

Selected soil samples from the borings were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-G) according to EPA Method 8015 (Modified), and benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method 8020. In addition, the soil sample from Boring S-L was analyzed for volatile organics (VOCs) by EPA Method 8010.

3.2 Monitoring Well Installations

Three additional exploratory soil borings were drilled on June 15, 1995 and completed as a groundwater monitoring wells (Wells S-1, S-2, and S-3). The wells were constructed of 2-inch diameter threaded Schedule 40 PVC well casing. Well screen was placed from 3 to 18 feet below grade, in the first encountered water bearing zone.

Well construction included the placement of Lonestar #2/12 sand to one foot above the top of the screen interval. A one foot thick bentonite seal was placed above the sandpack followed by a concrete seal up to grade. The well was secured with a locking well plug and a vault box. Well completion details are presented on the exploratory boring log contained in Appendix B.

The elevations of the newly installed wells were surveyed to Mean Sea Level datum by a state of California registered Land Surveyor. The top of casing and top of vault box elevations for the well were surveyed to the nearest 0.01 foot

Decontamination Procedures

Drilling and sampling equipment were decontaminated prior to beginning work and between activities performed at each boring. Drilling equipment was inspected prior to drilling each boring.

Soil Stockpile

Less than 5 cubic yards of soil were generated as a result of drilling activities. This soil was placed on and covered with visqueen. The soil stockpile is located along the eastern property boundary. Samples of this soil were collected for chemical analysis of TPH-G, BTEX, and Total Threshold Limit Concentration (TTLC) Lead by EPA Method 7421 to aid in determining a proper disposal facility for the soil. The soil was hauled to Redwood Landfill for disposal on July 21, 1995 by Manley and Sons Trucking of Sacramento, California.

3.3 Groundwater Sampling and Well Development

Exploratory Borings

Water samples were collected from exploratory borings S-D and S-L using the Geoprobe water sampling equipment. These samples were analyzed for TPH-G and BTEX. In addition, the water sample from Boring S-L was analyzed for VOCs. Because of limited groundwater yield from Boring S-L water samples for analysis for Total Petroleum Hydrocarbons calculated as Diesel (TPH-D), Oil and Grease, and ICAP Metals could not be collected.

Monitoring Wells

On June 20, 1995, Blaine Tech Services, Inc. (Blaine) in San Jose, California developed Wells S-1, S-2 and S-3 by surging and purging the wells. Water level measurements and groundwater samples were collected from Wells S-1 through S-3 by Blaine on June 22, 1995. Groundwater samples were transported to NET where they were analyzed for TPH-G and BTEX. Groundwater samples from Well S-1 were also analyzed for Oil and Grease, VOCs, TPH-D, and ICAP Metals.

Quality control samples included a duplicate sample (from Well S-3) and a trip blank.

4.0 FINDINGS

4.1 Geology and Hydrogeology

Lithology encountered during the drilling of the exploratory soil borings consisted predominantly clay (CL) with lesser amounts of silt (ML), clayey sand (SC), sand (SP), and gravel (GM) to a depth of approximately 18 fbg.

First encountered groundwater occurred in Borings S-1 and S-3 at 5 to 5.5 fbg. Groundwater was not encountered in Well S-2 during drilling. Several hours after drilling S-2 groundwater was noted at approximately 17.5 fbg. Groundwater in all three wells later stabilized at approximately 3.5 to 5.5 fbg. Water level data collected on June 22, 1995 were used to construct a groundwater contour map (Plate 4) and to calculate groundwater flow direction and gradient. Groundwater flow direction was determined to be generally southwesterly with an approximate gradient of 0.03.

4.2 Soil Chemical Analytical Data

Soil chemical analytical data are presented in Table 1. The distribution of petroleum hydrocarbons in soils is shown on Plate 3. Certified analytical reports for soils are contained in Appendix C. A summary of the soil chemical analytical results for each boring are presented below.

Former 1st Generation USTs

Soil Borings S-B and S-2 were drilled near the southern property line adjacent to the location of four former USTs. The soil sample from S-B at 3 fbg was found to have non-detectable (ND) concentration of TPH-G and 0.0031 parts per million (ppm) benzene.

Three soil samples from Boring S-2 collected at the depths of 5, 10, and 15 fbg were analyzed for TPH-G and BTEX. The soil sample from 5 fbg contained 200 ppm TPH-G and was ND for benzene. The soil sample from 10 fbg contained 40 ppm TPH-G and was ND for benzene. The soil sample from 15 fbg was ND for both TPH-G and benzene.

Former 2nd Generation USTs

Boring S-C was drilled in the center of the former second generation UST complex. Boring S-F was drilled downgradient of the former second generation UST and Boring S-G was drilled upgradient of the former second generation UST.

Soil samples collected from 5 fbg from Borings S-F and S-G and from 6 fbg in Boring S-C were ND for TPH-G and benzene.

Former 3rd Generation USTs

Boring S-D was drilled in the center of the third generation UST and Boring S-3 was drilled adjacent to and downgradient of this UST complex.

The soil sample collected from 6 fbg from Boring S-D was ND for TPH-G and benzene. The soil sample collected from 5.5 fbg in Boring S-3 contained 550 ppm TPH-G and was ND for benzene. The 10.5 fbg soil sample from S-3 was ND for TPH-G and benzene

Former Dispenser Islands

Three borings (S-H, S-I. and S-J) were drilled in each of three former dispenser island locations. Boring S-H was drilled in the center of the former northwest dispenser island, Boring S-I was drilled in the center of the former southeast dispenser island. and Boring S-J was drilled in the center of the former southwest dispenser island.

The soil sample collected from 6.5 fbg in Boring S-H contained 410 ppm TPH-G and 0.42 ppm benzene. The soil sample collected from 3.5 fbg in Boring S-I contained 170 ppm TPH-G and 0.74 ppm benzene. The soil sample collected from 4 fbg in Boring S-J contained 380 ppm TPH-G and 0.78 ppm benzene.

Waste Oil Tank Borings

Because the existing building is located on top of the former waste oil tank locations borings could not be placed adjacent to the former waste oil tank locations. Boring S-L was added to the scope of work at the request of ACHCSA in the location shown on Plate 2. The location was selected as being the closest downgradient location to the former waste oil tanks. The soil sample collected at 5.5 fbg in this boring was ND for TPH-G, BTEX, and VOCs. (Should have run TEPH(D+G))

Based on the groundwater flow direction determined by the newly installed site wells it appears that Well S-1 is more directly downgradient of the former waste oil tanks than Boring S-L. Soil samples collected from S-1 at 5 and 10 fbg were ND for TPH-G and benzene.

4.3 Groundwater Chemical Analytical Data

Grab groundwater samples were collected from Borings S-D and S-L and were ND for TPH-G and BTEX.

Groundwater samples collected from Well S-1 contained 160 parts per billion (ppb) TPH-G and were ND for benzene. Groundwater samples collected from Well S-2 contained 180 ppb TPH-G and 1.1 ppb benzene. Groundwater samples collected from Well S-3 contained 5,500 ppb TPH-G and 240 ppb benzene.

Groundwater samples collected from Well S-1 were also analyzed for TPH-D. Oil and Grease, VOCs. and ICAP Metals. TPH-D was detected in this sample at a concentration of 360 ppb. VOCs and Oil and Grease were not detected in this sample. The only metal detected at levels exceeding State of California Maximum Contaminant levels for drinking water was chromium at a concentration of 270 ppb.

Groundwater chemical analytical data are presented on Table 2. The distribution of benzene in groundwater is shown on Plate 5. The Blaine groundwater monitoring report is presented in Appendix D.

5.0 CONCLUSIONS

Soils beneath the site consisted predominantly of clay with lesser amounts of silt, clayey sand, sand, and gravel to the total depth explored of approximately 18 fbg. Groundwater was first encountered at approximately 5.5 fbg in Borings S-1 and S-3. Groundwater was not encountered in Boring S-2 during drilling. Groundwater in all three wells later stabilized at depths ranging from 3.5 to 5.5 fbg. Groundwater flow direction was calculated to be generally southwesterly at an approximate gradient of 0.03.

Hydrocarbons were detected in capillary fringe soil samples collected from beneath the three former dispenser island (Borings S-H, S-I, and S-J) at concentrations ranging from 170 ppm to 410 ppm TPH-G. Benzene concentrations in these borings were less than 1 ppm. Boring S-2 located in the southwestern portion of the site contained 200 ppm TPH-G at 5 fbg and 40 ppm TPH-G at 10 fbg. Benzene was not detected in these samples. Soil samples collected from Borings S-C and S-D located in the center of the former 2nd and 3rd generation USTs were ND for TPH-G and benzene.

Groundwater samples from Borings S-D and S-L were ND for TPH-G and benzene. Groundwater samples analyzed from Wells S-1, S-2, and S-3 contained TPH-G at concentrations ranging from 160 to 5,500 ppb and benzene concentrations ranging from ND to 270 ppb. Groundwater samples from Well S-1 were also found to contain 360 ppb TPH-D. Additional analysis of groundwater samples from Well S-1 did not detect the presence of Oil and Grease or VOCs. Chromium was present in the groundwater sample from S-1 at a concentration of 270 ppb.

If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.

Joe W. Neely
Project Geologist

Diane M. Lundquist, P.E.
Senior Engineer
C46725

Attachments:

Table 1.	Soil Chemical Analytical Data
Table 2.	Groundwater Chemical Analytical Data
Plate 1.	Vicinity Map
Plate 2.	Site Plan
Plate 3.	Current Vicinity Land Usage Map
Plate 4.	Soil Chemical Analytical Map
Plate 5.	Groundwater Contour Map
Plate 6.	Benzene Concentration Map
Appendix A:	Well Survey Information
Appendix B:	Exploratory Boring Log
Appendix C:	Soil Analytical Results - Sequoia Laboratory Reports & Chain-of Custody Records
Appendix D:	Blaine Groundwater Monitoring Report, and Well Development Data

cc: Mr. Barney Chan, Alameda County Health Care Services Agency

TABLE 1

SOIL CHEMICAL ANALYTICAL DATA

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

BORING WELL NUMBER	SAMPLE NO.	DEPTH (FT.)	SAMPLE DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYL BENZENE (PPM)	XYLENES (PPM)
S-B	SB-3	3.0	16-May-95	<1	0.0031	<0.0025	<0.0025	0.0025
S-C	SC-6	6.0	16-May-95	<1	<0.0025	<0.0025	<0.0025	<0.0025
S-D	SD-6	6.0	16-May-95	<1	<0.0025	<0.0025	<0.0025	<0.0025
S-F	SF-5	5.0	16-May-95	<1	<0.0025	<0.0025	<0.0025	0.0076
S-G	SG-5	5.0	16-May-95	<1	<0.0025	<0.0025	<0.0025	<0.0025
S-H	SH-6.5	6.5	16-May-95	410	0.42	0.66	10	56
S-I	SI-3.5	3.5	16-May-95	170	0.74	5.7	4.5	26
S-J	SJ-4	4.0	16-May-95	380	0.78	0.68	5.1	23
S-L	SL-5.5	5.5	16-May-95	<1	<0.0025	<0.0025	<0.0025	<0.0025
S-1	S-1-5	5.0	15-Jun-95	<1	<0.0050	<0.0050	<0.0050	<0.0050
	S-1-10.5	10.5	15-Jun-95	<1	<0.0050	<0.0050	<0.0050	<0.0050
S-2	S-2-5	5.0	15-Jun-95	200	<0.12	2.4	2.1	3.3
	S-2-10	10.0	15-Jun-95	40	<0.025	0.30	0.15	0.46
	S-2-15	15.0	15-Jun-95	<1	<0.0050	<0.0050	<0.0050	<0.0050
S-3	S-3-5.5	5.5	15-Jun-95	550	<0.50	<0.50	7.3	27
	S-3-10.5	10.5	15-Jun-95	<1	<0.0050	<0.0050	<0.0050	<0.0050

Abbreviations:

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

TABLE 2

GROUNDWATER CHEMICAL ANALYTICAL DATA

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

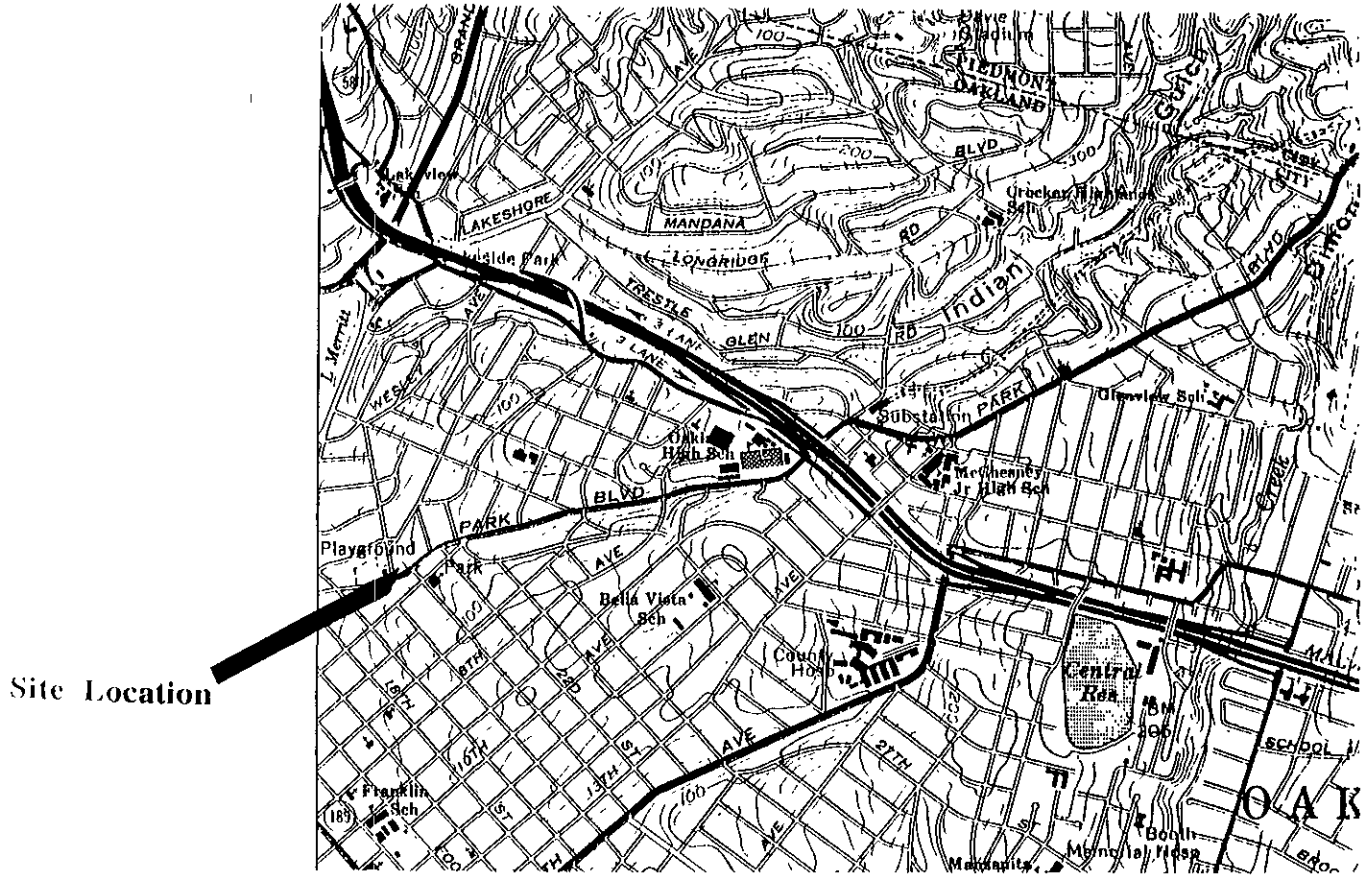
WELL NUMBER	DATE	TOP OF CASING ELEV. (ft)	DEPTH TO WATER (ft)	GROUND WATER ELEV. (ft)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYL BENZENE (PPB)	XYLENES (PPB)
S-D	16-May-95	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5
S-L	16-May-95	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5
S-1	20-Jun-95	11.93	4.67	7.26	160	<0.5	<0.5	<0.5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

next spl.
9/20/95

Abbreviations

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

Note All wells surveyed to Mean Sea Level



PLATE

1

VICINITY MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
E4/95267.01

Drawn By: GLV

Date: 2-24-95

Approved By: JM

Date: 8-Aug-95

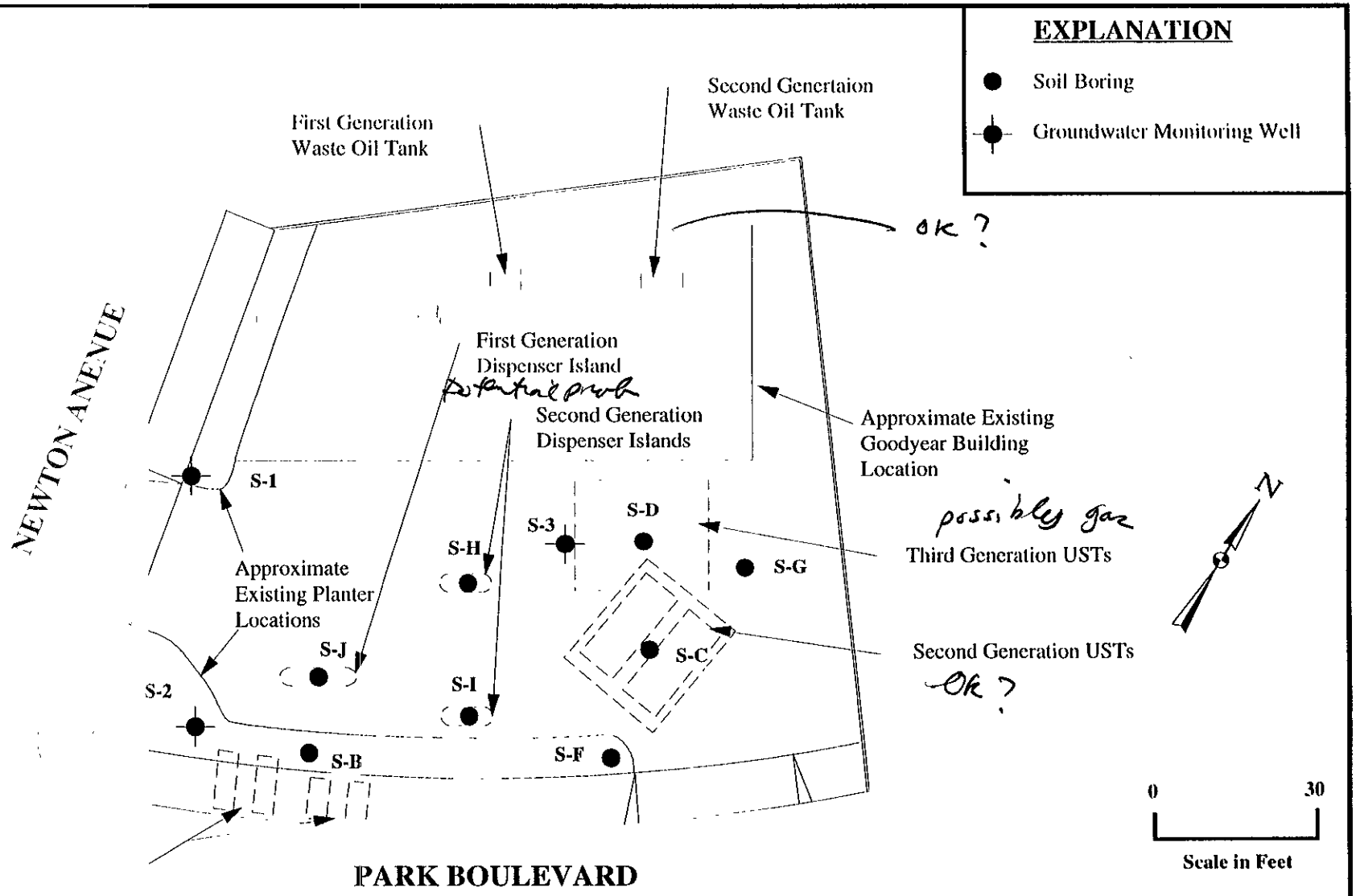


PLATE
2

SITE PLAN
Former Shell Service Station
2101 Park Boulevard
Oakland, California

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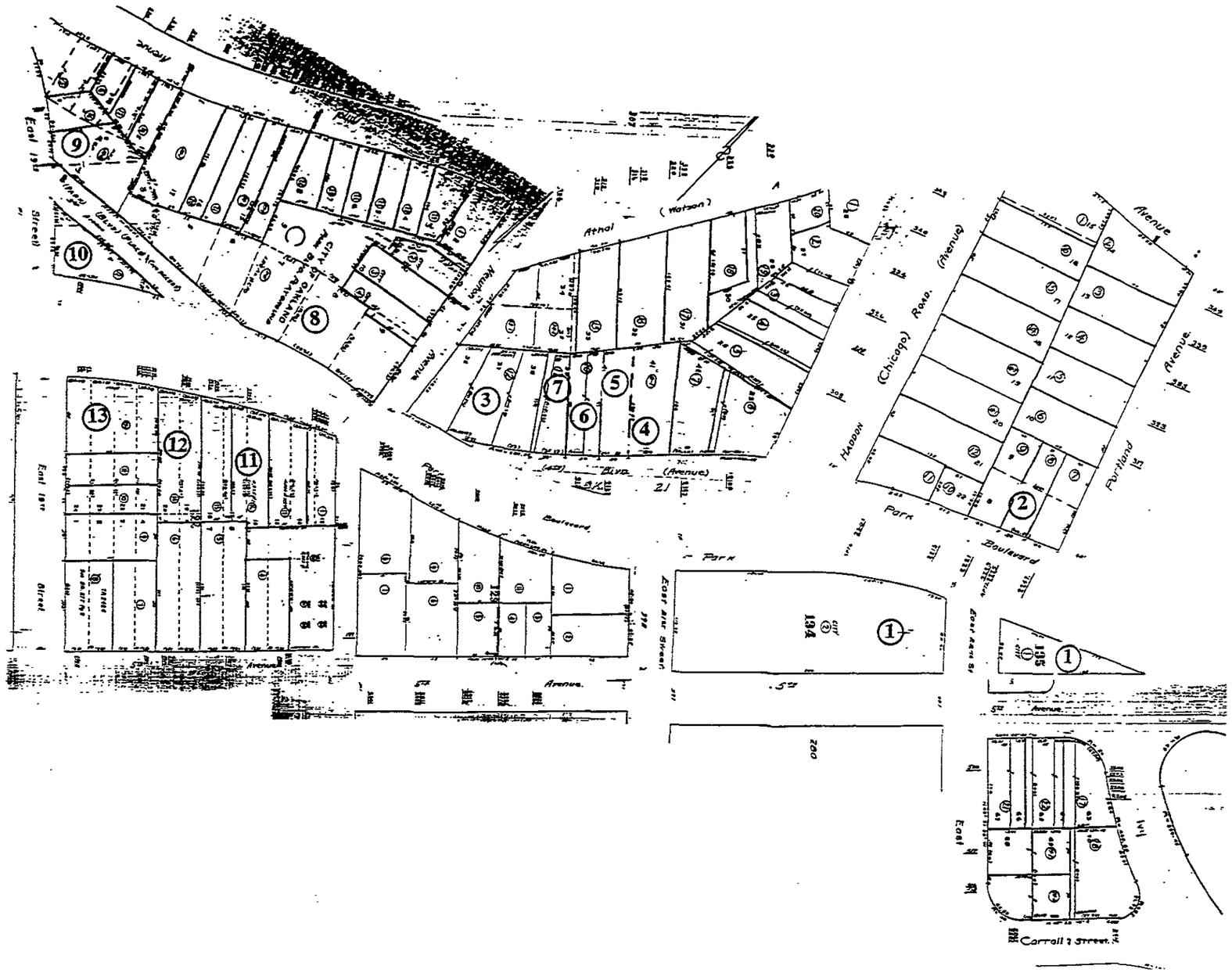
95267

Drawn By: JWN | Date: 7-7-95 | Approved By: JR | Date: 8-Aug-95



NO SCALE

EXPLANATIONAL: ASSESSOR'S PARCEL NUMBERS

(22-306-12) (BOOK NUMBER - PAGE - PARCEL)

PARCEL USES

①	(21-279-134,135)	City owned property used as a park
②	(22-312-08)	2225 Park Blvd Sessions and Clippers Hair Salon
③	(22-306-12)	2101 Park Blvd Subject site: currently is occupied by Goodyear Tires. Goodyear tires is currently not using this property and the shop in place is not in use. It is not known if Goodyear plans to reuse or sell the current property.
④	(21-278-08)	2004 Park Blvd The Phoenix Restaurant 2008 Park Blvd Hon Hing Market
⑤	(21-278-09)	Best Balloons - Site is vacant with "Best Balloons" sign in window
⑥	(21-278-10)	2022 Park Blvd Continental Hair Design
⑦	(21-278-11)	401 East 21st Street This parcel is occupied by a dental office.
⑧	(21-229-2 through 9)	These parcels are occupied by a city park.
⑨	(21-229-13-3)	1901 Park Blvd Place Lakeshore Convalescent Hospital
⑩	(21-229-12)	1901 Park Blvd This parcel is occupied by an auto shop. The shop appears to have been a former service station and no name is apparent. There are two small uncovered soil stockpiles in the northwest corner of the site.
⑪	(21-277-16)	1934 Park Blvd. St. Onge and Associates
⑫	(21-277-14)	1918 Park Blvd - Contractor's Discount Supplies 1920 Park Blvd - American Short-Hand Machine Service
⑬	(21-277-13-1)	1910 Park Blvd Casa Vallarta Restaurant. This business appears to occupy two parcels 1900 Park Blvd Mega Video: This business appears to occupy two parcels

NOTES:

All other parcels shown were reviewed and found to be residential.
Immediate vicinity use surveyed on 5-17-95.

enviros.

DRAWN BY: GLV
REVIEWED BY: M
DATE: 8-Aug-95

NO.	DATE	BY	DESCRIPTION

CURRENT VICINITY LAND USE MAP

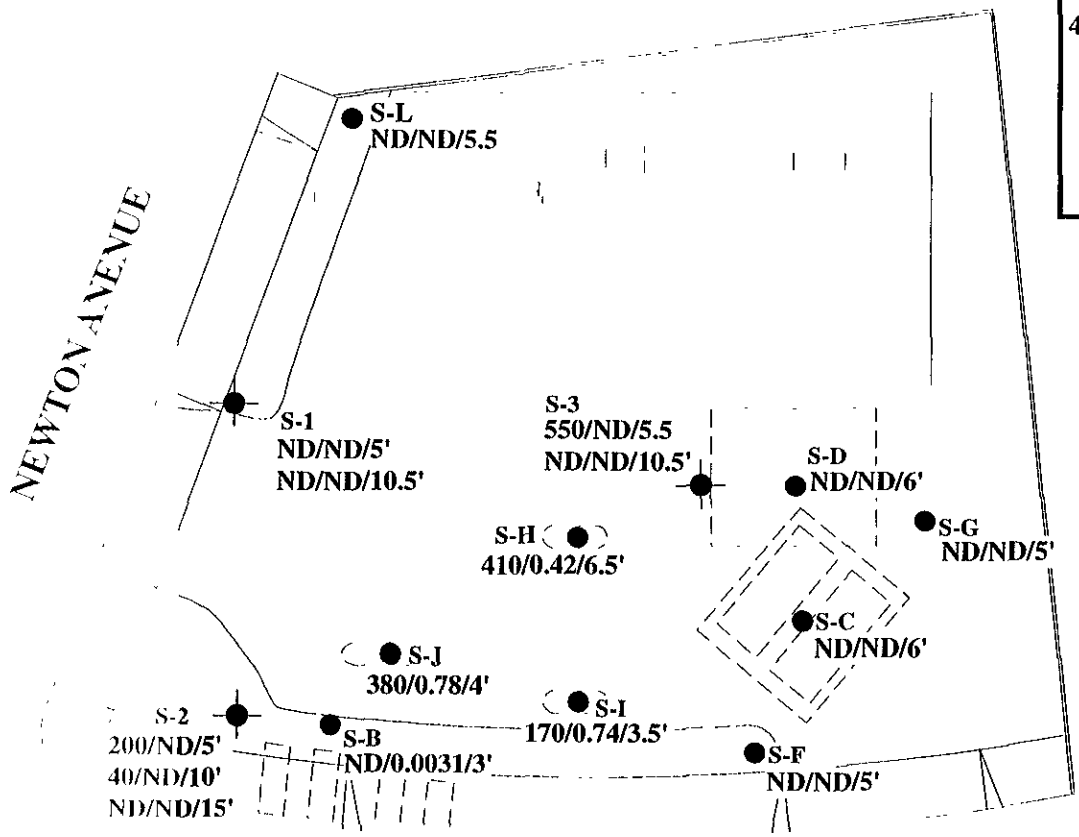
FORMER SHELL SERVICE STATION
2101 PARK BOULEVARD
OAKLAND, CALIFORNIA

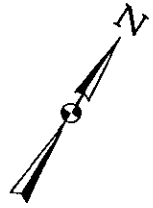
PLATE
3

EXPLANATION

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

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





0 30

Scale in Feet

PLATE **4**

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

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95267

Drawn By: JWN | Date: 25-Jul-95 | Approved By: JRS | Date: 8-Aug-95

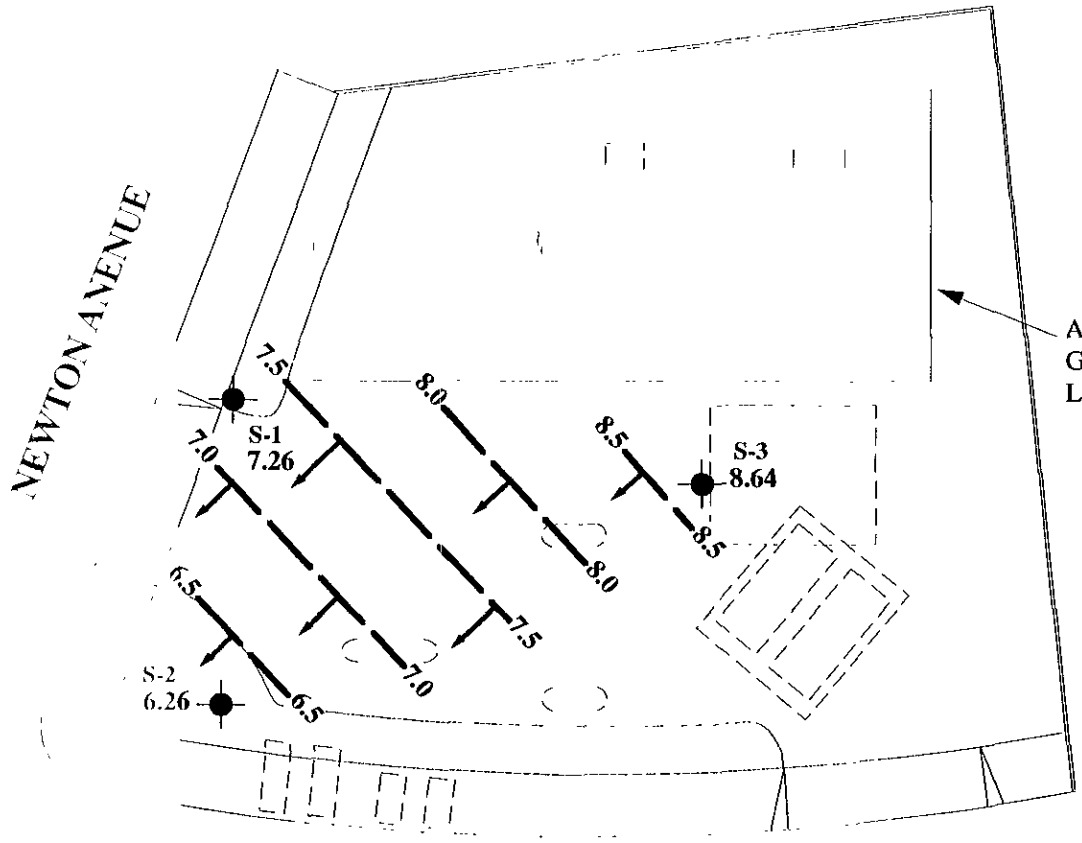
EXPLANATION

Groundwater Monitoring Well

Groundwater elevation contour (referenced to Mean Sea Level). Arrows indicate approximate groundwater flow direction.

Approximate hydraulic gradient = 0.03

Note: Water level data collected 20-Jun-95



N

0 30

Scale in Feet

PLATE **5**

GROUNDWATER CONTOUR MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

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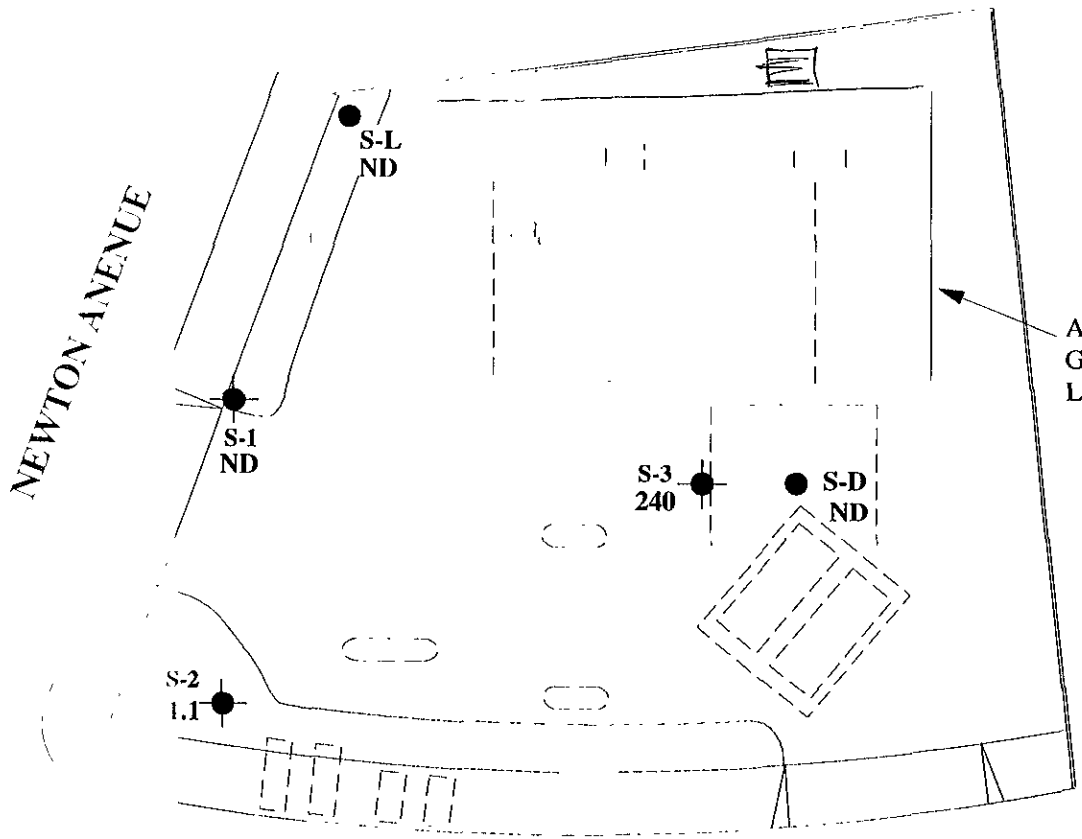
95267

Drawn By JWN | Date: 24-Jul-95 | Approved By: _____ Date: 8 Aug 95

EXPLANATION

- Groundwater Monitoring Well
- Soil Boring
- 240 — Benzene concentration in groundwater in parts per billion.
- ND — None detected

Note: Water samples collected from borings 16-May -95; from Wells 22-Jun-95.



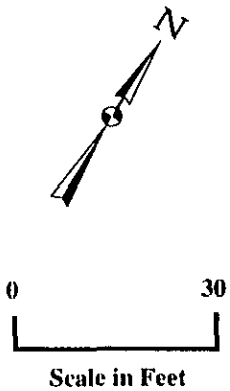


PLATE **6**

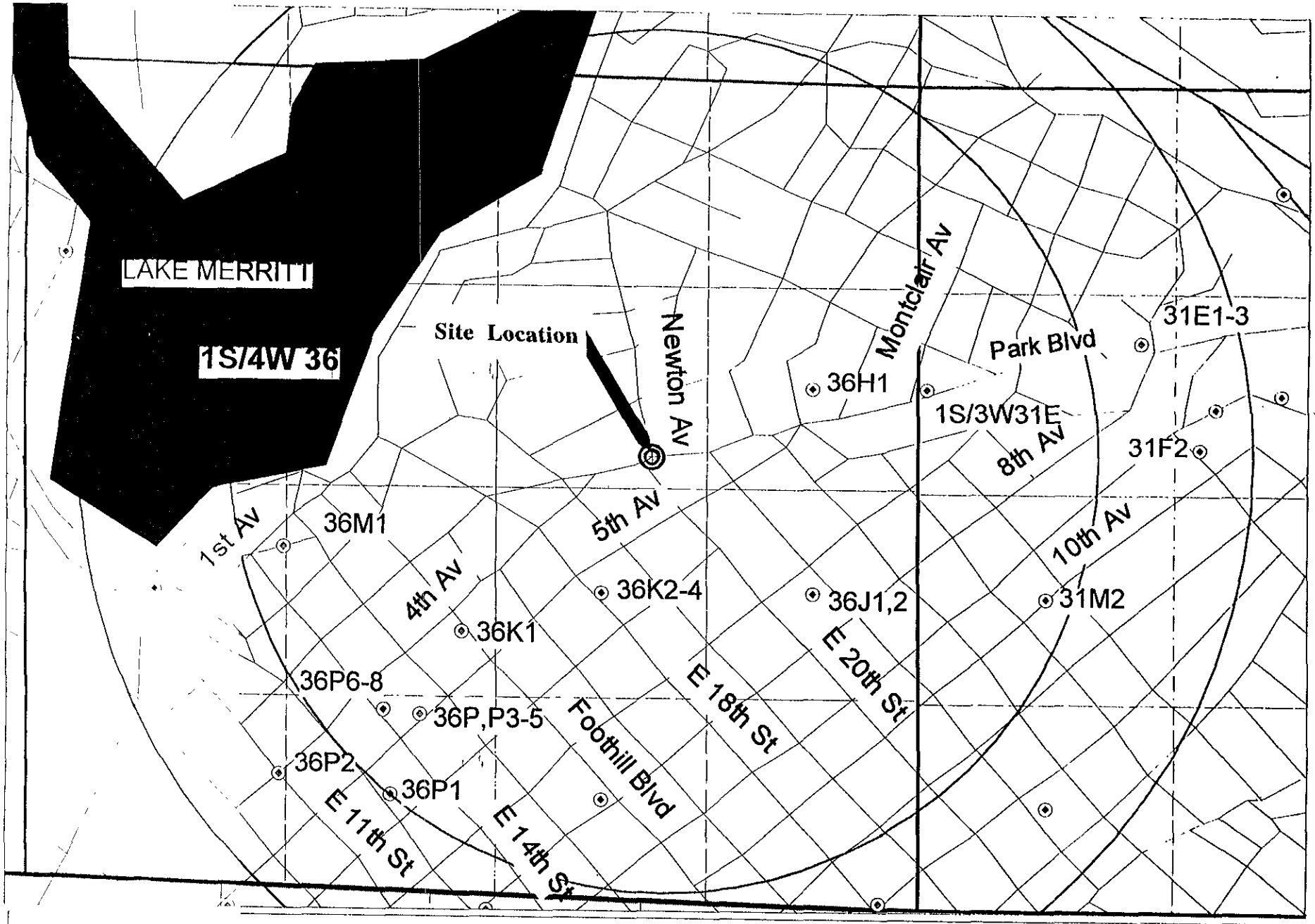
BENZENE CONCENTRATION MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
95267

Drawn By JWN | Date: 6-21-95 | Approved By: Jan | Date: 8-Aug-95

Appendix A

Well Survey Information



.5 mile radius from Park Blvd. & Newton Ave.
02/27/1995

WELL NUMBER	ADDRESS	CITY	OWNER	DRILLDATE	ELEVATION	DEPTH	DTW	DIAM	USE	YIELD	DTWCALC
1S/4W 36P 3	1445 5th Ave.	OAK	Eastlake Associates	10/90	0	9	4	2	MON	0	0
1S/4W 36P 4	1445 5th Ave.	OAK	Eastlake Associates	12/90	0	30	12	2	MON	0	0
1S/4W 36P 5	1445 5th Ave.	OAK	Eastlake Associates	12/90	0	24	12	2	MON	0	0
1S/4W 36P	1445 5th Ave.	OAK	Eastlake Associates	10/90	998	52	35	8	BOR*	0	953
1S/4W 36K 2	Wayne Street/Park Blvd	OAK	Yuen's Automotive	05/90	0	22	4	2	TES	0	0
1S/4W 36K 4	Wayne Street/Park Blvd	OAK	Yuen's Automotive	05/90	0	20	4	2	TES	0	0
1S/4W 36K 3	Wayne Street/Park Blvd	OAK	Yuen's Automotive	05/90	0	20	4	2	TES	0	0
1S/3W 31M 2	22 ST	OAK	PG&E	12/75	0	120	0	0	CAT	0	0
1S/4W 36J 1	E 19 & 7 AV	OAK	PACIFIC GAS AND ELECTRIC	12/73	0	120	38	0	CAT	0	0
1S/4W 36M 1	FIRST & 11 ST	OAK	PG&E	12/76	0	120	0	0	CAT	0	0
1S/4W 36P 1	E 11 & 5 AV	OAK	PACIFIC GAS AND ELECTRIC	4/74	0	120	0	0	CAT	0	0
1S/4W 36P 6	450 East 14th St.	OAK	Perry Pahlmeyer MW-1	8/92	0	20	13	2	TES	0	0
1S/4W 36P 7	450 East 14th St.	OAK	Perry Pahlmeyer MW-2	8/92	0	20	13	2	TES	0	0
1S/4W 36P 8	450 East 14th St.	OAK	Perry Pahlmeyer MW-3	8/92	0	22	12	2	TES	0	0
1S/4W 36J 2	E 21 & 9 AV	OAK	PACIFIC GAS AND ELECTRIC	8/76	0	120	0	0	CAT	0	0
1S/4W 36K 1	425 FOOTHILL BLVD	OAK	CENTRAL FRENCH LDY	/14	0	214	0	14	IRR	35	0
1S/4W 36Q 1	E 10 & 4 AV	OAK	PACIFIC GAS AND ELECTRIC	9/74	0	120	0	0	CAT	0	0
1S/4W 36Q 2	HARVARD CIR	CSV	PACIFIC GAS AND ELECTRIC	3/76	0	120	0	0	CAT	0	0
1S/3W 31E	2419 PARK BLVD	OAK	WILLIAM WONG	07/86	41	22	11	0	BOR	0	30
1S/4W 36H 1	BROOKLYN & HADDON	OAK	PACIFIC GAS AND ELECTRIC	6/76	0	120	0	0	CAT	0	0
1S/4W 36M 2	6TH & CLAY	OAK	NEW COURTHOUSE SITE	11/75	0	0	0	0	GEO*	0	0
1S/4W 36M 3	6 & CLAY ST	OAK	TERRARESEARCH INC.	5/75	0	0	0	0	GEO*	0	0
1S/3W 31N 1	2049 10 AV	OAK	EUGENE H. PECK	11/77	0	160	55	0	DOM	8	0

WELL INVENTORY FILE

Definitions and abbreviations for items listed in the well inventory file are as follows:

[**WELLNO**] Well number - Wells are numbered according to their location in the rectangular system of the Public Land Survey. The part of the number preceding the slash indicates the township; the part following the slash indicates the range and section number; the letter following the section number indicates the 40-acre subdivision; and the final digit is a serial number for wells in each 40-acre subdivision.

[**DAT**] Date - The month and year when drilling or boring was completed.

[**ELEV**] Surface elevation - The surface elevation of the well, if known, in feet above mean sea level. A zero designates an unknown elevation.

[**TD**] Total depth - The depth of the well. This usually designates the completed well depth. If the well has a well log available on file, then the total drilled depth of the well is given. The inventory does not show total depth data for geotechnical borings. This is because only one state well number is assigned to one boring at a site, and there are usually several borings of different depth.

[**DTW**] Depth to water - This category usually indicates the standing groundwater level in the well on the date of completion. The "depth to first water encountered" is recorded in the inventory when it is the only water level data reported on the well driller's report.

[**USE**] Use - The well use (or in the case of cathodic protection wells and geotechnical borings, the reason for the excavation) as indicated in the well driller's report or data sheets. A plus sign (+) after the well use indicates a well in the current ACFC & WCD monitoring network.

[**ABN**] Abandoned well - A well whose use has been permanently discontinued or which is in such a state of disrepair that no water can be produced. In the inventory, this may include wells which are covered or capped but not properly destroyed.

[DES] Destroyed well - A well that has been properly filled so that it cannot produce water nor act as a vertical conduit for the movement of groundwater.

[DOM] Domestic well - A water well which is used to supply water for the domestic needs of an individual residence or systems of four or less service connections or "hookups".

[INA] Inactive well - A well not routinely operating but capable of being made operable with a minimum of effort. Also called a "standby well".

[IND] Industrial well - A water well used to supply industry on an individual basis.

[IRR] Irrigation well - A water well used to supply water only for irrigation or other agricultural purposes. In the inventory, this category includes large capacity wells as well as small capacity wells for lawn irrigation.

[MON] Monitoring or observation well - Wells constructed for the purpose of observing or monitoring groundwater conditions. (see piezometer).

[MUN] Municipal well - A water well used to supply water for domestic purposes in systems subject to Chapter 7, Part 1,
Division 5 of the California Health and Safety Code. Included are wells supplying public water systems classified by the Department of Health Services. (Also referred to as community water supply wells).

[PIE] Piezometer - A piezometer is a well specifically designated to measure the hydraulic head within a zone small enough to be considered a point as contrasted with a well that reflects the average head of the aquifer for the screened interval.

[STO] Stock - A water well used primarily for livestock.

[TES] Test well and test hole - A test well is constructed for the purpose of obtaining the information needed to design a well prior to its construction. Such wells are not to be confused with "test holes" which are temporary in nature (i.e., uncased excavations whose purpose is the immediate determination of existing geologic and hydrologic conditions). Test wells are cased and can be converted to observation or monitoring wells, and under certain circumstances, to production wells. In the inventory, "TES" includes both test wells and test holes.

[?] Unidentified use - This indicates water wells whose use could not be ascertained from the available well data.

[CAT] Cathodic protection well - Any artificial excavation constructed by any method for the purpose of installing equipment or facilities for the protection from

corrosion by electrochemical methods of metallic equipment (usually piping) in contact with the ground; commonly referred to as cathodic protection.

[**GEO**] Geotechnical boring - A temporary boring made to determine certain engineering properties of soils. An asterisk (*) indicates that the state well number assigned to the boring represents more than one boring at a particular site.

[**LOG**] Log - This category indicates whether a geologic record, or log, for the well or boring is available in the Agency's files. Abbreviations are as follows:

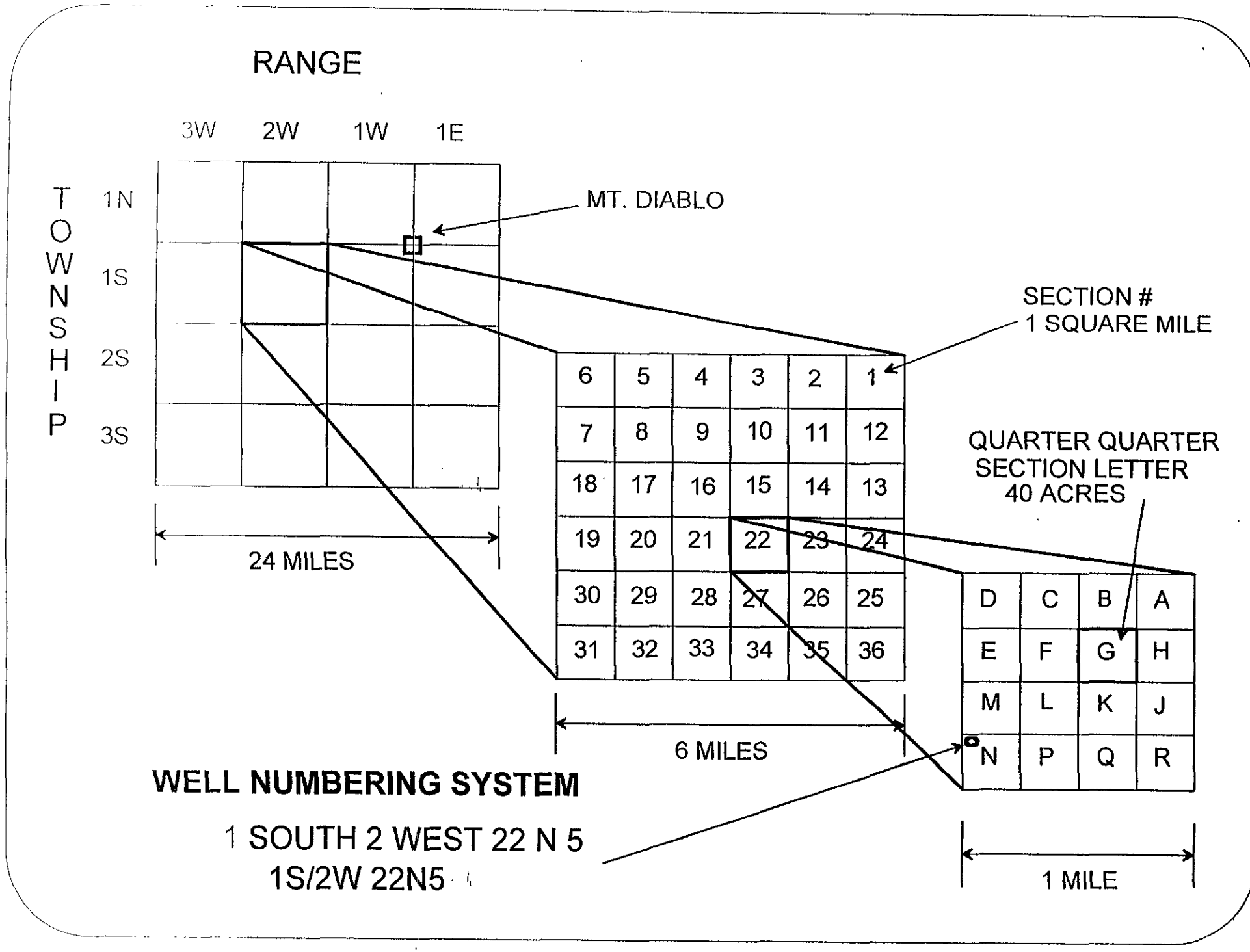
D - well driller's log
G - geotechnical boring log
E - electric (resistivity) log or other subsurface geophysical logs.

[**WQ**] Water quality data available - This category indicates which wells have water quality data available in ACFC & WCD files. The numbers 1 through 9 signify the number of sets of water quality measurements available for that well. A plus sign (+) indicates that 10 or more sets of data are available. A "0" indicates that no data is available.

[**WL**] Water level data available - This category indicates which wells have water level data other than the data reported on the well driller's logs. The numbers 1 through 9 signify the number of water level measurements available. A plus sign (+) indicates that 10 or more measurements are available for that well.
A "0" indicates that no data is available.

[**YLD**] Yield - The maximum pumping rate in gallons per minute that can be supplied by a well without lowering the water level in the well below the pump intake. This data is taken from pump test data recorded in the driller's records. Some of the yield data reflects current production rates and does not reflect maximum yield values determined in a capacity test.

[**DIA**] Diameter - The diameter in inches of the main casing in a well. May also indicate the diameter of a hand-dug well. Diameter data is not recorded for geotechnical borings


RANGE
3W
2W
1W
1E
TOWNSHIP
1N
1S
2S
3S
MT. DIABLO
SECTION #
1 SQUARE MILE
6 5 4 3 2 1
7 8 9 10 11 12
18 17 16 15 14 13
19 20 21 22 23 24
30 29 28 27 26 25
31 32 33 34 35 36
QUARTER QUARTER
SECTION LETTER
40 ACRES
D C B A
E F G H
M L K J
N P Q R
24 MILES
6 MILES
1 MILE
WELL NUMBERING SYSTEM
1 SOUTH 2 WEST 22 N 5
1S/2W 22N5

Appendix B

Exploratory Boring Log

Field Exploratory Boring Log S-B

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

BORING
S-B

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

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

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95267

Field Exploratory Boring Log S-C

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
		S-C-6		5		Concrete and base rock Clayey Sand (SC - Fill) Dark yellowish brown (10YR 4/4), 55-65% fine to coarse sand, 20-25% clay, 10-15% silt. Total Depth of Boring = 7 feet (OVM data not available - OVM malfunction)

BORING
S-C

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

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

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Field Exploratory Boring Log S-D

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

BORING
S-D

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

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

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Field Exploratory Boring Log S-F

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

BORING
S-F

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

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

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Field Exploratory Boring Log S-G

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

BORING
S-G

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

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

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95267

Field Exploratory Boring Log S-H

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
		S-H-6.5		5		Concrete and base rock Clay (CL) Olive gray (5Y 4/2), moist, 75-85% clay, 10-20% fine sand, 0-5% fine gravel. @ 3': As above, dark olive gray (5Y 4/1), dry to moist.
				10		Total Depth of Boring = 7 feet (OVM data not available - OVM malfunction)
				15		
				20		
				25		
				30		

BORING
S-H

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

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

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Field Exploratory Boring Log S-I

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

BORING
S-I

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

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

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Field Exploratory Boring Log S-J

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
		S-J-4		5		Concrete and base rock Clay (CL) Olive gray (5Y 4/2), moist, low to moderate plasticity, 80-90% clay,10-15% silt. 0-5% fine sand. @ 3': As above, very moist at 4'. Total Depth of Boring = 7 feet (OVM data not available - OVM malfunction)

BORING
S-J

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

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

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Field Exploratory Boring Log S-L

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

BORING
S-L

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

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

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Field Exploratory Boring Log S-1

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

BORING
S-1

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

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

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Field Exploratory Boring Log S-2

OVM PPM	Blows/ 6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
429	3 5 7	S-2-5	5		Clayey Sand (SC) Very dark grayish brown (2.5Y 3/2), moist, low to moderate plasticity, 55-65% fine sand, 20-30% clay, 5-10% silt. Clay (CL) Very dark gray (5Y 3/1), low to moderate plasticity, moist, stiff, 65-75% clay, 10-15% fine sand.
933	9 18 26	S-2-10	10		@ 9': As above, moist, hard.
16	3 6 12	S-2-15	15		Silt (ML) Olive (5Y 5/3), moist, very stiff, low plasticity, 80% silt, 20% fine sand, faint and sparse iron staining noted.
24.5	5 6 12	S-2-17.5	20		@ 16.5': As above, moist, very stiff.
			25		Total Depth of Boring = 18 feet
			30		

Wellbox & Cement 0 to 1 ft

Bentonite 1 to 2 ft.

2 in Sch .40 PVC

Lonestar #2/12 Sand

2-in. Sch. 40 PVC - 0.02-in. Slot 3 to 18 ft.

BORING	SHELL OIL COMPANY		
S-2	Former Shell Service Station 2101 Park Boulevard Oakland, California	Borehole Diameter: 8 inches Logged by: J. Neely Driller: Gregg Drilling Date Started: 15-Jun-95 Date Completed: 15-Jun-95	*enviros*® 95267

Field Exploratory Boring Log S-3

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
			Wellbox & Cement 0 to 1 ft.			6" concrete
			Bentonite 1 to 2 ft.			
			2-in Sch 40 PVC			
	11					Sand (SP)
	17					Grayish brown (2.5Y 5/2). moist, loose, 90-95% fine to medium
1942	15	S-3-5.5		5		sand, 5-10% silt.
						Clay (CL)
						Dark olive gray (5Y 3/2). moist, moderate plasticity, 75-85% clay, 5-10% silt, 5-10% fine sand.
	6					
	8					@ 9': As above, moist, very stiff.
1246	12	S-3-10.5		10		
	20					Sand (SP)
	21					Dark olive gray (5Y 3/2). wet, dense, 90-95% fine to coarse
30	25	S-3-15.5		15		sand, 5-10% silt.
	18					
	23					@ 16.5': As above, wet, very dense.
12	48	S-3-17.5				
				20		
						Total Depth of Boring = 18 feet
				25		
				30		

Lonestar #2/12 Sand

2-in. Sch. 40 PVC - 0.02-in. Slot 3 to 18 ft.

BORING			
S-3	SHELL OIL COMPANY Former Shell Service Station 2101 Park Boulevard Oakland, California	Borehole Diameter: 8 inches Logged by: J. Neely Driller: Gregg Drilling Date Started: 15-Jun-95 Date Completed: 15-Jun-95	enviros® 95267

Appendix C

Soil Laboratory Analytical Reports

&
Chain-of-Custody Records

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Joe Neely
Enviros
PO Box 259
270 Perkins
Sonoma, CA 95476-0259

RECEIVED
JUN 05 1995

Date: 06/02/1995
NET Client Acct. No: 1826
NET Job No: 95.01985
Received: 05/17/1995

Client Reference Information

Shell 2101 Park Blvd., Oakland, CA.

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:

Ken Larson
Division Manager

Jennifer L. Roseberry
Project Manager

Enclosure(s)

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SB-3
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242129

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/19/1995	1718
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/19/1995	1718
Carbon Range: C6 to C12	--						05/19/1995	1718
METHOD 8020 (GC, Solid)	--						05/19/1995	1718
Benzene	0.0031	C	0.0025	mg/kg	8020		05/19/1995	1718
Toluene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Ethylbenzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Xylenes (Total)	0.0025	C	0.0025	mg/kg	8020		05/19/1995	1718
SURROGATE RESULTS	--						05/19/1995	1718
Bromofluorobenzene (SURR)	78			% Rec.	8020		05/19/1995	1718

C Positive result confirmed by secondary column or GC/MS analysis

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SC-6
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242130

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/19/1995	1718
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/19/1995	1718
Carbon Range: C6 to C12	--						05/19/1995	1718
METHOD 8020 (GC, Solid)	--						05/19/1995	1718
Benzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Toluene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Ethylbenzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Xylenes (Total)	ND		0.0025	mg/kg	8020		05/19/1995	1718
SURROGATE RESULTS	--						05/19/1995	1718
Bromofluorobenzene (SURR)	78			% Rec.	8020		05/19/1995	1718

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SD-6
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242131

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/23/1995	1721
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/23/1995	1721
Carbon Range: C6 to C12	--						05/23/1995	1721
METHOD 8020 (GC, Solid)	--						05/23/1995	1721
Benzene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Toluene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Ethylbenzene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Xylenes (Total)	ND		0.0025	mg/kg	8020		05/23/1995	1721
SURROGATE RESULTS	--						05/23/1995	1721
Bromofluorobenzene (SURR)	91			% Rec.	8020		05/23/1995	1721

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SP-5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242132

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/19/1995	1718
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/19/1995	1718
Carbon Range: C6 to C12	--						05/19/1995	1718
METHOD 8020 (GC, Solid)	--						05/19/1995	1718
Benzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Toluene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Ethylbenzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Xylenes (Total)	0.0076	C	0.0025	mg/kg	8020		05/19/1995	1718
SURROGATE RESULTS	--						05/19/1995	1718
Bromofluorobenzene (SURR)	78			% Rec.	8020		05/19/1995	1718

C Positive result confirmed by secondary column or GC/MS analysis

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SG-5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242133

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/23/1995	1721
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/23/1995	1721
Carbon Range: C6 to C12	--						05/23/1995	1721
METHOD 8020 (GC, Solid)	--						05/23/1995	1721
Benzene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Toluene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Ethylbenzene	ND		0.0025	mg/kg	8020		05/23/1995	1721
Xylenes (Total)	ND		0.0025	mg/kg	8020		05/23/1995	1721
SURROGATE RESULTS	--						05/23/1995	1721
Bromofluorobenzene (SURR)	73			% Rec.	8020		05/23/1995	1721

Client Name: Enviros
Client Acct: 1826
NET Job No: 95.01985

Date: 06/02/1995
ELAP Cert: 1386
Page: 7

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SH-6.5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242134

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						05/23/1995	1721
Purgeable TPH	410		100	mg/kg	5030/M8015		05/23/1995	1721
Carbon Range: C6 to C12	--						05/23/1995	1721
METHOD 8020 (GC, Solid)	--						05/23/1995	1721
Benzene	0.42		0.25	mg/kg	8020		05/23/1995	1721
Toluene	0.66		0.25	mg/kg	8020		05/23/1995	1721
Ethylbenzene	10		0.25	mg/kg	8020		05/23/1995	1721
Xylenes (Total)	56		0.25	mg/kg	8020		05/23/1995	1721
SURROGATE RESULTS	--						05/23/1995	1721
Bromofluorobenzene (SURR)	108			% Rec.	8020		05/23/1995	1721

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SI-3.5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242135

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						05/23/1995	1721
Purgeable TPH	170		100	mg/kg	5030/M8015		05/23/1995	1721
Carbon Range: C6 to C12	--						05/23/1995	1721
METHOD 8020 (GC, Solid)	--						05/23/1995	1721
Benzene	0.74		0.25	mg/kg	8020		05/23/1995	1721
Toluene	5.7		0.25	mg/kg	8020		05/23/1995	1721
Ethylbenzene	4.5		0.25	mg/kg	8020		05/23/1995	1721
Xylenes (Total)	26		0.25	mg/kg	8020		05/23/1995	1721
SURROGATE RESULTS	--						05/23/1995	1721
Bromofluorobenzene (SURR)	107			% Rec.	8020		05/23/1995	1721

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SJ-4
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242136

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						05/23/1995	1721
Purgeable TPH	380		100	mg/kg	5030/M8015		05/23/1995	1721
Carbon Range: C6 to C12	--						05/23/1995	1721
METHOD 8020 (GC, Solid)	--						05/23/1995	1721
Benzene	0.78		0.25	mg/kg	8020		05/23/1995	1721
Toluene	0.68		0.25	mg/kg	8020		05/23/1995	1721
Ethylbenzene	5.1		0.25	mg/kg	8020		05/23/1995	1721
Xylenes (Total)	23		0.25	mg/kg	8020		05/23/1995	1721
SURROGATE RESULTS	--						05/23/1995	1721
Bromofluorobenzene (SURR)	127	MI		% Rec.	8020		05/23/1995	1721

MI Matrix interference suspected

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SL-5.5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242137

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/19/1995	1718
Purgeable TPH	ND		1	mg/kg	5030/M8015		05/19/1995	1718
Carbon Range: C6 to C12	--						05/19/1995	1718
METHOD 8020 (GC, Solid)	--						05/19/1995	1718
Benzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Toluene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Ethylbenzene	ND		0.0025	mg/kg	8020		05/19/1995	1718
Xylenes (Total)	ND		0.0025	mg/kg	8020		05/19/1995	1718
SURROGATE RESULTS	--						05/19/1995	1718
Bromofluorobenzene (SURR)	81			% Rec.	8020		05/19/1995	1718

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SL-5.5
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242137

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Solid)								
DILUTION FACTOR*	1						05/18/1995	621
Bromodichloromethane	ND		0.002	mg/kg	8010		05/18/1995	621
Bromoform	ND		0.002	mg/kg	8010		05/18/1995	621
Bromomethane	ND		0.002	mg/kg	8010		05/18/1995	621
Carbon tetrachloride	ND		0.002	mg/kg	8010		05/18/1995	621
Chlorobenzene	ND		0.002	mg/kg	8010		05/18/1995	621
Chloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		05/18/1995	621
Chloroform	ND		0.002	mg/kg	8010		05/18/1995	621
Chloromethane	ND		0.002	mg/kg	8010		05/18/1995	621
Dibromochloromethane	ND		0.002	mg/kg	8010		05/18/1995	621
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		05/18/1995	621
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		05/18/1995	621
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		05/18/1995	621
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		05/18/1995	621
1,1-Dichloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
1,2-Dichloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
1,1-Dichloroethene	ND		0.002	mg/kg	8010		05/18/1995	621
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		05/18/1995	621
1,2-Dichloropropane	ND		0.002	mg/kg	8010		05/18/1995	621
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		05/18/1995	621
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		05/18/1995	621
Methylene chloride	ND		0.05	mg/kg	8010		05/18/1995	621
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
Tetrachloroethene	ND		0.002	mg/kg	8010		05/18/1995	621
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		05/18/1995	621
Trichloroethene	ND		0.002	mg/kg	8010		05/18/1995	621
Trichlorofluoromethane	ND		0.002	mg/kg	8010		05/18/1995	621
Vinyl chloride	ND		0.002	mg/kg	8010		05/18/1995	621
SURROGATE RESULTS	--						05/18/1995	621
1,4-Difluorobenzene (SURR)	90			% Rec.			05/18/1995	621
1,4-Dichlorobutane (SURR)	87			% Rec.			05/18/1995	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SL
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242138

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/23/1995	2854
Purgeable TPH	ND		0.05	mg/L	5030/M8015		05/23/1995	2854
Carbon Range: C6 to C12	--						05/23/1995	2854
METHOD 8020 (GC, Liquid)	--						05/23/1995	2854
Benzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Toluene	ND		0.0005	mg/L	8020		05/23/1995	2854
Ethylbenzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Xylenes (Total)	ND		0.0005	mg/L	8020		05/23/1995	2854
SURROGATE RESULTS	--						05/23/1995	2854
Bromofluorobenzene (SURR)	85			% Rec.	8020		05/23/1995	2854

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SL
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242138

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						05/23/1995	842
Bromodichloromethane	ND		0.0004	mg/L	8010		05/23/1995	842
Bromoform	ND		0.0004	mg/L	8010		05/23/1995	842
Bromomethane	ND		0.0004	mg/L	8010		05/23/1995	842
Carbon tetrachloride	ND		0.0004	mg/L	8010		05/23/1995	842
Chlorobenzene	ND		0.0004	mg/L	8010		05/23/1995	842
Chloroethane	ND		0.0004	mg/L	8010		05/23/1995	842
2-Chloroethylvinyl ether	ND		0.001	mg/L	8010		05/23/1995	842
Chloroform	ND		0.0004	mg/L	8010		05/23/1995	842
Chloromethane	ND		0.0004	mg/L	8010		05/23/1995	842
Dibromochloromethane	ND		0.0004	mg/L	8010		05/23/1995	842
1,2-Dichlorobenzene	ND		0.0004	mg/L	8010		05/23/1995	842
1,3-Dichlorobenzene	ND		0.0004	mg/L	8010		05/23/1995	842
1,4-Dichlorobenzene	ND		0.0004	mg/L	8010		05/23/1995	842
Dichlorodifluoromethane	ND		0.0004	mg/L	8010		05/23/1995	842
1,1-Dichloroethane	ND		0.0004	mg/L	8010		05/23/1995	842
1,2-Dichloroethane	ND		0.0004	mg/L	8010		05/23/1995	842
1,1-Dichloroethene	ND		0.0004	mg/L	8010		05/23/1995	842
trans-1,2-Dichloroethene	ND		0.0004	mg/L	8010		05/23/1995	842
1,2-Dichloropropane	ND		0.0004	mg/L	8010		05/23/1995	842
cis-1,3-Dichloropropene	ND		0.0004	mg/L	8010		05/23/1995	842
trans-1,3-Dichloropropene	ND		0.0004	mg/L	8010		05/23/1995	842
Methylene chloride	ND		0.01	mg/L	8010		05/23/1995	842
1,1,2,2-Tetrachloroethane	ND		0.0004	mg/L	8010		05/23/1995	842
Tetrachloroethene	ND		0.0004	mg/L	8010		05/23/1995	842
1,1,1-Trichloroethane	ND		0.0004	mg/L	8010		05/23/1995	842
1,1,2-Trichloroethane	ND		0.001	mg/L	8010		05/23/1995	842
Trichloroethene	ND		0.0004	mg/L	8010		05/23/1995	842
Trichlorofluoromethane	ND		0.0004	mg/L	8010		05/23/1995	842
Vinyl chloride	ND		0.0004	mg/L	8010		05/23/1995	842
SURROGATE RESULTS	--						05/23/1995	842
1,4-Difluorobenzene (SURR)	94			% Rec.			05/23/1995	842
1,4-Dichlorobutane (SURR)	100			% Rec.			05/23/1995	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: SD
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242139

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/23/1995	2854
Purgeable TPH	ND		0.05	mg/L	5030/M8015		05/23/1995	2854
Carbon Range: C6 to C12	--						05/23/1995	2854
METHOD 8020 (GC, Liquid)	--						05/23/1995	2854
Benzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Toluene	ND		0.0005	mg/L	8020		05/23/1995	2854
Ethylbenzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Xylenes (Total)	ND		0.0005	mg/L	8020		05/23/1995	2854
SURROGATE RESULTS	--						05/23/1995	2854
Bromofluorobenzene (SURR)	79			% Rec.	8020		05/23/1995	2854

Ref: Shell 2101 Park Blvd., Oakland, CA.

SAMPLE DESCRIPTION: Trip Blank
Date Taken: 05/16/1995
Time Taken:
NET Sample No: 242140

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						05/23/1995	2854
Purgeable TPH	ND		0.05	mg/L	5030/M8015		05/23/1995	2854
Carbon Range: C6 to C12	--						05/23/1995	2854
METHOD 8020 (GC, Liquid)	--						05/23/1995	2854
Benzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Toluene	ND		0.0005	mg/L	8020		05/23/1995	2854
Ethylbenzene	ND		0.0005	mg/L	8020		05/23/1995	2854
Xylenes (Total)	ND		0.0005	mg/L	8020		05/23/1995	2854
SURROGATE RESULTS	--						05/23/1995	2854
Bromofluorobenzene (SURR)	86			% Rec.	8020		05/23/1995	2854

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 5030/8015-M (Shell)							
Purgeable TPH	112.0	0.56	0.50	mg/L	05/23/1995	caf	2854
Benzene	88.4	4.42	5.00	ug/L	05/23/1995	caf	2854
Toluene	88.6	4.43	5.00	ug/L	05/23/1995	caf	2854
Ethylbenzene	87.6	4.38	5.00	ug/L	05/23/1995	caf	2854
Xylenes (Total)	88.0	13.2	15.0	ug/L	05/23/1995	caf	2854
Bromofluorobenzene (SURR)	111.0	111	100	% Rec.	05/23/1995	caf	2854
METHOD 5030/8015-M (Shell)							
Purgeable TPH	105.6	5.28	5.00	mg/kg	05/19/1995	aal	1718
Benzene	106.4	26.6	25.0	ug/kg	05/19/1995	aal	1718
Toluene	98.0	24.5	25.0	ug/kg	05/19/1995	aal	1718
Ethylbenzene	98.4	24.6	25.0	ug/kg	05/19/1995	aal	1718
Xylenes (Total)	96.8	72.6	75.0	ug/kg	05/19/1995	aal	1718
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	05/19/1995	aal	1718
METHOD 5030/8015-M (Shell)							
Purgeable TPH	104.0	5.20	5.00	mg/kg	05/23/1995	aal	1721
Benzene	99.6	24.9	25.0	ug/kg	05/23/1995	aal	1721
Toluene	99.2	24.8	25.0	ug/kg	05/23/1995	aal	1721
Ethylbenzene	94.4	23.6	25.0	ug/kg	05/23/1995	aal	1721
Xylenes (Total)	93.7	70.3	75.0	ug/kg	05/23/1995	aal	1721
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	05/23/1995	aal	1721

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	97.0	19.4	20.0	ug/L	05/20/1995	gec	842
Bromoform	98.0	19.6	20.0	ug/L	05/20/1995	gec	842
Bromomethane	97.0	19.4	20.0	ug/L	05/20/1995	gec	842
Carbon tetrachloride	97.0	19.4	20.0	ug/L	05/20/1995	gec	842
Chlorobenzene	96.5	19.3	20.0	ug/L	05/20/1995	gec	842
Chloroethane	92.0	18.4	20.0	ug/L	05/20/1995	gec	842
2-Chloroethylvinyl ether	125.0	25.0	20.0	ug/L	05/20/1995	gec	842
Chloroform	95.0	19.0	20.0	ug/L	05/20/1995	gec	842
Chloromethane	89.5	17.9	20.0	ug/L	05/20/1995	gec	842
Dibromochloromethane	95.5	19.1	20.0	ug/L	05/20/1995	gec	842
1,2-Dichlorobenzene	94.0	18.8	20.0	ug/L	05/20/1995	gec	842
1,3-Dichlorobenzene	97.0	19.4	20.0	ug/L	05/20/1995	gec	842
1,4-Dichlorobenzene	93.5	18.7	20.0	ug/L	05/20/1995	gec	842
Dichlorodifluoromethane	96.0	19.2	20.0	ug/L	05/20/1995	gec	842
1,1-Dichloroethane	94.5	18.9	20.0	ug/L	05/20/1995	gec	842
1,2-Dichloroethane	93.5	18.7	20.0	ug/L	05/20/1995	gec	842
1,1-Dichloroethene	93.5	18.7	20.0	ug/L	05/20/1995	gec	842
trans-1,2-Dichloroethene	94.5	18.9	20.0	ug/L	05/20/1995	gec	842
1,2-Dichloropropane	95.5	19.1	20.0	ug/L	05/20/1995	gec	842
cis-1,3-Dichloropropene	97.5	19.5	20.0	ug/L	05/20/1995	gec	842
trans-1,3-Dichloropropene	100.0	20.0	20.0	ug/L	05/20/1995	gec	842
Methylene chloride	90.0	18.0	20.0	ug/L	05/20/1995	gec	842
1,1,2,2-Tetrachloroethane	92.5	18.5	20.0	ug/L	05/20/1995	gec	842
Tetrachloroethene	96.5	19.3	20.0	ug/L	05/20/1995	gec	842
1,1,1-Trichloroethane	96.5	19.3	20.0	ug/L	05/20/1995	gec	842
1,1,2-Trichloroethane	95.0	19.0	20.0	ug/L	05/20/1995	gec	842
Trichloroethene	97.5	19.5	20.0	ug/L	05/20/1995	gec	842
Trichlorofluoromethane	92.5	18.5	20.0	ug/L	05/20/1995	gec	842
Vinyl chloride	90.5	18.1	20.0	ug/L	05/20/1995	gec	842
1,4-Difluorobenzene (SURR)	107.0	107	100	% Rec.	05/20/1995	gec	842
1,4-Dichlorobutane (SURR)	107.0	107	100	% Rec.	05/20/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	101.0	20.2	20.0	ug/L	05/22/1995	gec	842
Bromoform	94.5	18.9	20.0	ug/L	05/22/1995	gec	842
Bromomethane	98.0	19.6	20.0	ug/L	05/22/1995	gec	842
Carbon tetrachloride	105.0	21.0	20.0	ug/L	05/22/1995	gec	842
Chlorobenzene	104.0	20.8	20.0	ug/L	05/22/1995	gec	842
Chloroethane	92.0	18.4	20.0	ug/L	05/22/1995	gec	842
2-Chloroethylvinyl ether	87.0	17.4	20.0	ug/L	05/22/1995	gec	842
Chloroform	101.5	20.3	20.0	ug/L	05/22/1995	gec	842
Chloromethane	102.5	20.5	20.0	ug/L	05/22/1995	gec	842
Dibromochloromethane	99.0	19.8	20.0	ug/L	05/22/1995	gec	842
1,2-Dichlorobenzene	98.0	19.6	20.0	ug/L	05/22/1995	gec	842
1,3-Dichlorobenzene	100.5	20.1	20.0	ug/L	05/22/1995	gec	842
1,4-Dichlorobenzene	94.5	18.9	20.0	ug/L	05/22/1995	gec	842
Dichlorodifluoromethane	90.5	18.1	20.0	ug/L	05/22/1995	gec	842
1,1-Dichloroethane	99.0	19.8	20.0	ug/L	05/22/1995	gec	842
1,2-Dichloroethane	99.0	19.8	20.0	ug/L	05/22/1995	gec	842
1,1-Dichloroethene	95.5	19.1	20.0	ug/L	05/22/1995	gec	842
trans-1,2-Dichloroethene	99.5	19.9	20.0	ug/L	05/22/1995	gec	842
1,2-Dichloropropane	100.5	20.1	20.0	ug/L	05/22/1995	gec	842
cis-1,3-Dichloropropene	100.0	20.0	20.0	ug/L	05/22/1995	gec	842
trans-1,3-Dichloropropene	101.5	20.3	20.0	ug/L	05/22/1995	gec	842
Methylene chloride	95.0	19.0	20.0	ug/L	05/22/1995	gec	842
1,1,2,2-Tetrachloroethane	90.0	18.0	20.0	ug/L	05/22/1995	gec	842
Tetrachloroethene	103.0	20.6	20.0	ug/L	05/22/1995	gec	842
1,1,1-Trichloroethane	104.0	20.8	20.0	ug/L	05/22/1995	gec	842
1,1,2-Trichloroethane	98.0	19.6	20.0	ug/L	05/22/1995	gec	842
Trichloroethene	104.0	20.8	20.0	ug/L	05/22/1995	gec	842
Trichlorofluoromethane	94.5	18.9	20.0	ug/L	05/22/1995	gec	842
Vinyl chloride	86.5	17.3	20.0	ug/L	05/22/1995	gec	842
1,4-Difluorobenzene (SURR)	99.0	99	100	% Rec.	05/22/1995	gec	842
1,4-Dichlorobutane (SURR)	97.0	97	100	% Rec.	05/22/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	97.0	19.4	20.0	ug/L	05/23/1995	gec	842
Bromoform	98.0	19.6	20.0	ug/L	05/23/1995	gec	842
Bromomethane	91.0	18.2	20.0	ug/L	05/23/1995	gec	842
Carbon tetrachloride	96.5	19.3	20.0	ug/L	05/23/1995	gec	842
Chlorobenzene	96.0	19.2	20.0	ug/L	05/23/1995	gec	842
Chloroethane	88.0	17.6	20.0	ug/L	05/23/1995	gec	842
2-Chloroethylvinyl ether	112.0	22.4	20.0	ug/L	05/23/1995	gec	842
Chloroform	95.5	19.1	20.0	ug/L	05/23/1995	gec	842
Chloromethane	85.0	17.0	20.0	ug/L	05/23/1995	gec	842
Dibromochloromethane	95.5	19.1	20.0	ug/L	05/23/1995	gec	842
1,2-Dichlorobenzene	93.0	18.6	20.0	ug/L	05/23/1995	gec	842
1,3-Dichlorobenzene	95.0	19.0	20.0	ug/L	05/23/1995	gec	842
1,4-Dichlorobenzene	93.0	18.6	20.0	ug/L	05/23/1995	gec	842
Dichlorodifluoromethane	81.0	16.2	20.0	ug/L	05/23/1995	gec	842
1,1-Dichloroethane	91.5	18.3	20.0	ug/L	05/23/1995	gec	842
1,2-Dichloroethane	95.0	19.0	20.0	ug/L	05/23/1995	gec	842
1,1-Dichloroethene	85.0	17.0	20.0	ug/L	05/23/1995	gec	842
trans-1,2-Dichloroethene	91.5	18.3	20.0	ug/L	05/23/1995	gec	842
1,2-Dichloropropane	94.5	18.9	20.0	ug/L	05/23/1995	gec	842
cis-1,3-Dichloropropene	99.5	19.9	20.0	ug/L	05/23/1995	gec	842
trans-1,3-Dichloropropene	98.0	19.6	20.0	ug/L	05/23/1995	gec	842
Methylene chloride	89.0	17.8	20.0	ug/L	05/23/1995	gec	842
1,1,2,2-Tetrachloroethane	90.0	18.0	20.0	ug/L	05/23/1995	gec	842
Tetrachloroethene	95.0	19.0	20.0	ug/L	05/23/1995	gec	842
1,1,1-Trichloroethane	96.0	19.2	20.0	ug/L	05/23/1995	gec	842
1,1,2-Trichloroethane	95.0	19.0	20.0	ug/L	05/23/1995	gec	842
Trichloroethene	98.0	19.6	20.0	ug/L	05/23/1995	gec	842
Trichlorofluoromethane	89.0	17.8	20.0	ug/L	05/23/1995	gec	842
Vinyl chloride	82.0	16.4	20.0	ug/L	05/23/1995	gec	842
1,4-Difluorobenzene (SURR)	105.0	105	100	% Rec.	05/23/1995	gec	842
1,4-Dichlorobutane (SURR)	109.0	109	100	% Rec.	05/23/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)							
Bromodichloromethane	99.0	19.8	20.0	ug/kg	05/17/1995	ltg	621
Bromoform	94.5	18.9	20.0	ug/kg	05/17/1995	ltg	621
Bromomethane	84.5	16.9	20.0	ug/kg	05/17/1995	ltg	621
Carbon tetrachloride	99.0	19.8	20.0	ug/kg	05/17/1995	ltg	621
Chlorobenzene	98.5	19.7	20.0	ug/kg	05/17/1995	ltg	621
Chloroethane	92.5	18.5	20.0	ug/kg	05/17/1995	ltg	621
2-Chloroethylvinyl ether	100.5	20.1	20.0	ug/kg	05/17/1995	ltg	621
Chloroform	99.0	19.8	20.0	ug/kg	05/17/1995	ltg	621
Chloromethane	74.5	14.9	20.0	ug/kg	05/17/1995	ltg	621
Dibromochloromethane	95.5	19.1	20.0	ug/kg	05/17/1995	ltg	621
1,2-Dichlorobenzene	92.0	18.4	20.0	ug/kg	05/17/1995	ltg	621
1,3-Dichlorobenzene	94.0	18.8	20.0	ug/kg	05/17/1995	ltg	621
1,4-Dichlorobenzene	93.5	18.7	20.0	ug/kg	05/17/1995	ltg	621
Dichlorodifluoromethane	68.0	13.6	20.0	ug/kg	05/17/1995	ltg	621
1,1-Dichloroethane	99.5	19.9	20.0	ug/kg	05/17/1995	ltg	621
1,2-Dichloroethane	97.0	19.4	20.0	ug/kg	05/17/1995	ltg	621
1,1-Dichloroethene	99.5	19.9	20.0	ug/kg	05/17/1995	ltg	621
trans-1,2-Dichloroethene	99.0	19.8	20.0	ug/kg	05/17/1995	ltg	621
1,2-Dichloropropane	97.5	19.5	20.0	ug/kg	05/17/1995	ltg	621
cis-1,3-Dichloropropene	98.5	19.7	20.0	ug/kg	05/17/1995	ltg	621
trans-1,3-Dichloropropene	101.0	20.2	20.0	ug/kg	05/17/1995	ltg	621
Methylene chloride	89.5	17.9	20.0	ug/kg	05/17/1995	ltg	621
1,1,2,2-Tetrachloroethane	88.0	17.6	20.0	ug/kg	05/17/1995	ltg	621
Tetrachloroethene	91.5	18.3	20.0	ug/kg	05/17/1995	ltg	621
1,1,1-Trichloroethane	98.0	19.6	20.0	ug/kg	05/17/1995	ltg	621
1,1,2-Trichloroethane	97.5	19.5	20.0	ug/kg	05/17/1995	ltg	621
Trichloroethene	102.0	20.4	20.0	ug/kg	05/17/1995	ltg	621
Trichlorofluoromethane	97.0	19.4	20.0	ug/kg	05/17/1995	ltg	621
Vinyl chloride	89.0	17.8	20.0	ug/kg	05/17/1995	ltg	621
1,4-Difluorobenzene (SURR)	104.0	104	100	% Rec.	05/17/1995	ltg	621
1,4-Dichlorobutane (SURR)	98.0	98	100	% Rec.	05/17/1995	ltg	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)							
Bromodichloromethane	92.0	18.4	20.0	ug/kg	05/18/1995	gec	621
Bromoform	88.0	17.6	20.0	ug/kg	05/18/1995	gec	621
Bromomethane	83.5	16.7	20.0	ug/kg	05/18/1995	gec	621
Carbon tetrachloride	95.5	19.1	20.0	ug/kg	05/18/1995	gec	621
Chlorobenzene	94.5	18.9	20.0	ug/kg	05/18/1995	gec	621
Chloroethane	87.0	17.4	20.0	ug/kg	05/18/1995	gec	621
2-Chloroethylvinyl ether	102.5	20.5	20.0	ug/kg	05/18/1995	gec	621
Chloroform	92.5	18.5	20.0	ug/kg	05/18/1995	gec	621
Chloromethane	78.0	15.6	20.0	ug/kg	05/18/1995	gec	621
Dibromochloromethane	90.0	18.0	20.0	ug/kg	05/18/1995	gec	621
1,2-Dichlorobenzene	85.0	17.0	20.0	ug/kg	05/18/1995	gec	621
1,3-Dichlorobenzene	88.5	17.7	20.0	ug/kg	05/18/1995	gec	621
1,4-Dichlorobenzene	87.5	17.5	20.0	ug/kg	05/18/1995	gec	621
Dichlorodifluoromethane	62.0	12.4	20.0	ug/kg	05/18/1995	gec	621
1,1-Dichloroethane	92.5	18.5	20.0	ug/kg	05/18/1995	gec	621
1,2-Dichloroethane	89.0	17.8	20.0	ug/kg	05/18/1995	gec	621
1,1-Dichloroethene	90.5	18.1	20.0	ug/kg	05/18/1995	gec	621
trans-1,2-Dichloroethene	92.5	18.5	20.0	ug/kg	05/18/1995	gec	621
1,2-Dichloropropane	92.0	18.4	20.0	ug/kg	05/18/1995	gec	621
cis-1,3-Dichloropropene	88.5	17.7	20.0	ug/kg	05/18/1995	gec	621
trans-1,3-Dichloropropene	91.0	18.2	20.0	ug/kg	05/18/1995	gec	621
Methylene chloride	82.0	16.4	20.0	ug/kg	05/18/1995	gec	621
1,1,2,2-Tetrachloroethane	81.0	16.2	20.0	ug/kg	05/18/1995	gec	621
Tetrachloroethene	92.0	18.4	20.0	ug/kg	05/18/1995	gec	621
1,1,1-Trichloroethane	95.5	19.1	20.0	ug/kg	05/18/1995	gec	621
1,1,2-Trichloroethane	88.5	17.7	20.0	ug/kg	05/18/1995	gec	621
Trichloroethene	95.0	19.0	20.0	ug/kg	05/18/1995	gec	621
Trichlorofluoromethane	87.5	17.5	20.0	ug/kg	05/18/1995	gec	621
Vinyl chloride	85.0	17.0	20.0	ug/kg	05/18/1995	gec	621
1,4-Difluorobenzene (SURR)	103.0	103	100	% Rec.	05/18/1995	gec	621
1,4-Dichlorobutane (SURR)	96.0	96	100	% Rec.	05/18/1995	gec	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)							
Bromodichloromethane	97.0	19.4	20.0	ug/kg	05/20/1995	gec	621
Bromoform	98.0	19.6	20.0	ug/kg	05/20/1995	gec	621
Bromomethane	97.0	19.4	20.0	ug/kg	05/20/1995	gec	621
Carbon tetrachloride	97.0	19.4	20.0	ug/kg	05/20/1995	gec	621
Chlorobenzene	96.5	19.3	20.0	ug/kg	05/20/1995	gec	621
Chloroethane	92.0	18.4	20.0	ug/kg	05/20/1995	gec	621
2-Chloroethylvinyl ether	125.0	25.0	20.0	ug/kg	05/20/1995	gec	621
Chloroform	95.0	19.0	20.0	ug/kg	05/20/1995	gec	621
Chloromethane	89.5	17.9	20.0	ug/kg	05/20/1995	gec	621
Dibromochloromethane	95.5	19.1	20.0	ug/kg	05/20/1995	gec	621
1,2-Dichlorobenzene	94.0	18.8	20.0	ug/kg	05/20/1995	gec	621
1,3-Dichlorobenzene	97.0	19.4	20.0	ug/kg	05/20/1995	gec	621
1,4-Dichlorobenzene	93.5	18.7	20.0	ug/kg	05/20/1995	gec	621
Dichlorodifluoromethane	96.0	19.2	20.0	ug/kg	05/20/1995	gec	621
1,1-Dichloroethane	94.5	18.9	20.0	ug/kg	05/20/1995	gec	621
1,2-Dichloroethane	93.5	18.7	20.0	ug/kg	05/20/1995	gec	621
1,1-Dichloroethene	93.5	18.7	20.0	ug/kg	05/20/1995	gec	621
trans-1,2-Dichloroethene	94.5	18.9	20.0	ug/kg	05/20/1995	gec	621
1,2-Dichloropropane	95.5	19.1	20.0	ug/kg	05/20/1995	gec	621
cis-1,3-Dichloropropene	97.5	19.5	20.0	ug/kg	05/20/1995	gec	621
trans-1,3-Dichloropropene	100.0	20.0	20.0	ug/kg	05/20/1995	gec	621
Methylene chloride	90.0	18.0	20.0	ug/kg	05/20/1995	gec	621
1,1,2,2-Tetrachloroethane	92.5	18.5	20.0	ug/kg	05/20/1995	gec	621
Tetrachloroethene	96.5	19.3	20.0	ug/kg	05/20/1995	gec	621
1,1,1-Trichloroethane	96.5	19.3	20.0	ug/kg	05/20/1995	gec	621
1,1,2-Trichloroethane	95.0	19.0	20.0	ug/kg	05/20/1995	gec	621
Trichloroethene	97.5	19.5	20.0	ug/kg	05/20/1995	gec	621
Trichlorofluoromethane	92.5	18.5	20.0	ug/kg	05/20/1995	gec	621
Vinyl chloride	90.5	18.1	20.0	ug/kg	05/20/1995	gec	621
1,4-Difluorobenzene (SURR)	107.0	107	100	% Rec.	05/20/1995	gec	621
1,4-Dichlorobutane (SURR)	106.0	106	100	% Rec.	05/20/1995	gec	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)							
Bromodichloromethane	94.0	18.8	20.0	ug/kg	05/19/1995	gec	621
Bromoform	96.0	19.2	20.0	ug/kg	05/19/1995	gec	621
Bromomethane	84.5	16.9	20.0	ug/kg	05/19/1995	gec	621
Carbon tetrachloride	94.0	18.8	20.0	ug/kg	05/19/1995	gec	621
Chlorobenzene	96.0	19.2	20.0	ug/kg	05/19/1995	gec	621
Chloroethane	82.5	16.5	20.0	ug/kg	05/19/1995	gec	621
2-Chloroethylvinyl ether	120.5	24.1	20.0	ug/kg	05/19/1995	gec	621
Chloroform	95.5	19.1	20.0	ug/kg	05/19/1995	gec	621
Chloromethane	80.0	16.0	20.0	ug/kg	05/19/1995	gec	621
Dibromochloromethane	95.0	19.0	20.0	ug/kg	05/19/1995	gec	621
1,2-Dichlorobenzene	94.0	18.8	20.0	ug/kg	05/19/1995	gec	621
1,3-Dichlorobenzene	95.5	19.1	20.0	ug/kg	05/19/1995	gec	621
1,4-Dichlorobenzene	92.5	18.5	20.0	ug/kg	05/19/1995	gec	621
Dichlorodifluoromethane	72.0	14.4	20.0	ug/kg	05/19/1995	gec	621
1,1-Dichloroethane	92.0	18.4	20.0	ug/kg	05/19/1995	gec	621
1,2-Dichloroethane	91.5	18.3	20.0	ug/kg	05/19/1995	gec	621
1,1-Dichloroethene	87.5	17.5	20.0	ug/kg	05/19/1995	gec	621
trans-1,2-Dichloroethene	89.5	17.9	20.0	ug/kg	05/19/1995	gec	621
1,2-Dichloropropane	92.0	18.4	20.0	ug/kg	05/19/1995	gec	621
cis-1,3-Dichloropropene	95.5	19.1	20.0	ug/kg	05/19/1995	gec	621
trans-1,3-Dichloropropene	99.0	19.8	20.0	ug/kg	05/19/1995	gec	621
Methylene chloride	89.5	17.9	20.0	ug/kg	05/19/1995	gec	621
1,1,2,2-Tetrachloroethane	89.5	17.9	20.0	ug/kg	05/19/1995	gec	621
Tetrachloroethene	94.0	18.8	20.0	ug/kg	05/19/1995	gec	621
1,1,1-Trichloroethane	95.5	19.1	20.0	ug/kg	05/19/1995	gec	621
1,1,2-Trichloroethane	93.0	18.6	20.0	ug/kg	05/19/1995	gec	621
Trichloroethene	93.5	18.7	20.0	ug/kg	05/19/1995	gec	621
Trichlorofluoromethane	86.0	17.2	20.0	ug/kg	05/19/1995	gec	621
Vinyl chloride	76.5	15.3	20.0	ug/kg	05/19/1995	gec	621
1,4-Difluorobenzene (SURR)	107.0	107	100	% Rec.	05/19/1995	gec	621
1,4-Dichlorobutane (SURR)	103.0	103	100	% Rec.	05/19/1995	gec	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	05/23/1995	caf	2854
Benzene	ND	0.5	ug/L	05/23/1995	caf	2854
Toluene	ND	0.5	ug/L	05/23/1995	caf	2854
Ethylbenzene	ND	0.5	ug/L	05/23/1995	caf	2854
Xylenes (Total)	ND	0.5	ug/L	05/23/1995	caf	2854
Bromofluorobenzene (SURR)	79		% Rec.	05/23/1995	caf	2854
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	1	mg/kg	05/19/1995	aal	1718
Benzene	ND	2.5	ug/kg	05/19/1995	aal	1718
Toluene	ND	2.5	ug/kg	05/19/1995	aal	1718
Ethylbenzene	ND	2.5	ug/kg	05/19/1995	aal	1718
Xylenes (Total)	ND	2.5	ug/kg	05/19/1995	aal	1718
Bromofluorobenzene (SURR)	98		% Rec.	05/19/1995	aal	1718
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	1	mg/kg	05/23/1995	aal	1721
Benzene	ND	2.5	ug/kg	05/23/1995	aal	1721
Toluene	ND	2.5	ug/kg	05/23/1995	aal	1721
Ethylbenzene	ND	2.5	ug/kg	05/23/1995	aal	1721
Xylenes (Total)	ND	2.5	ug/kg	05/23/1995	aal	1721
Bromofluorobenzene (SURR)	93		% Rec.	05/23/1995	aal	1721

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	05/20/1995	gec	842
Bromoform	ND	0.4	ug/L	05/20/1995	gec	842
Bromomethane	ND	0.4	ug/L	05/20/1995	gec	842
Carbon tetrachloride	ND	0.4	ug/L	05/20/1995	gec	842
Chlorobenzene	ND	0.4	ug/L	05/20/1995	gec	842
Chloroethane	ND	0.4	ug/L	05/20/1995	gec	842
2-Chloroethylvinyl ether	ND	1.0	ug/L	05/20/1995	gec	842
Chloroform	ND	0.4	ug/L	05/20/1995	gec	842
Chloromethane	ND	0.4	ug/L	05/20/1995	gec	842
Dibromochloromethane	ND	0.4	ug/L	05/20/1995	gec	842
1,2-Dichlorobenzene	ND	0.4	ug/L	05/20/1995	gec	842
1,3-Dichlorobenzene	ND	0.4	ug/L	05/20/1995	gec	842
1,4-Dichlorobenzene	ND	0.4	ug/L	05/20/1995	gec	842
Dichlorodifluoromethane	ND	0.4	ug/L	05/20/1995	gec	842
1,1-Dichloroethane	ND	0.4	ug/L	05/20/1995	gec	842
1,2-Dichloroethane	ND	0.4	ug/L	05/20/1995	gec	842
1,1-Dichloroethene	ND	0.4	ug/L	05/20/1995	gec	842
trans-1,2-Dichloroethene	ND	0.4	ug/L	05/20/1995	gec	842
1,2-Dichloropropane	ND	0.4	ug/L	05/20/1995	gec	842
cis-1,3-Dichloropropene	ND	0.4	ug/L	05/20/1995	gec	842
trans-1,3-Dichloropropene	ND	0.4	ug/L	05/20/1995	gec	842
Methylene chloride	ND	10	ug/L	05/20/1995	gec	842
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	05/20/1995	gec	842
Tetrachloroethene	ND	0.4	ug/L	05/20/1995	gec	842
1,1,1-Trichloroethane	ND	0.4	ug/L	05/20/1995	gec	842
1,1,2-Trichloroethane	ND	0.4	ug/L	05/20/1995	gec	842
Trichloroethene	ND	0.4	ug/L	05/20/1995	gec	842
Trichlorofluoromethane	ND	0.4	ug/L	05/20/1995	gec	842
Vinyl chloride	ND	0.4	ug/L	05/20/1995	gec	842
1,4-Difluorobenzene (SURR)	104		% Rec.	05/20/1995	gec	842
1,4-Dichlorobutane (SURR)	98		% Rec.	05/20/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	05/22/1995	gec	842
Bromoform	ND	0.4	ug/L	05/22/1995	gec	842
Bromomethane	ND	0.4	ug/L	05/22/1995	gec	842
Carbon tetrachloride	ND	0.4	ug/L	05/22/1995	gec	842
Chlorobenzene	ND	0.4	ug/L	05/22/1995	gec	842
Chloroethane	ND	0.4	ug/L	05/22/1995	gec	842
2-Chloroethylvinyl ether	ND	1.0	ug/L	05/22/1995	gec	842
Chloroform	ND	0.4	ug/L	05/22/1995	gec	842
Chloromethane	ND	0.4	ug/L	05/22/1995	gec	842
Dibromochloromethane	ND	0.4	ug/L	05/22/1995	gec	842
1,2-Dichlorobenzene	ND	0.4	ug/L	05/22/1995	gec	842
1,3-Dichlorobenzene	ND	0.4	ug/L	05/22/1995	gec	842
1,4-Dichlorobenzene	ND	0.4	ug/L	05/22/1995	gec	842
Dichlorodifluoromethane	ND	0.4	ug/L	05/22/1995	gec	842
1,1-Dichloroethane	ND	0.4	ug/L	05/22/1995	gec	842
1,2-Dichloroethane	ND	0.4	ug/L	05/22/1995	gec	842
1,1-Dichloroethene	ND	0.4	ug/L	05/22/1995	gec	842
trans-1,2-Dichloroethene	ND	0.4	ug/L	05/22/1995	gec	842
1,2-Dichloropropane	ND	0.4	ug/L	05/22/1995	gec	842
cis-1,3-Dichloropropene	ND	0.4	ug/L	05/22/1995	gec	842
trans-1,3-Dichloropropene	ND	0.4	ug/L	05/22/1995	gec	842
Methylene chloride	ND	10	ug/L	05/22/1995	gec	842
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	05/22/1995	gec	842
Tetrachloroethene	ND	0.4	ug/L	05/22/1995	gec	842
1,1,1-Trichloroethane	ND	0.4	ug/L	05/22/1995	gec	842
1,1,2-Trichloroethane	ND	0.4	ug/L	05/22/1995	gec	842
Trichloroethene	ND	0.4	ug/L	05/22/1995	gec	842
Trichlorofluoromethane	ND	0.4	ug/L	05/22/1995	gec	842
Vinyl chloride	ND	0.4	ug/L	05/22/1995	gec	842
1,4-Difluorobenzene (SURR)	101		% Rec.	05/22/1995	gec	842
1,4-Dichlorobutane (SURR)	90		% Rec.	05/22/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	05/23/1995	gec	842
Bromoform	ND	0.4	ug/L	05/23/1995	gec	842
Bromomethane	ND	0.4	ug/L	05/23/1995	gec	842
Carbon tetrachloride	ND	0.4	ug/L	05/23/1995	gec	842
Chlorobenzene	ND	0.4	ug/L	05/23/1995	gec	842
Chloroethane	ND	0.4	ug/L	05/23/1995	gec	842
2-Chloroethylvinyl ether	ND	1.0	ug/L	05/23/1995	gec	842
Chloroform	ND	0.4	ug/L	05/23/1995	gec	842
Chloromethane	ND	0.4	ug/L	05/23/1995	gec	842
Dibromochloromethane	ND	0.4	ug/L	05/23/1995	gec	842
1,2-Dichlorobenzene	ND	0.4	ug/L	05/23/1995	gec	842
1,3-Dichlorobenzene	ND	0.4	ug/L	05/23/1995	gec	842
1,4-Dichlorobenzene	ND	0.4	ug/L	05/23/1995	gec	842
Dichlorodifluoromethane	ND	0.4	ug/L	05/23/1995	gec	842
1,1-Dichloroethane	ND	0.4	ug/L	05/23/1995	gec	842
1,2-Dichloroethane	ND	0.4	ug/L	05/23/1995	gec	842
1,1-Dichloroethene	ND	0.4	ug/L	05/23/1995	gec	842
trans-1,2-Dichloroethene	ND	0.4	ug/L	05/23/1995	gec	842
1,2-Dichloropropane	ND	0.4	ug/L	05/23/1995	gec	842
cis-1,3-Dichloropropene	ND	0.4	ug/L	05/23/1995	gec	842
trans-1,3-Dichloropropene	ND	0.4	ug/L	05/23/1995	gec	842
Methylene chloride	ND	10	ug/L	05/23/1995	gec	842
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	05/23/1995	gec	842
Tetrachloroethene	ND	0.4	ug/L	05/23/1995	gec	842
1,1,1-Trichloroethane	ND	0.4	ug/L	05/23/1995	gec	842
1,1,2-Trichloroethane	ND	0.4	ug/L	05/23/1995	gec	842
Trichloroethene	ND	0.4	ug/L	05/23/1995	gec	842
Trichlorofluoromethane	ND	0.4	ug/L	05/23/1995	gec	842
Vinyl chloride	ND	0.4	ug/L	05/23/1995	gec	842
1,4-Difluorobenzene (SURR)	107		% Rec.	05/23/1995	gec	842
1,4-Dichlorobutane (SURR)	101		% Rec.	05/23/1995	gec	842

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)						
Bromodichloromethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Bromoform	ND	2.0	ug/kg	05/17/1995	ltg	621
Bromomethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Carbon tetrachloride	ND	2.0	ug/kg	05/17/1995	ltg	621
Chlorobenzene	ND	2.0	ug/kg	05/17/1995	ltg	621
Chloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
2-Chloroethylvinyl ether	ND	5.0	ug/kg	05/17/1995	ltg	621
Chloroform	ND	2.0	ug/kg	05/17/1995	ltg	621
Chloromethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Dibromochloromethane	ND	2.0	ug/kg	05/17/1995	ltg	621
1,2-Dichlorobenzene	ND	2.0	ug/kg	05/17/1995	ltg	621
1,3-Dichlorobenzene	ND	2.0	ug/kg	05/17/1995	ltg	621
1,4-Dichlorobenzene	ND	2.0	ug/kg	05/17/1995	ltg	621
Dichlorodifluoromethane	ND	2.0	ug/kg	05/17/1995	ltg	621
1,1-Dichloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
1,2-Dichloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
1,1-Dichloroethene	ND	2.0	ug/kg	05/17/1995	ltg	621
trans-1,2-Dichloroethene	ND	2.0	ug/kg	05/17/1995	ltg	621
1,2-Dichloropropane	ND	2.0	ug/kg	05/17/1995	ltg	621
cis-1,3-Dichloropropene	ND	2.0	ug/kg	05/17/1995	ltg	621
trans-1,3-Dichloropropene	ND	2.0	ug/kg	05/17/1995	ltg	621
Methylene chloride	ND	50	ug/kg	05/17/1995	ltg	621
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Tetrachloroethene	ND	2.0	ug/kg	05/17/1995	ltg	621
1,1,1-Trichloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
1,1,2-Trichloroethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Trichloroethene	ND	2.0	ug/kg	05/17/1995	ltg	621
Trichlorofluoromethane	ND	2.0	ug/kg	05/17/1995	ltg	621
Vinyl chloride	ND	2.0	ug/kg	05/17/1995	ltg	621
1,4-Difluorobenzene (SURR)	106		% Rec.	05/17/1995	ltg	621
1,4-Dichlorobutane (SURR)	96		% Rec.	05/17/1995	ltg	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid) .						
Bromodichloromethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Bromoform	ND	2.0	ug/kg	05/18/1995	ltg	621
Bromomethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Carbon tetrachloride	ND	2.0	ug/kg	05/18/1995	ltg	621
Chlorobenzene	ND	2.0	ug/kg	05/18/1995	ltg	621
Chloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
2-Chloroethylvinyl ether	ND	5.0	ug/kg	05/18/1995	ltg	621
Chloroform	ND	2.0	ug/kg	05/18/1995	ltg	621
Chloromethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Dibromochloromethane	ND	2.0	ug/kg	05/18/1995	ltg	621
1,2-Dichlorobenzene	ND	2.0	ug/kg	05/18/1995	ltg	621
1,3-Dichlorobenzene	ND	2.0	ug/kg	05/18/1995	ltg	621
1,4-Dichlorobenzene	ND	2.0	ug/kg	05/18/1995	ltg	621
Dichlorodifluoromethane	ND	2.0	ug/kg	05/18/1995	ltg	621
1,1-Dichloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
1,2-Dichloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
1,1-Dichloroethene	ND	2.0	ug/kg	05/18/1995	ltg	621
trans-1,2-Dichloroethene	ND	2.0	ug/kg	05/18/1995	ltg	621
1,2-Dichloropropane	ND	2.0	ug/kg	05/18/1995	ltg	621
cis-1,3-Dichloropropene	ND	2.0	ug/kg	05/18/1995	ltg	621
trans-1,3-Dichloropropene	ND	2.0	ug/kg	05/18/1995	ltg	621
Methylene chloride	ND	50	ug/kg	05/18/1995	ltg	621
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Tetrachloroethene	ND	2.0	ug/kg	05/18/1995	ltg	621
1,1,1-Trichloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
1,1,2-Trichloroethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Trichloroethene	ND	2.0	ug/kg	05/18/1995	ltg	621
Trichlorofluoromethane	ND	2.0	ug/kg	05/18/1995	ltg	621
Vinyl chloride	ND	2.0	ug/kg	05/18/1995	ltg	621
1,4-Difluorobenzene (SURR)	106		% Rec.	05/18/1995	ltg	621
1,4-Dichlorobutane (SURR)	93		% Rec.	05/18/1995	ltg	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)						
Bromodichloromethane	ND	2.0	ug/kg	05/20/1995	gec	621
Bromoform	ND	2.0	ug/kg	05/20/1995	gec	621
Bromomethane	ND	2.0	ug/kg	05/20/1995	gec	621
Carbon tetrachloride	ND	2.0	ug/kg	05/20/1995	gec	621
Chlorobenzene	ND	2.0	ug/kg	05/20/1995	gec	621
Chloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
2-Chloroethylvinyl ether	ND	5.0	ug/kg	05/20/1995	gec	621
Chloroform	ND	2.0	ug/kg	05/20/1995	gec	621
Chloromethane	ND	2.0	ug/kg	05/20/1995	gec	621
Dibromochloromethane	ND	2.0	ug/kg	05/20/1995	gec	621
1,2-Dichlorobenzene	ND	2.0	ug/kg	05/20/1995	gec	621
1,3-Dichlorobenzene	ND	2.0	ug/kg	05/20/1995	gec	621
1,4-Dichlorobenzene	ND	2.0	ug/kg	05/20/1995	gec	621
Dichlorodifluoromethane	ND	2.0	ug/kg	05/20/1995	gec	621
1,1-Dichloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
1,2-Dichloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
1,1-Dichloroethene	ND	2.0	ug/kg	05/20/1995	gec	621
trans-1,2-Dichloroethene	ND	2.0	ug/kg	05/20/1995	gec	621
1,2-Dichloropropane	ND	2.0	ug/kg	05/20/1995	gec	621
cis-1,3-Dichloropropene	ND	2.0	ug/kg	05/20/1995	gec	621
trans-1,3-Dichloropropene	ND	2.0	ug/kg	05/20/1995	gec	621
Methylene chloride	ND	50	ug/kg	05/20/1995	gec	621
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
Tetrachloroethene	ND	2.0	ug/kg	05/20/1995	gec	621
1,1,1-Trichloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
1,1,2-Trichloroethane	ND	2.0	ug/kg	05/20/1995	gec	621
Trichloroethene	ND	2.0	ug/kg	05/20/1995	gec	621
Trichlorofluoromethane	ND	2.0	ug/kg	05/20/1995	gec	621
Vinyl chloride	ND	2.0	ug/kg	05/20/1995	gec	621
1,4-Difluorobenzene (SURR)	108		% Rec.	05/20/1995	gec	621
1,4-Dichlorobutane (SURR)	97		% Rec.	05/20/1995	gec	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Solid)						
Bromodichloromethane	ND	2.0	ug/kg	05/19/1995	gec	621
Bromoform	ND	2.0	ug/kg	05/19/1995	gec	621
Bromomethane	ND	2.0	ug/kg	05/19/1995	gec	621
Carbon tetrachloride	ND	2.0	ug/kg	05/19/1995	gec	621
Chlorobenzene	ND	2.0	ug/kg	05/19/1995	gec	621
Chloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
2-Chloroethylvinyl ether	ND	5.0	ug/kg	05/19/1995	gec	621
Chloroform	ND	2.0	ug/kg	05/19/1995	gec	621
Chloromethane	ND	2.0	ug/kg	05/19/1995	gec	621
Dibromochloromethane	ND	2.0	ug/kg	05/19/1995	gec	621
1,2-Dichlorobenzene	ND	2.0	ug/kg	05/19/1995	gec	621
1,3-Dichlorobenzene	ND	2.0	ug/kg	05/19/1995	gec	621
1,4-Dichlorobenzene	ND	2.0	ug/kg	05/19/1995	gec	621
Dichlorodifluoromethane	ND	2.0	ug/kg	05/19/1995	gec	621
1,1-Dichloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
1,2-Dichloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
1,1-Dichloroethene	ND	2.0	ug/kg	05/19/1995	gec	621
trans-1,2-Dichloroethene	ND	2.0	ug/kg	05/19/1995	gec	621
1,2-Dichloropropane	ND	2.0	ug/kg	05/19/1995	gec	621
cis-1,3-Dichloropropene	ND	2.0	ug/kg	05/19/1995	gec	621
trans-1,3-Dichloropropene	ND	2.0	ug/kg	05/19/1995	gec	621
Methylene chloride	ND	50	ug/kg	05/19/1995	gec	621
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
Tetrachloroethene	ND	2.0	ug/kg	05/19/1995	gec	621
1,1,1-Trichloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
1,1,2-Trichloroethane	ND	2.0	ug/kg	05/19/1995	gec	621
Trichloroethene	ND	2.0	ug/kg	05/19/1995	gec	621
Trichlorofluoromethane	ND	2.0	ug/kg	05/19/1995	gec	621
Vinyl chloride	ND	2.0	ug/kg	05/19/1995	gec	621
1,4-Difluorobenzene (SURR)	107		% Rec.	05/19/1995	gec	621
1,4-Dichlorobutane (SURR)	99		% Rec.	05/19/1995	gec	621

Ref: Shell 2101 Park Blvd., Oakland, CA.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 5030/8015-M (Shell)											242089
Purgeable TPH	102.0	106.0	3.8	0.50	ND	0.51	0.53	mg/L	05/23/1995	2854	242089
Benzene	92.0	93.1	1.2	8.7	ND	8.0	8.1	ug/L	05/23/1995	2854	242089
Toluene	92.8	94.2	1.5	29.2	ND	27.1	27.5	ug/L	05/23/1995	2854	242089
METHOD 5030/8015-M (Shell)											242137
Purgeable TPH	88.8	91.6	3.1	2.50	ND	2.22	2.29	mg/kg	05/19/1995	1718	242137
Benzene	79.9	88.0	9.6	41.8	ND	33.4	36.8	ug/kg	05/19/1995	1718	242137
Toluene	82.3	89.2	8.0	158	ND	130	141	ug/kg	05/19/1995	1718	242137
METHOD 5030/8015-M (Shell)											242133
Purgeable TPH	108.0	110.8	2.6	2.50	ND	2.70	2.77	mg/kg	05/23/1995	1721	242133
Benzene	91.0	103.3	12.6	36.6	ND	33.3	37.8	ug/kg	05/23/1995	1721	242133
Toluene	91.2	99.3	8.5	147	ND	134	146	ug/kg	05/23/1995	1721	242133

Ref: Shell 2101 Park Blvd., Oakland, CA.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 8010 (GC,Liquid)											241888
Chlorobenzene	105.0	96.5	8.3	20.0	ND	21.0	19.3	ug/L	05/20/1995	842	241888
1,1-Dichloroethene	102.0	93.0	9.1	20.0	ND	20.4	18.6	ug/L	05/20/1995	842	241888
Trichloroethene	107.0	99.5	7.2	20.0	ND	21.4	19.9	ug/L	05/20/1995	842	241888

Ref: Shell 2101 Park Blvd., Oakland, CA.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 8010 (GC,Solid)											241657
Chlorobenzene	93.3	98.0	4.9	97.0	ND	90.5	98.6	ug/kg	05/17/1995	621	241657
1,1-Dichloroethene	92.7	102.8	10.2	97.0	ND	89.9	103	ug/kg	05/17/1995	621	241657
Trichloroethene	95.7	103.0	7.2	97.0	ND	92.8	104	ug/kg	05/17/1995	621	241657

NET®

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.

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

COOLER RECEIPT FORM

Project: 2101 Park Blvd., Oakland, CA Log No: 1689
Cooler received on: 5-17-95 and checked on 5-17-95 by
(signature)

Were custody papers present?.....~~YES~~ NO

Were custody papers properly filled out?.....~~YES~~ NO

Were the custody papers signed?.....~~YES~~ NO

Was sufficient ice used?.....(YES) NO Temp 3.0°

Did all bottles arrive in good condition (unbroken)?.....~~YES~~ NO

Did bottle labels match COC?.....~~YES~~ NO

Were proper bottles used for analysis indicated?.....~~YES~~ NO

Correct preservatives used?.....~~YES~~ NO

VOA vials checked for headspace bubbles?.....YES NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

#6819

Date: 17-May-95
Page 1 of 2

Site Address: 2101 Park Blvd Oakland

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker
Phone No.: 510 675-6169
Fax #: 675-6172

Consultant Name & Address: Enviros, Inc., P.O. Box 259, Sonoma, CA, 95476

Consultant Contact: Joe Neely
Phone No.: 707 935-4854
Fax #: 935-4649

Comments:

Sampled by: JN

Printed Name: Joe Neely

LAB: NET

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	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-3	16-may 95		X			1						X								
SC-6						1						X								
SD-6						1						X								
SF-5						1						X								
SG-5						1						X								
SH-6.5						1						X								
SI-3.5						1						X								
SJ-4						1						X								

CHECK ONE (1) BOX ONLY | C1/D1 | TURN AROUND TIME

G.W. Monitoring	4461	24 hours ☐
Site Investigation	☑ 4461	48 hours ☐
Soil Classify/Disposal	☐ 4462	15 days ☑ (Normal)
Water Classify/Disposal	☐ 4463	Other ☐ ____
Soil/Air Rem. or Sys. O & M	☐ 4462	NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M	☐ 4463	
Other	☐	

UST AGENCY: _____

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Joe Neely	Joe Neely	17-May-95	11:33				
	PAUL PROSSER	5/17/95	1230		PAM GREENE	5-17-95	12:30

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

End Of Chain of Custody

#6819.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ____

Date: 17-May-95

Page 2 of 2

Site Address: 2101 Park Blvd, Oakland

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker — **Phone No.:** 510 675 — **Fax #:** 675-6172

Consultant Name & Address: Enviros, Inc., P.O. Box 259, Sonoma, CA, 95476

Consultant Contact: Joe Neely — **Phone No.:** 707 935-4854 — **Fax #:** 935-6649

Comments:

Sampled by: JN

Printed Name: Joe Neely

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT
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 [ ]
- 16 days [✓] (Normal)
- Other [ ] ____

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

UST AGENCY: ____

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 8010)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SL-5.5	16 May 95					1				X		X								
SL	↓			X		6				X		X								
SD	↓			X		3						X								
Trip Blank	↓			X		1						X								

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	Joe Neely	Date: 17 May 95 Time: 11:23	[signature]	Phil Prosser	Date: 5/17/95 Time: 1125
[signature]	Phil Prosser	Date: 5/17/95 Time: 1230			Date: Time:
		Date: Time:			Date: Time:

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Joe Neely

Project: Shell 2101 Park Blvd. Oakland

Enclosed are the results from samples received at Sequoia Analytical on June 19, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9506C8401	SOLID, S-1-5	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8402	SOLID, S-1-10.5	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8403	SOLID, S-2-5	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8404	SOLID, S-2-10	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8405	SOLID, S-2-15	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8406	SOLID, S-3-5.5	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8407	SOLID, S-3-10.5	6/15/95	TPHGB Purgeable TPH/BTEX
9506C8408	SOLID, SP-A(Comp SPA-D)	6/15/95	Lead Organic Lead TPHGB Purgeable TPH/BTEX

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

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros
270 Perkins Ave.
Sonoma, CA 95476

Attention: Joe Neely

Client Proj. ID: Shell 2101 Park Blvd. Oakland

Lab Proj. ID: 9506C84

Sampled: 06/15/95
Received: 06/19/95
Analyzed: see below

Reported: 07/03/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9506C84-08				
Sample Desc : **SOLID,SP-A (Comp SPA-D)**				
Lead	**mg/Kg**	**06/22/95**	**5.0**	**17**
Organic Lead	mg/Kg	06/30/95	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-1-5	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/21/95
Attention: Joe Neely	Lab Number: 9506C84-01	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-1-10.5	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/21/95
Attention: Joe Neely	Lab Number: 9506C84-02	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-2-5	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/22/95
Attention: Joe Neely	Lab Number: 9506C84-03	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**200**
Benzene	0.12	N.D.
Toluene	**0.12**	**2.4**
Ethyl Benzene	**0.12**	**2.1**
Xylenes (Total)	**0.12**	**3.3**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	251 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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

Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-2-10	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/22/95
Attention: Joe Neely	Lab Number: 9506C84-04	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**40**
Benzene	0.025	N.D.
Toluene	**0.025**	**0.30**
Ethyl Benzene	**0.025**	**0.15**
Xylenes (Total)	**0.025**	**0.46**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	195 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-2-15	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/22/95
Attention: Joe Neely	Lab Number: 9506C84-05	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	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 - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-3-5.5	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/22/95
Attention: Joe Neely	Lab Number: 9506C84-06	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**550**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**7.3**
Xylenes (Total)	**0.50**	**27**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	157 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: S-3-10.5	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/21/95
Attention: Joe Neely	Lab Number: 9506C84-07	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Sampled: 06/15/95
270 Perkins Ave.	Sample Descript: SP-A (Comp SPA-D)	Received: 06/19/95
Sonoma, CA 95476	Matrix: SOLID	Extracted: 06/21/95
	Analysis Method: 8015Mod/8020	Analyzed: 06/22/95
Attention: Joe Neely	Lab Number: 9506C84-08	Reported: 07/03/95

QC Batch Number: GC062195BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**99**
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**0.95**
Xylenes (Total)	**0.25**	**3.7**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Enviros	Client Proj. ID: Shell 2101 Park Blvd. Oakland	Received: 06/19/95
270 Perkins Ave.		
Sonoma, CA 95476	Lab Proj. ID: 9506C84	Reported: 07/03/95
Attention: Joe Neely		

LABORATORY NARRATIVE

#Q - Surrogate co-elution was confirmed.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

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Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Joe Neely

Client Project ID: Shell 2101 Park Blvd. Oakland
Matrix: Solid
Work Order #: 9506C84 01-08
Reported: Jul 6, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC062195BTEXEXB	GC062195BTEXEXB	GC062195BTEXEXB	GC062195BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Mann	S. Mann	S. Mann	S. Mann
MS/MSD #:	950690602	950690602	950690602	950690602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/21/95	6/21/95	6/21/95	6/21/95
Analyzed Date:	6/21/95	6/21/95	6/21/95	6/21/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.18	0.18	0.18	0.53
MS % Recovery:	90	90	90	88
Dup. Result:	0.19	0.19	0.19	0.57
MSD % Recov.:	95	95	95	95
RPD:	5.4	5.4	5.4	7.3
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				
MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Joe Neely

Client Project ID: Shell 2101 Park Blvd. Oakland
Matrix: Solid
Work Order #: 9506C84 08
Reported: Jul 6, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0621956010MDE	ME0621956010MDE	ME0621956010MDE	ME0621956010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9506C8302	9506C8302	9506C8302	9506C8302
Sample Conc.:	0.52	1.3	78	120
Prepared Date:	6/21/95	6/21/95	6/21/95	6/21/95
Analyzed Date:	6/21/95	6/21/95	6/21/95	6/21/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	100	98	170	210
MS % Recovery:	99	97	92	90
Dup. Result:	99	98	150	180
MSD % Recov.:	98	97	72	60
RPD:	1.0	0.0	13	15
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK062195	BLK062195	BLK062195	BLK062195
Prepared Date:	6/21/95	6/21/95	6/21/95	6/21/95
Analyzed Date:	6/21/95	6/21/95	6/21/95	6/21/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Joe Neely

Client Project ID: Shell 2101 Park Blvd. Oakland
Matrix: Solid
Work Order #: 9506C84 08
Reported: Jul 6, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Organic Lead
QC Batch#:	ME062995LUFTMDA
Analy. Method:	LUFT
Prep. Method:	LUFT
Analyst:	R. Butler
MS/MSD #:	9506C8408
Sample Conc.:	N.D.
Prepared Date:	6/29/95
Analyzed Date:	6/30/95
Instrument I.D.#:	MV2
Conc. Spiked:	4.0 mg/Kg
Result:	3.8
MS % Recovery:	95
Dup. Result:	4.2
MSD % Recov.:	110
RPD:	10
RPD Limit:	0-30

LCS #:	BLK062995
Prepared Date:	6/29/95
Analyzed Date:	6/30/95
Instrument I.D.#:	MV2
Conc. Spiked:	1.0 mg/Kg
LCS Result:	0.99
LCS % Recov.:	99

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY

RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 15-Jun-95

Page 1 of 2

Site Address: 2101 Park Blvd, Oakland

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker

Phone No.: 510 675-6169

Fax #: 675-6172

Consultant Name & Address: Enviros, Inc., P.O. Box 259, Sonoma, CA, 95476

Consultant Contact: Joe Neely

Phone No.: 707 935-4854

Fax #: 935-6649

Comments:

Sampled by: JN

Printed Name: Joe Neely

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT
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 ☑ Need results 6-Jul-95

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

UST AGENCY:

Analysis Required: 9506C84

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)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-1-5	15-Jun 95		X			1						X						N		1
S-1-10.5	↓		↓			↓						X						↓		2
S-1-15.5																				Hold
S-1-18																				Hold
S-2-5												X								3
S-2-10												X								4
S-2-15												X								5
S-2-17.5																				Hold

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
Joe Neely	Joe Neely	Date: 19-Jun-95 Time: 10:55	[signature]		Date: Time:
[signature]	Gary Tadesse	Date: 6-19 Time: 12:30	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	R. Ferson	R. Ferson	Date: 6/19/95 Time: 1235

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 15-Jun-95

Site Address: 2101 Park Blvd, Oakland

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker — **Phone No.:** 510 675-6169 **Fax #:** 675-6172

Consultant Name & Address: Enviros, Inc., P.O. Box 259, Sonoma, CA, 95476

Consultant Contact: Joe Neely — **Phone No.:** 707 935-4854 **Fax #:** 935-6649

Comments:

Sampled by: JN

Printed Name: Joe Neely

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
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 ☑ Need results 6-Jul-95

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

UST AGENCY:

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)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + Shell Decision tree	TTLC Lead		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-3-5.5	15-Jun 95		X			1						X						N		6
S-3-10.5	↓		↓			↓						X						↓		7
S-3-15.5	↓		↓			↓												↓		Hold
S-3-17.5	↓		↓			↓												↓		Hold
SP-A,B,C,D	↓		↓			4						X	X					Y		8

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
Jo Neely	Joe Neely	Date: 19-Jun-95 Time: 10:58	[signature]		Date: Time:
[signature]	Gary Trolese	Date: 6-19 Time: 12:20	Received (signature):	Printed Name:	Date: Time:
	Printed Name:	Date: Time:	[signature]	R. Iverson	Date: 6/19/95 Time: 1235

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

Appendix D

Blaine Tech Services, Inc.

Groundwater Monitoring Report

and

Well Development Data

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRI
SAN JOSE, CA 95
(408) 995-5
FAX (408) 293-8

July 12, 1995

Shell Oil Comapny
P.O. Box 4023
Concord, CA 94524

Attention: Lynn Walker

SITE:
Shell WIC # 204-5508-1206
2101 Park Blvd.
Oakland, California

PROJECT:
Well Development

PROJECT INITIATED ON:
June 20, 1995

WELL DEVELOPMENT REPORT 950620-D-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results or become involved with the marketing or installation of remedial systems. The interpretation of results should be performed by representatives of the interested regulatory agencies and those certified professionals who are engaged as paid consultants in the business of providing professional opinions along with recommendations and proposals for further investigative or remedial activities.

As an independent third party, Blaine Tech Services, Inc. routinely performs evacuation and sampling of groundwater wells. In addition, we are frequently asked to provide specialized personnel, instruments and equipment for well development work Similar standards of care and cleanliness are required in all these activities and our personnel are accustomed to the safety measures that must be taken

Scope of Requested Services

Blaine Tech Services, Inc. was asked to provide specialized equipment, instruments and personnel for a well development project being overseen by Joe Neely from Enviros, Inc.

Execution of Recent Work

Our personnel arrived at the site on Tuesday, June 20, 1995 and developed three wells in accordance with our client's specifications communicated to us by Mr. Joe Neely. A summary of the well development actions is presented in the table of field data at the end of this report.

STANDARD PROCEDURES

Overview

Because formations vary in their geologic composition, transmissivity and water production capability, well development cannot be reduced to a set of fixed procedures that will always produce a complete and satisfactory result if just repeated for a predetermined period of time. Instead, well development is accomplished by selecting procedures that (a.) repair that portion of the native formation that was disrupted by the cutting action of the well drilling tool, and (b.) promote the flow of water out of the formation into the newly installed well (through the granular filter pack and well screen). Execution of development actions that are not appropriate to the native formation will be inefficient and in some cases deleterious.

Time constraints usually prevent a precise classification of the saturated zone materials by analysis of soil samples for physical characteristics at a laboratory equipped to do physical testing. Physical tests cannot usually be completed during the brief timespan of a project that combines exploration, design, and well installation into a one day effort. Instead, the subjective judgments of the field geologist are recorded in the boring log and well installation log. The field geologist must quickly evaluate soil types by their appearance and observable characteristics and record his or her estimation of the material in the log according to the categorical judgments provided by the Unified Soil Classification System. These categorical judgments are also the basis for determining the final construction specifications of the well.

The well's total depth, the length of the screened interval, the slot size, and the size of the sand used in the filter pack are all decided on the *appearance* of the soil cuttings and whatever quick tests the field geologist can perform. Because the physical specifications for the well are set at that moment and cannot be corrected later, any misclassification of soil that results in a

mismatching of the well to the native formation will have to be addressed and corrected (to whatever extent is possible) with well development actions, alone.

Well development work can be directed in two ways:

> First, specific well development actions can be called for by the geologist who installed the wells or by another professional reviewing that installation work. Typically, consultants specify the use of certain equipment and techniques.
>
> Second, the consultant or client can define the goal which is being sought and place limits on the amount of effort which should be taken to achieve the goal.

Of the two types of direction, the second is far more common and also more important. Defining the extent of effort which can be expended is vital to controlling costs on a project and scheduling personnel and equipment to complete the work. Moreover, it is possible to undertake and complete work without the added and frequently unnecessary effort of working out very detailed specification which may be impractical or unwarranted. This does not mean that our personnel cannot make use of well installation logs when they are available or are not receptive to very specific directions from the consultant. It does, however, mean that when very detailed directions are given, rapid communication between our personnel and the geologist become very important. This is especially true of sites where multiple wells have been installed, because wells even a short distance apart may demonstrate quite different characteristics which may require a rapid reevaluation of what well development procedures are appropriate in light of the hydrologic condition presented by the native formation at that location on the site.

In most cases, tightly controlled action sequences are less productive than more general directions combined with plain statements of what evaluation criteria should be used for judging the progress and completeness of the well development work. The most common standards are volumetric (removal of set volumes of water), recharge rate, and water clarity (measured as nephelometric turbidity units). Given these goals and limitations, our personnel can proceed with the work without supervision or direction by relying on empirical information obtained directly from the water in the well

Selection of Development Equipment

Each Blaine Tech Services, Inc. vehicle provided for a well development project will have a wide assortment of development tools including stainless steel surgeblocks and swabs, several types of pumps and complete instrumentation for determining standard parameters Special equipment which included certain types of winches, jetting heads, and drop surging pumps can be provided.

General Policy

Truly difficult conditions which can only be resolved by the application of massive force or large volumes of high pressure air should be addressed by a drilling or pump installation contractor. Blaine Tech Services, Inc. is not in the heavy salvage business and has a general policy against the use of tools or techniques which provide enough mechanical advantage to pose a serious risk of damaging a well. The same policy prohibits introducing foreign materials into a well which could carry contaminants into the groundwater. In keeping with this policy, our personnel avoid surging with slugs of effluent water, or jetting with unfiltered air unless these actions are specifically requested by a registered professional who is cognizant of the problems and hazards that accompany the action. In a similar vein, our personnel will, whenever possible, avoid development actions that are likely to seal clay formations or promote bridging, and make every attempt to call obvious indication of such conditions to the attention of the project geologist so that a different regimen can be selected.

Effluent Materials

Groundwater well sampling protocols call for the evacuation of a sufficient volume of water from the well to insure that the sample is collected from the water that has been newly drawn into the well from the surrounding geologic formation.

Well development routinely generates as much or more effluent water as does routine evacuation prior to monitoring. In some cases very large amounts of water must be removed from the well before a satisfactory level of development has been achieved. The effluent water from these development actions must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new DOT 17 E drums to the site which are appropriate for the containment of the effluent materials.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment will be decontaminated after use in each well and before leaving the site. Decontamination consists of complete disassembly of the device to a point where a jet of stem cleaner water can be directed onto all internal surfaces. Blaine Tech Services, Inc. frequently modifies apparatus to allow complete disassembly and proper cleaning

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120 training as soon after being hired as practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/dk

S-1 WELL DEVELOPMENT LOG

Well Designation	Well Diameter (inches)	Well Depth (feet)	Initial Depth to Water (feet)	Volume of single case (gallons)
S-1	2	17.10	3.58	2.2

Equipment Used: Middleburg/Surge Block

Data collection during well development:

Date	Time	Gallons Removed	Temp. (F)	pH	EC (micromhos)	Turbidity (NTU)	Notes
06/20/95	14:05	2.0	61.6	8.0	1200	>200	Silty/Brown
06/20/95	14:07	4.0	61.4	8.0	1100	>200	Silty/Brown
06/20/95	14:09	6.5	61.4	7.8	1100	>200	Silty/Brown
06/20/95	14:11	8.5	60.8	7.8	1000	>200	Silty/Brown
06/20/95	14:13	10.5	60.2	7.8	800	>200	Silty/Brown
06/20/95	14:15	13.0	59.4	7.8	700	>200	Good recharge
06/20/95	14:17	15.0	58.6	7.6	800	>200	Brown
06/20/95	14:19	17.5	58.6	7.6	800	>200	Brown
06/20/95	14:21	20.0	58.4	7.6	800	>200	Brown
06/20/95	14:23	22.0	58.6	7.6	800	>200	Brown

14:28 End log. Depth to Water @ 8.22'.
Depth to Bottom @ 17.10'

S-2 WELL DEVELOPMENT LOG

Well Designation	Well Diameter (inches)	Well Depth (feet)	Initial Depth to Water (feet)	Volume of single case (gallons)
S-2	2	17.08	5.43	1.9

Equipment Used: Middleburg/Surge Block

Data collection during well development:

Date	Time	Gallons Removed	Temp. (F)	pH	EC (micromhos)	Turbidity (NTU)	Notes
06/20/95	12:35	2.0	63.2	7.4	700	>200	Dark Brown
06/20/95	12:37	4.0	59.8	7.3	600	>200	
06/20/95	12:39	6.0	59.2	7.4	600	>200	Brown
06/20/95	12:42	8.0	59.2	7.4	500	>200	Dewatered @ 9 gals.
06/20/95	12:54	10.0	58.9	7.4	400	>200	
06/20/95	13:08	12.0	59.8	7.4	400	>200	Brown
06/20/95	13:15	14.0	59.6	7.4	400	>200	Slow Recharge
06/20/95	13:25	16.0	59.8	7.4	400	>200	Slow recharge
06/20/95	13:35	18.0	59.8	7.4	400	>200	Slow recharge
06/20/95	13:45	19.0	59.6	7.4	400	>200	Slow recharge

13:50 End log. Depth to Water @ 16.05'.
Depth to Bottom @ 17.08'

S-3 WELL DEVELOPMENT LOG

Well Designation	Well Diameter (inches)	Well Depth (feet)	Initial Depth to Water (feet)	Volume of single case (gallons)
S-3	2	15.34	4.80	1.7

Equipment Used: Middleburg/Surge Block

Data collection during well development:

Date	Time	Gallons Removed	Temp. (F)	pH	EC (micromhos)	Turbidity (NTU)	Notes
06/20/95	14:45	2.0	61.8	8.2	1400	>200	Silty/Brown
06/20/95	14:47	4.0	62.4	8.2	1200	>200	Silty/Brown
06/20/95	14:49	5.0	61.8	8.0	1200	>200	Silty/Brown
06/20/95	14:51	7.0	60.0	8.0	1000	>200	Recharging @ 1 gal/min.
06/20/95	14:53	9.0	60.2	7.8	900	>200	Silty/Brown
06/20/95	14:55	12.0	59.8	7.8	900	>200	Good recharge
06/20/95	14:57	13.0	58.8	7.8	800	>200	Good recharge
06/20/95	14:59	14.0	58.8	7.8	800	>200	Good recharge
06/20/95	15:01	16.0	59.0	7.8	800	>200	Brown
06/20/95	15:03	17.0	58.8	7.8	800	>200	Slight odor
							Hard bottom

15:15 End log. Depth to Water @ 6.80'.
Depth to Bottom @ 17.38'

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIV
SAN JOSE, CA 951
(408) 995-55
FAX (408) 293-87

July 12, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: Lynn Walker

SITE:
Shell WIC #204-5508-1206
2101 Park Blvd.
Oakland, California

QUARTER:
2nd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950622-V-2

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3 0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well gauging data
chain of custody
certified analytical report

cc. Enviros, Inc.
P O. Box 259
Sonoma, CA 95476-0259
ATTN: Joe Neely

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	6/22/95	TOC	--	NONE	--	--	4.67	17.10
S-2	6/22/95	TOC	--	NONE	--	--	5.80	17.08
S-3 *	6/22/95	TOC	--	NONE	--	--	4.90	15.34

* Sample DUP was a duplicate sample taken from well S-3.

#1323

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 950622-V-2

Date:
Page 1 of 1

Site Address: 2101 Park Blvd., Oakland, CA

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #:

Consultant Name & Address: Blaine Tech Services, Inc., 985 Timothy Dr., San Jose, CA

Consultant Contact: Fran Thie
Phone No.: (408) 995-5535, 201
Fax #: 293-8773

Comments:

Sampled by: [signature]

Printed Name: F.A. VANDENBROECK

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring [X]	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 [ ] 16 days [X] (Normal) Other [ ]

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

UST AGENCY:

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)	Test for Disposal	Combination TPH 8015 & BTEX 8020	TOG	8010	~~Asbestos~~ ICAP Metals (Cd, Cr, Pb, Ni, Zn)	Container Size	Preparation Used (per Joe Neely to GB 6/23/95)	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-1	6/22			✓		11		✓				✓	✓	✓	✓				Purged well water	
S-2	6/22			✓		3						✓							↓	
S-3	6/22			✓		3						✓							↓	
TRIP	6/22			✓		2						✓							↓	
DUP	6/22			✓		3						✓							↓	

(6/23/95 GB) Seal Intact

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
[signature]	F.A. VANDENBROECK	Date: 6/23 Time: 12:00	[signature]	[illegible]	Date: 6/23 Time: 12:00
[signature]	[illegible]	Date: 6/23 Time: 16:30			Date: Time:
		Date: Time:	[signature]	KIM PROSSER	Date: 6/25/95 Time: 0700

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

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 07/05/1995
NET Client Acct. No: 1821
NET Job No: 95.02485
Received: 06/24/1995

Client Reference Information

Shell 2101 Park Blvd., Oakland, CA./950622-V-2

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:

Ken Larson
Division Manager

Jennifer L. Roseberry
Project Manager

Enclosure(s)

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: S-1
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244737

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
Oil & Grease (Total)	ND		5,000	ug/L	5520B		06/27/1995	339
Oil & Grease (Non-Polar)	ND		5,000	ug/L	5520B/F		06/27/1995	323
METHOD 6010 (LIQUID)	--						06/28/1995	920
Cadmium (ICP)	ND		20	ug/L	EPA 6010	06/27/1995	06/28/1995	757
Chromium (ICP)	270		20	ug/L	EPA 6010	06/27/1995	06/28/1995	715
Lead (GFAA)	37		2	ug/L	EPA 7421	06/27/1995	06/28/1995	665
Nickel (ICP)	310		50	ug/L	EPA 6010	06/27/1995	06/28/1995	713
Zinc (ICP)	280		50	ug/L	EPA 6010	06/27/1995	06/28/1995	885
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						06/29/1995	2965
Purgeable TPH	160		50	ug/L	5030/M8015		06/29/1995	2965
Carbon Range: C6 to C12	--						06/29/1995	2965
METHOD 8020 (GC, Liquid)	--						06/29/1995	2965
Benzene	ND		0.5	ug/L	8020		06/29/1995	2965
Toluene	ND		0.5	ug/L	8020		06/29/1995	2965
Ethylbenzene	ND		0.5	ug/L	8020		06/29/1995	2965
Xylenes (Total)	ND		0.5	ug/L	8020		06/29/1995	2965
SURROGATE RESULTS	--						06/29/1995	2965
Bromofluorobenzene (SURR)	94			% Rec.	8020		06/29/1995	2965
METHOD 3510/8015-M (Shell)						06/28/1995		
DILUTION FACTOR*	1						06/29/1995	1021
Extractable TPH	360		50	ug/L	3510/M8015		06/29/1995	1021
Carbon range: C10 to C28	--						06/29/1995	1021

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: S-1
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244737

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						06/27/1995	855
Bromodichloromethane	ND		0.4	ug/L	8010		06/27/1995	855
Bromoform	ND		0.4	ug/L	8010		06/27/1995	855
Bromomethane	ND		0.4	ug/L	8010		06/27/1995	855
Carbon tetrachloride	ND		0.4	ug/L	8010		06/27/1995	855
Chlorobenzene	ND		0.4	ug/L	8010		06/27/1995	855
Chloroethane	ND		0.4	ug/L	8010		06/27/1995	855
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		06/27/1995	855
Chloroform	ND		0.4	ug/L	8010		06/27/1995	855
Chloromethane	ND		0.4	ug/L	8010		06/27/1995	855
Dibromochloromethane	ND		0.4	ug/L	8010		06/27/1995	855
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		06/27/1995	855
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		06/27/1995	855
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		06/27/1995	855
Dichlorodifluoromethane	ND		0.4	ug/L	8010		06/27/1995	855
1,1-Dichloroethane	ND		0.4	ug/L	8010		06/27/1995	855
1,2-Dichloroethane	ND		0.4	ug/L	8010		06/27/1995	855
1,1-Dichloroethene	ND		0.4	ug/L	8010		06/27/1995	855
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		06/27/1995	855
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		06/27/1995	855
1,2-Dichloropropane	ND		0.4	ug/L	8010		06/27/1995	855
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/27/1995	855
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/27/1995	855
Methylene chloride	ND		10	ug/L	8010		06/27/1995	855
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		06/27/1995	855
Tetrachloroethene	ND		0.4	ug/L	8010		06/27/1995	855
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		06/27/1995	855
1,1,2-Trichloroethane	ND		1	ug/L	8010		06/27/1995	855
Trichloroethene	ND		0.4	ug/L	8010		06/27/1995	855
Trichlorofluoromethane	ND		0.4	ug/L	8010		06/27/1995	855
Vinyl chloride	ND		0.4	ug/L	8010		06/27/1995	855
SURROGATE RESULTS	--						06/27/1995	855
1,4-Difluorobenzene (SURR)	106			% Rec.			06/27/1995	855
1,4-Dichlorobutane (SURR)	94			% Rec.			06/27/1995	855

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: S-2
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244738

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						06/29/1995	2965
Purgeable TPH	180		50	ug/L	5030/M8015		06/29/1995	2965
Carbon Range: C6 to C12	--						06/29/1995	2965
METHOD 8020 (GC, Liquid)	--						06/29/1995	2965
Benzene	1.1		0.5	ug/L	8020		06/29/1995	2965
Toluene	ND		0.5	ug/L	8020		06/29/1995	2965
Ethylbenzene	ND		0.5	ug/L	8020		06/29/1995	2965
Xylenes (Total)	0.6		0.5	ug/L	8020		06/29/1995	2965
SURROGATE RESULTS	--						06/29/1995	2965
Bromofluorobenzene (SURR)	97			% Rec.	8020		06/29/1995	2965

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: S-3
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244739

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						06/29/1995	2965
Purgeable TPH	5,500	FC	500	ug/L	5030/M8015		06/30/1995	2975
Carbon Range: C6 to C12	--						06/29/1995	2965
METHOD 8020 (GC, Liquid)	--						06/29/1995	2965
Benzene	240	FC	5	ug/L	8020		06/30/1995	2975
Toluene	34		0.5	ug/L	8020		06/29/1995	2965
Ethylbenzene	120	FC	5	ug/L	8020		06/30/1995	2975
Xylenes (Total)	840	FC	5	ug/L	8020		06/30/1995	2975
SURROGATE RESULTS	--						06/29/1995	2965
Bromofluorobenzene (SURR)	107			% Rec.	8020		06/30/1995	2975

FC Compound quantitated at a 10X dilution factor

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: TRIP
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244740

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						06/29/1995	2965
Purgeable TPH	ND		50	ug/L	5030/M8015		06/29/1995	2965
Carbon Range: C6 to C12	--						06/29/1995	2965
METHOD 8020 (GC, Liquid)	--						06/29/1995	2965
Benzene	ND		0.5	ug/L	8020		06/29/1995	2965
Toluene	ND		0.5	ug/L	8020		06/29/1995	2965
Ethylbenzene	ND		0.5	ug/L	8020		06/29/1995	2965
Xylenes (Total)	ND		0.5	ug/L	8020		06/29/1995	2965
SURROGATE RESULTS	--						06/29/1995	2965
Bromofluorobenzene (SURR)	87			% Rec.	8020		06/29/1995	2965

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

SAMPLE DESCRIPTION: DUP
Date Taken: 06/22/1995
Time Taken:
NET Sample No: 244741

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						06/29/1995	2965
Purgeable TPH	6,300	FD	1,000	ug/L	5030/M8015		06/30/1995	2975
Carbon Range: C6 to C12	--						06/29/1995	2965
METHOD 8020 (GC, Liquid)	--						06/29/1995	2965
Benzene	270	FD	10	ug/L	8020		06/30/1995	2975
Toluene	37		0.5	ug/L	8020		06/29/1995	2965
Ethylbenzene	120	FD	10	ug/L	8020		06/30/1995	2975
Xylenes (Total)	1,100	FD	10	ug/L	8020		06/30/1995	2975
SURROGATE RESULTS	--						06/29/1995	2965
Bromofluorobenzene (SURR)	109			% Rec.	8020		06/30/1995	2975

FD Compound quantitated at a 20/ dilution factor

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 6010 (LIQUID)					06/28/1995	jeo	920
Cadmium (ICP)	95.8	0.9584	1.00	mg/L	06/28/1995	jeo	757
Chromium (ICP)	101.3	1.013	1.00	mg/L	06/28/1995	jeo	715
Lead (GFAA)	104.5	0.02613	0.0250	mg/L	06/28/1995	ket	665
Nickel (ICP)	97.8	0.9781	1.00	mg/L	06/28/1995	jeo	713
Zinc (ICP)	96.4	0.9639	1.00	mg/L	06/28/1995	jeo	885
METHOD 5030/8015-M (Shell)							
Purgeable TPH	92.0	0.46	0.50	mg/L	06/29/1995	lss	2965
Benzene	91.6	4.58	5.00	ug/L	06/29/1995	lss	2965
Toluene	88.8	4.44	5.00	ug/L	06/29/1995	lss	2965
Ethylbenzene	99.6	4.98	5.00	ug/L	06/29/1995	lss	2965
Xylenes (Total)	101.3	15.2	15.0	ug/L	06/29/1995	lss	2965
Bromofluorobenzene (SURR)	115.0	115	100	% Rec.	06/29/1995	lss	2965
METHOD 5030/8015-M (Shell)							
Purgeable TPH	104.0	0.52	0.50	mg/L	06/30/1995	aal	2975
Benzene	87.2	4.36	5.00	ug/L	06/30/1995	aal	2975
Toluene	85.8	4.29	5.00	ug/L	06/30/1995	aal	2975
Ethylbenzene	94.0	4.70	5.00	ug/L	06/30/1995	aal	2975
Xylenes (Total)	95.3	14.3	15.0	ug/L	06/30/1995	aal	2975
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	06/30/1995	aal	2975
METHOD 3510/8015-M (Shell)							
Extractable TPH	109.2	1092	1000	mg/L	06/29/1995	tdn	1021

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	93.0	18.6	20.0	ug/L	06/27/1995	ltg	855
Bromoform	95.5	19.1	20.0	ug/L	06/27/1995	ltg	855
Bromomethane	87.5	17.5	20.0	ug/L	06/27/1995	ltg	855
Carbon tetrachloride	93.0	18.6	20.0	ug/L	06/27/1995	ltg	855
Chlorobenzene	90.5	18.1	20.0	ug/L	06/27/1995	ltg	855
Chloroethane	90.0	18.0	20.0	ug/L	06/27/1995	ltg	855
2-Chloroethylvinyl ether	52.0	10.4	20.0	ug/L	06/27/1995	ltg	855
Chloroform	91.0	18.2	20.0	ug/L	06/27/1995	ltg	855
Chloromethane	89.0	17.8	20.0	ug/L	06/27/1995	ltg	855
Dibromochloromethane	91.5	18.3	20.0	ug/L	06/27/1995	ltg	855
1,2-Dichlorobenzene	90.0	18.0	20.0	ug/L	06/27/1995	ltg	855
1,3-Dichlorobenzene	91.5	18.3	20.0	ug/L	06/27/1995	ltg	855
1,4-Dichlorobenzene	91.0	18.2	20.0	ug/L	06/27/1995	ltg	855
Dichlorodifluoromethane	87.0	17.4	20.0	ug/L	06/27/1995	ltg	855
1,1-Dichloroethane	94.0	18.8	20.0	ug/L	06/27/1995	ltg	855
1,2-Dichloroethane	91.5	18.3	20.0	ug/L	06/27/1995	ltg	855
1,1-Dichloroethene	90.5	18.1	20.0	ug/L	06/27/1995	ltg	855
cis-1,2-Dichloroethene	91.0	18.2	20.0	ug/L	06/27/1995	ltg	855
trans-1,2-Dichloroethene	94.0	18.8	20.0	ug/L	06/27/1995	ltg	855
1,2-Dichloropropane	90.5	18.1	20.0	ug/L	06/27/1995	ltg	855
cis-1,3-Dichloropropene	91.0	18.2	20.0	ug/L	06/27/1995	ltg	855
trans-1,3-Dichloropropene	93.5	18.7	20.0	ug/L	06/27/1995	ltg	855
Methylene chloride	89.0	17.8	20.0	ug/L	06/27/1995	ltg	855
1,1,2,2-Tetrachloroethane	103.0	20.6	20.0	ug/L	06/27/1995	ltg	855
Tetrachloroethene	93.0	18.6	20.0	ug/L	06/27/1995	ltg	855
1,1,1-Trichloroethane	90.0	18.0	20.0	ug/L	06/27/1995	ltg	855
1,1,2-Trichloroethane	92.0	18.4	20.0	ug/L	06/27/1995	ltg	855
Trichloroethene	92.0	18.4	20.0	ug/L	06/27/1995	ltg	855
Trichlorofluoromethane	87.0	17.4	20.0	ug/L	06/27/1995	ltg	855
Vinyl chloride	84.0	16.8	20.0	ug/L	06/27/1995	ltg	855
1,4-Difluorobenzene (SURR)	96.0	96	100	% Rec.	06/27/1995	ltg	855
1,4-Dichlorobutane (SURR)	100.0	100	100	% Rec.	06/27/1995	ltg	855

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
Oil & Grease (Total)	ND	5	mg/L	06/27/1995	vah	339
Oil & Grease (Non-Polar)	ND	5	mg/L	06/27/1995	vah	323
Cadmium (ICP)	ND	0.02	mg/L	06/28/1995	jeo	757
Chromium (ICP)	ND	0.02	mg/L	06/28/1995	jeo	715
Lead (GFAA)	ND	0.002	mg/L	06/28/1995	ket	665
Nickel (ICP)	ND	0.05	mg/L	06/28/1995	jeo	713
Zinc (ICP)	ND	0.05	mg/L	06/28/1995	jeo	885
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	06/29/1995	lss	2965
Benzene	ND	0.5	ug/L	06/29/1995	lss	2965
Toluene	ND	0.5	ug/L	06/29/1995	lss	2965
Ethylbenzene	ND	0.5	ug/L	06/29/1995	lss	2965
Xylenes (Total)	ND	0.5	ug/L	06/29/1995	lss	2965
Bromofluorobenzene (SURR)	92		% Rec.	06/29/1995	lss	2965
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	06/30/1995	aal	2975
Benzene	ND	0.5	ug/L	06/30/1995	aal	2975
Toluene	ND	0.5	ug/L	06/30/1995	aal	2975
Ethylbenzene	ND	0.5	ug/L	06/30/1995	aal	2975
Xylenes (Total)	ND	0.5	ug/L	06/30/1995	aal	2975
Bromofluorobenzene (SURR)	99		% Rec.	06/30/1995	aal	2975
METHOD 3510/8015-M (Shell)						
Extractable TPH	ND	0.05	mg/L	06/29/1995	tdn	1020

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	06/27/1995	ltg	855
Bromoform	ND	0.4	ug/L	06/27/1995	ltg	855
Bromomethane	ND	0.4	ug/L	06/27/1995	ltg	855
Carbon tetrachloride	ND	0.4	ug/L	06/27/1995	ltg	855
Chlorobenzene	ND	0.4	ug/L	06/27/1995	ltg	855
Chloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
2-Chloroethylvinyl ether	ND	1.0	ug/L	06/27/1995	ltg	855
Chloroform	ND	0.4	ug/L	06/27/1995	ltg	855
Chloromethane	ND	0.4	ug/L	06/27/1995	ltg	855
Dibromochloromethane	ND	0.4	ug/L	06/27/1995	ltg	855
1,2-Dichlorobenzene	ND	0.4	ug/L	06/27/1995	ltg	855
1,3-Dichlorobenzene	ND	0.4	ug/L	06/27/1995	ltg	855
1,4-Dichlorobenzene	ND	0.4	ug/L	06/27/1995	ltg	855
Dichlorodifluoromethane	ND	0.4	ug/L	06/27/1995	ltg	855
1,1-Dichloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
1,2-Dichloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
1,1-Dichloroethene	ND	0.4	ug/L	06/27/1995	ltg	855
cis-1,2-Dichloroethene	ND	0.4	ug/L	06/27/1995	ltg	855
trans-1,2-Dichloroethene	ND	0.4	ug/L	06/27/1995	ltg	855
1,2-Dichloropropane	ND	0.4	ug/L	06/27/1995	ltg	855
cis-1,3-Dichloropropene	ND	0.4	ug/L	06/27/1995	ltg	855
trans-1,3-Dichloropropene	ND	0.4	ug/L	06/27/1995	ltg	855
Methylene chloride	ND	10	ug/L	06/27/1995	ltg	855
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
Tetrachloroethene	ND	0.4	ug/L	06/27/1995	ltg	855
1,1,1-Trichloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
1,1,2-Trichloroethane	ND	0.4	ug/L	06/27/1995	ltg	855
Trichloroethene	ND	0.4	ug/L	06/27/1995	ltg	855
Trichlorofluoromethane	ND	0.4	ug/L	06/27/1995	ltg	855
Vinyl chloride	ND	0.4	ug/L	06/27/1995	ltg	855
1,4-Difluorobenzene (SURR)	99		% Rec.	06/27/1995	ltg	855
1,4-Dichlorobutane (SURR)	98		% Rec.	06/27/1995	ltg	855

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
Oil & Grease (Total)	97.6	91.4	6.6	107.4	ND	104.8	114.5	mg/L	06/27/1995	339	244324
Oil & Grease (Non-Polar)	97.6	91.4	6.6	107.4	ND	104.8	114.5	mg/L	06/27/1995	323	244324
METHOD 6010 (LIQUID)					--				06/28/1995	920	244515
Cadmium (ICP)	92.3	92.8	0.5	1.00	ND	0.9225	0.9285	mg/L	06/28/1995	757	244515
Chromium (ICP)	99.1	99.3	0.2	1.00	ND	0.9910	0.9933	mg/L	06/28/1995	715	244515
Lead (GFAA)	101.1	99.7	1.3	0.0250	ND	0.02528	0.02493	mg/L	06/28/1995	665	244519
Nickel (ICP)	97.2	97.0	0.2	1.00	ND	0.9724	0.9696	mg/L	06/28/1995	713	244515
Zinc (ICP)	91.5	90.8	0.8	1.00	0.09	1.005	0.9976	mg/L	06/28/1995	885	244515
METHOD 5030/8015-M (Shell)											244656
Purgeable TPH	102.0	100.0	2.0	0.50	ND	0.51	0.50	mg/L	06/29/1995	2965	244656
Benzene	104.4	97.4	6.8	9.96	ND	10.4	9.70	ug/L	06/29/1995	2965	244656
Toluene	107.1	103.4	3.5	32.5	ND	34.8	33.6	ug/L	06/29/1995	2965	244656
METHOD 3510/8015-M (Shell)											244797
Extractable TPH	90.5	88.5	2.2	2.00	ND	1.81	1.77	mg/L	06/29/1995	1020	244797

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 8010 (GC,Liquid)											244737
Chlorobenzene	89.0	101.0	12.5	20.0	ND	17.8	20.2	ug/L	06/27/1995	855	244737
1,1-Dichloroethene	90.0	103.0	13.4	20.0	ND	18.0	20.6	ug/L	06/27/1995	855	244737
Trichloroethene	88.5	98.0	10.2	20.0	ND	17.7	19.6	ug/L	06/27/1995	855	244737

Ref: Shell 2101 Park Blvd., Oakland, CA./950622-V-2

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	Duplicate LCS % Recovery	RPD	LCS Amount Found	Duplicate LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch
Oil & Grease (Total)	92.8			108.5		116.9	mg/L	06/27/1995	vah	339
Oil & Grease (Non-Polar)	88.9			106.7		120	mg/L	06/27/1995	vah	323
Cadmium (ICP)	93.5			0.9352		1.00	mg/L	06/28/1995	jeo	757
Chromium (ICP)	100.0			1.000		1.00	mg/L	06/28/1995	jeo	715
Lead (GFAA)	105.3			0.02633		0.0250	mg/L	06/28/1995	ket	665
Nickel (ICP)	95.5			0.9549		1.00	mg/L	06/28/1995	jeo	713
Zinc (ICP)	92.1			0.9210		1.00	mg/L	06/28/1995	jeo	885
METHOD 3510/8015-M (Shell)										
Extractable TPH	58.2			0.582		1.00	mg/L	06/29/1995	tdn	1020

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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.

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

COOLER RECEIPT FORM

Project: 210 Pond Blvd. / 950622-V2 Log No: 7323
Cooler received on: 6/29/95 and checked on 6/29/95 by
(signature)

Were custody papers present?.....~~YES~~ NO

Were custody papers properly filled out?.....~~YES~~ NO

Were the custody papers signed?.....~~YES~~ NO

Was sufficient ice used?.....~~YES~~ NO TEMP: 1.0°C

Did all bottles arrive in good condition (unbroken)?.....~~YES~~ NO

Did bottle labels match COC?.....~~YES~~ NO

Were proper bottles used for analysis indicated?.....~~YES~~ NO

Correct preservatives used?.....~~YES~~ NO

VOA vials checked for headspace bubbles?.....~~YES~~ NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
TB	1

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)