



KAPREALIAN ENGINEERING  
INCORPORATED

2/3/19/96  
Reviewed

February 19, 1996

Alameda County Health Care Services  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

Attention: Ms. Amy Leech

RE: Berkeley Land Company  
23555 Saklan Road  
Hayward, California

Dear Ms. Leech:

Per the request of Mr. Rick Montesano of Paradiso Mechanical, Inc., enclosed please find our report dated February 16, 1996, for the above referenced site.

Should you have any questions, please feel free to call our office at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey  
Executive Secretary

jad\17

Enclosure

cc: Rick Montesano, Paradiso Mechanical, Inc.

96 FEB 21 PM 1:45

KAPREALIAN ENGINEERING  
I N C O R P O R A T E D

KEI-P88-1110.QR10  
February 16, 1996

Berkeley Land Company  
4550 San Pablo Avenue  
Emeryville, CA 94608

Attention: Mr. Norm Alberts

RE: Quarterly Report  
Berkeley Land Company  
23555 Saklan Road  
Hayward, California

Dear Mr. Alberts:

This Kaprealian Engineering, Inc. (KEI) report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced property. All of the wells are currently monitored and sampled on a quarterly basis. This report covers the work performed in January of 1996.

BACKGROUND

The subject property occupies the northeast corner of the intersection of Saklan Road and Middle Lane in Hayward, California, and is situated approximately two miles from the shores of the San Francisco Bay. The property is located in a mixed light industrial and residential area. A Location Map is attached to this report. A large part of the property is used by Quality Tow, an automobile towing operation, for the storage of used vehicles.

In June of 1988, an underground fuel storage tank was reportedly removed from the property. On February 27, 1990, and March 1, 1990, two exploratory borings were drilled at the property. During the drilling of the borings, a six-inch diameter water well was discovered adjacent to the former underground fuel storage tank pit. On May 30, 1990, four exploratory borings were drilled and five monitoring wells installed at the property. KEI's initial work at the property was conducted on February 25, 1993, when the five existing monitoring wells were monitored and sampled. On June 1 and 2, 1993, seven exploratory borings, in conjunction with a Hydropunch study, were drilled at the property. A total of 13 borings have been drilled and five monitoring wells have been installed at the property.

A site description, detailed background information including a summary of all of the soil and ground water subsurface investigation/remediation work conducted to date, hydrogeologic conditions,

and tables that summarize all of the soil and ground water sample analytical results are presented in KEI's report (KEI-P88-1110.R2) dated July 12, 1993.

#### RECENT FIELD ACTIVITIES

The five monitoring wells (MW1 through MW5) and the water well (WW1) were monitored and sampled once during the quarter. During monitoring, the wells were checked for depth to water and the presence of free product. Prior to sampling, the wells were also checked for the presence of a sheen. No free product or sheen was noted in any of the wells during the recent quarter. The monitoring data collected during the recent quarter are summarized in Table 1.

Ground water samples were collected from all of the wells on January 17, 1996. Prior to sampling, the wells were each purged of between 18.5 and 169.5 gallons of water by the use of a surface pump. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded and are presented in Table 2. Once the field parameters were observed to stabilize and a minimum of approximately four casing volumes had been removed from each well, water samples were then collected by the use of a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

#### HYDROLOGY

The measured depth to ground water at the property on January 17, 1996, ranged between 11.20 and 13.26 feet. The water levels in the wells have shown net increases ranging from 0.53 to 1.12 feet since October 19, 1995. Based on the water level data gathered on January 17, 1996, the ground water flow direction appeared to be predominantly to the west-southwest, as shown on the attached Potentiometric Surface Map, Figure 1. The ground water flow direction has been predominantly to the southwest since the inception of the monitoring program in May of 1993 (ten consecutive quarters). The average hydraulic gradient at the property on January 17, 1996, was approximately 0.003.

#### ANALYTICAL RESULTS

The ground water samples collected during the quarter were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed

for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, TPH as diesel by EPA method 3510/modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. Ground water samples collected from MW2 and WW1 were also analyzed for EPA method 8270 constituents.

The analytical results of all of the ground water samples collected from the wells to date are summarized in Table 3. The concentrations of TPH as gasoline, benzene, and TPH as diesel detected in the ground water samples collected on January 17, 1996, are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

Free product has historically been detected in only one well at the site, WW1. A "fingerprint" analysis conducted on a sample of this product was determined to be diesel fuel. However, free product has not been detected at the site for the previous eight quarters (two hydrologic cycles).

In addition, BTEX constituents have been non-detectable in all of the wells at the site for the previous eight quarters (two hydrologic cycles), except for toluene and xylenes, which were detected in WW1 at concentrations of 1.0  $\mu\text{g/L}$  and 2.9  $\mu\text{g/L}$ , respectively, during the April 21, 1995 sampling event. However, as shown in the U.S. Environmental Protection Agency Drinking Water Standards and Health Advisories Table, the California Department of Health Services (DOHS) maximum contaminant levels (MCL) for toluene and (total) xylenes are 150  $\mu\text{g/L}$  and 1,750  $\mu\text{g/L}$ , respectively. These constituents are significantly below their respective MCL's.

As previously noted, the primary constituent of concern at the subject site is diesel. On December 7, 1995, KEI contacted Ms. Amy Leech of the Alameda County Health Care Services (ACHCS) Agency to discuss the status of the site. Ms. Leech noted that a risk-based closure analysis (RBCA) may be warranted at this site. She also stated that a RBCA for a diesel-related site would include concentration action levels for the constituents naphthalene and benzo(a)pyrene. Therefore, during the recent quarterly sampling event, ground water samples collected from WW1 and MW3 were also analyzed for EPA method 8270 constituents. The analytical results of these two samples indicated non-detectable concentrations of all of the EPA method 8270 constituents (including naphthalene and benzo(a)pyrene).

Based on the above discussion, in light of the fact that the downgradient vicinity of the site is commercially developed, and based on no known beneficial use of the shallow-zone aquifer at and in the vicinity of the site, KEI recommends that Berkeley Land Company request formal site closure for this property. If site closure is approved by the ACHCS, KEI will prepare a work plan for the proper destruction of all of the wells.

#### DISTRIBUTION

A copy of this report should be sent to Ms. Amy Leech of the ACHCS, and to the Regional Water Quality Control Board, San Francisco Bay Region.

#### LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed these data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you should have any questions regarding this report, please do not hesitate to call at (510) 602-5100.

Sincerely,

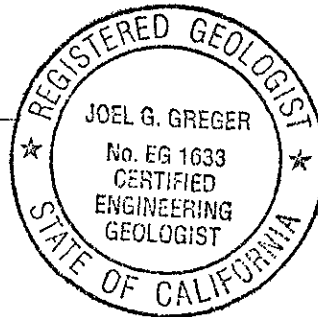
Kaprealian Engineering, Inc.



Armond A. Balaian  
Staff Engineer



Joel G. Greger, C.E.G.  
Senior Engineering Geologist



License No. EG 1633  
Exp. Date 8/31/96



Robert H. Kezerian  
Project Manager

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Attachments: Tables 1, 2 & 3  
Location Map  
Potentiometric Surface Map - Figure 1  
Concentrations of Petroleum Hydrocarbons - Figure 2  
Laboratory Analyses  
Chain of Custody documentation

TABLE 1

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)♦</u>	<u>Total Well Depth (feet)♦</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>	<u>Product Purged (ounces)</u>
<b>(Monitored and Sampled on January 17, 1996)</b>							
MW1	20.85	12.91	24.75	0	No	31	0
MW2	21.37	12.96	26.58	0	No	27	0
MW3	20.86	12.77	19.84	0	No	18.5	0
MW4	20.80	11.20	26.27	0	No	39.5	0
MW5	21.18	11.46	20.27	0	No	23	0
WW1	NA	13.26	42.27	0	No	169.5	0
<b>(Monitored and Sampled on October 19, 1995)</b>							
MW1	20.18	13.58	25.74	0	No	32	0
MW2	20.58	13.75	20.15	0	No	17	0
MW3	20.33	13.30	27.07	0	No	36	0
MW4	20.05	11.95	26.80	0	No	39	0
MW5	20.06	12.58	20.85	0	No	22	0
WW1	NA	13.35	41.00	0	No	162	0
<b>(Monitored and Sampled on July 26, 1995)</b>							
MW1	21.11	12.65	24.77	0	No	32	0
MW2	21.53	12.80	26.70	0	No	37	0
MW3	21.08	12.55	19.85	0	No	20	0
MW4	20.97	11.03	26.30	0	No	40	0
MW5	21.34	11.30	20.28	0	No	24	0
WW1	NA	13.00	42.40	0	No	180	0
<b>(Monitored and Sampled on April 21, 1995)</b>							
MW1	22.28	11.48	24.78	0	No	35	0
MW2	22.86	11.47	26.58	0	No	40	0
MW3	22.29	11.34	19.84	0	No	21	0
MW4	22.16	9.84	26.28	0	No	43	0
MW5	22.62	10.02	20.24	0	No	27	0
WW1	NA	11.81	45.02	0	No	194	<1*

TABLE 1 (Continued)  
SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Well Casing Elevation (feet)**</u>
MW1	33.76
MW2	34.33
MW3	33.63
MW4	32.00
MW5	32.64
WW1	NA

NA = Not available.

◆ The depth to water level and total well depth measurements were taken from the top of the well casings.

\* Product collected in skimmer only.

\*\* The elevations of the top of the well casing are relative to Mean Sea Level (MSL), per the Alameda County Benchmark located at Eden Avenue and West Street (elevation = 33.16 feet MSL).



KEI-P88-1110.QR10  
 February 16, 1996

TABLE 2

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES  
 IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on January 17, 1996)

<u>Well #</u>	<u>Gallons per Casing Volume</u>	<u>Time</u>	<u>Gallons Purged</u>	<u>Casing Volumes Purged</u>	<u>Temperature (°F)</u>	<u>Conductivity ([μmhos/cm]x100)</u>	<u>pH</u>
MW1	7.70	9:30	0	0	61.4	3.15	7.92
			8	1.04	63.5	3.27	7.68
			16	2.08	64.1	3.39	7.50
			24	3.12	64.3	3.50	7.41
		9:50	31	4.03	64.4	3.57	7.36
MW2	8.85	10:30	0	0	63.2	3.14	7.81
			7	0.79	64.3	3.29	7.60
			14	1.58	64.5	3.37	7.51
			21	2.37	64.7	3.40	7.43
		10:47	27	3.05	64.9	3.46	7.39
MW3	4.60	13:17	0	0	63.8	3.23	7.93
			4.5	0.98	64.6	3.10	7.74
			9	1.96	64.9	3.39	7.59
			13.5	2.93	65.1	3.44	7.52
		13:32	18.5	4.02	65.3	3.50	7.47
MW4	9.80	12:20	0	0	63.6	3.18	7.71
			10	1.02	64.2	3.30	7.53
			20	2.04	64.5	3.33	7.42
			30	3.06	64.8	3.39	7.36
		12:43	39.5	4.03	65.0	3.42	7.32
MW5	5.73	11:25	0	0	63.8	3.37	7.73
			5.5	0.96	64.6	3.45	7.51
			11	1.92	65.2	3.60	7.40
			17	2.97	65.4	3.64	7.36
		11:41	23	4.01	65.5	3.62	7.31
WW1	42.35	14:07	0	0	64.0	3.51	7.75
			42.5	1.00	64.6	3.37	7.51
			85	2.01	65.4	3.38	7.40
			127.5	3.01	65.1	3.29	7.35
		15:30	169.5	4.00	65.2	3.21	7.31

KEI-P88-1110.QR10  
February 16, 1996

TABLE 3

SUMMARY OF LABORATORY ANALYSES  
WATER

<u>Date</u>	<u>Sample Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
1/17/96	MW1	52♦♦	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3▼	120	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1▼	8,400	ND	ND	ND	ND	ND
10/19/95	MW1	ND	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	77	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1	560	ND	ND	ND	ND	ND
7/26/95	MW1	ND	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	ND	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1	11,000	3,500*	ND	ND	ND	ND
4/21/95	MW1	ND	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	75	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1	3,100	86	ND	1.0	ND	2.9
1/18/95	MW1	ND	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	82	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1	30,000	410*	ND	ND	ND	ND
10/18/94	MW1	ND	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	120	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
	WW1	2,400	180*	ND	ND	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES  
WATER

<u>Date</u>	<u>Sample Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	
7/13/94++ &	MW1	66♦♦	ND	ND	ND	ND	ND	
	MW2	67♦♦	ND	ND	ND	ND	ND	
8/15/94	MW3	92♦♦	ND	ND	ND	ND	ND	
	MW4	64♦♦	ND	ND	ND	ND	ND	
	MW5	62♦♦	ND	ND	ND	ND	ND	
	WW1	9,200	1,600*	ND	ND	ND	ND	
1/20/94	MW1	73	ND	ND	ND	ND	ND	
	MW2	ND	ND	ND	ND	ND	ND	
	MW3	130	ND	ND	ND	ND	ND	
	MW4	ND	ND	ND	ND	ND	ND	
	MW5	340♦	ND	ND	ND	ND	ND	
	WW1	190,000	34,000*	ND	ND	ND	ND	
10/28/93	MW1	120♦	200*	1.8	ND	ND	ND	
	MW2	ND	ND	ND	ND	ND	ND	
	MW3	170	ND	ND	ND	ND	1.4	
	MW4	ND	ND	ND	ND	ND	ND	
	MW5	ND	ND	ND	ND	ND	ND	
	WW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
7/12/93+ &	MW1	200♦	150	1.1	ND	ND	0.51	
	MW2	ND	ND	ND	ND	ND	ND	
8/20/93	MW3	ND	ND	ND	ND	ND	ND	
	MW4	ND	ND	ND	ND	ND	ND	
	MW5	ND	ND	ND	ND	ND	ND	
	WW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
2/25/93	MW1	5,900♦	4,600**	45	18	ND	750	
	MW2	ND	ND	ND	ND	ND	ND	
	MW3	200	ND	ND	ND	ND	ND	
	MW4	ND	ND	ND	ND	ND	ND	
	MW5	ND	ND	ND	ND	ND	ND	
	WW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						

♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

♦♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

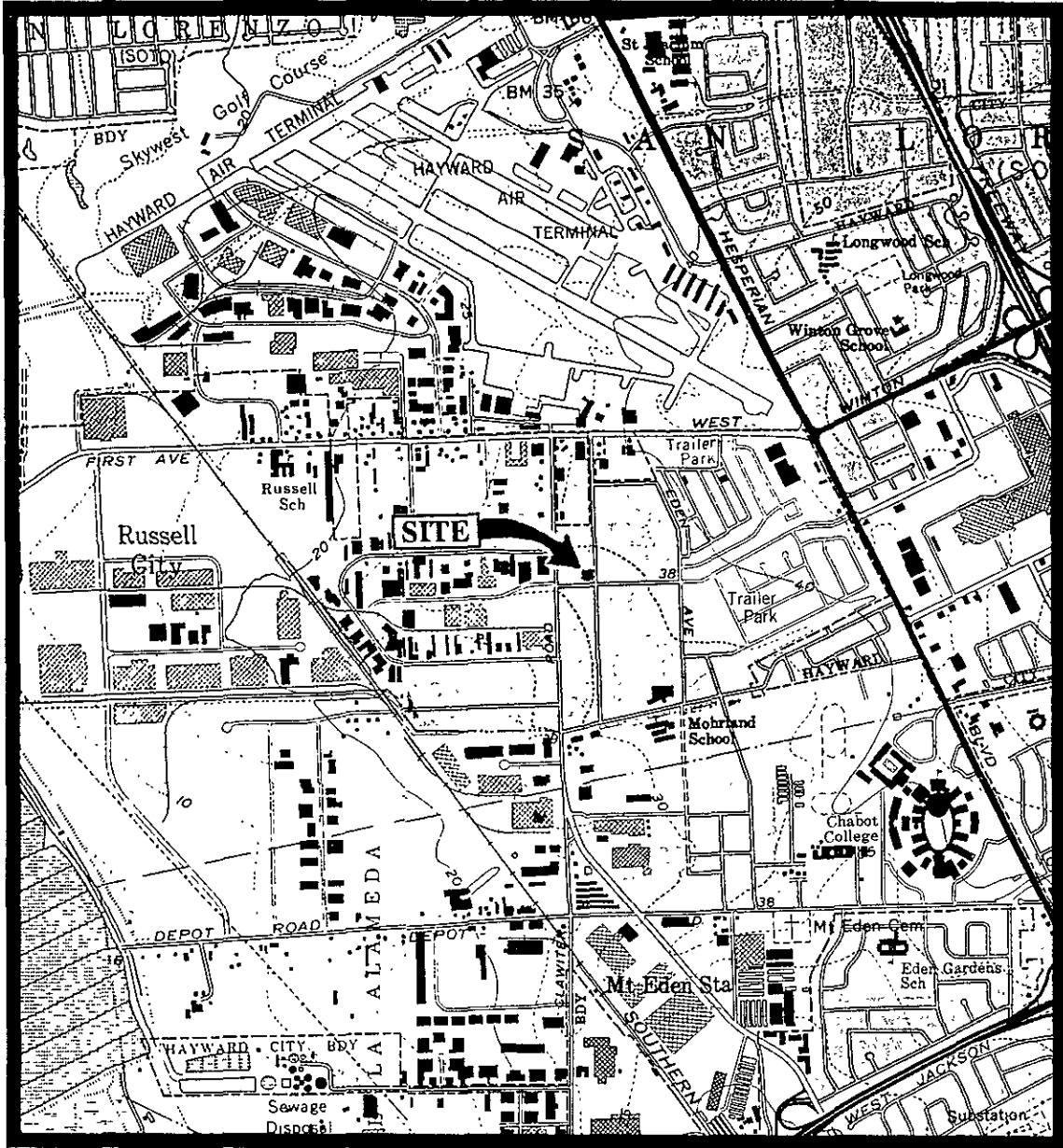
TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES  
WATER

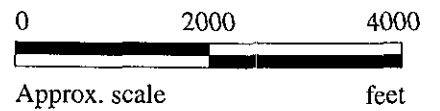
- ▼ All EPA method 8270 (GC/MS) constituents were non-detectable.
- \* Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- \*\* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- + Samples collected on July 12, 1993, were analyzed for TPH as gasoline and BTEX. Samples collected on August 20, 1993, were analyzed for TPH as diesel.
- ++ Samples collected on July 13, 1994, were analyzed for TPH as gasoline and BTEX, and for TPH as diesel for well WW1. Samples collected on August 15, 1994, were analyzed for TPH as diesel for wells MW1 through MW5.

ND = Non-detectable.

Results are in micrograms per liter ( $\mu\text{g/L}$ ), unless otherwise indicated.



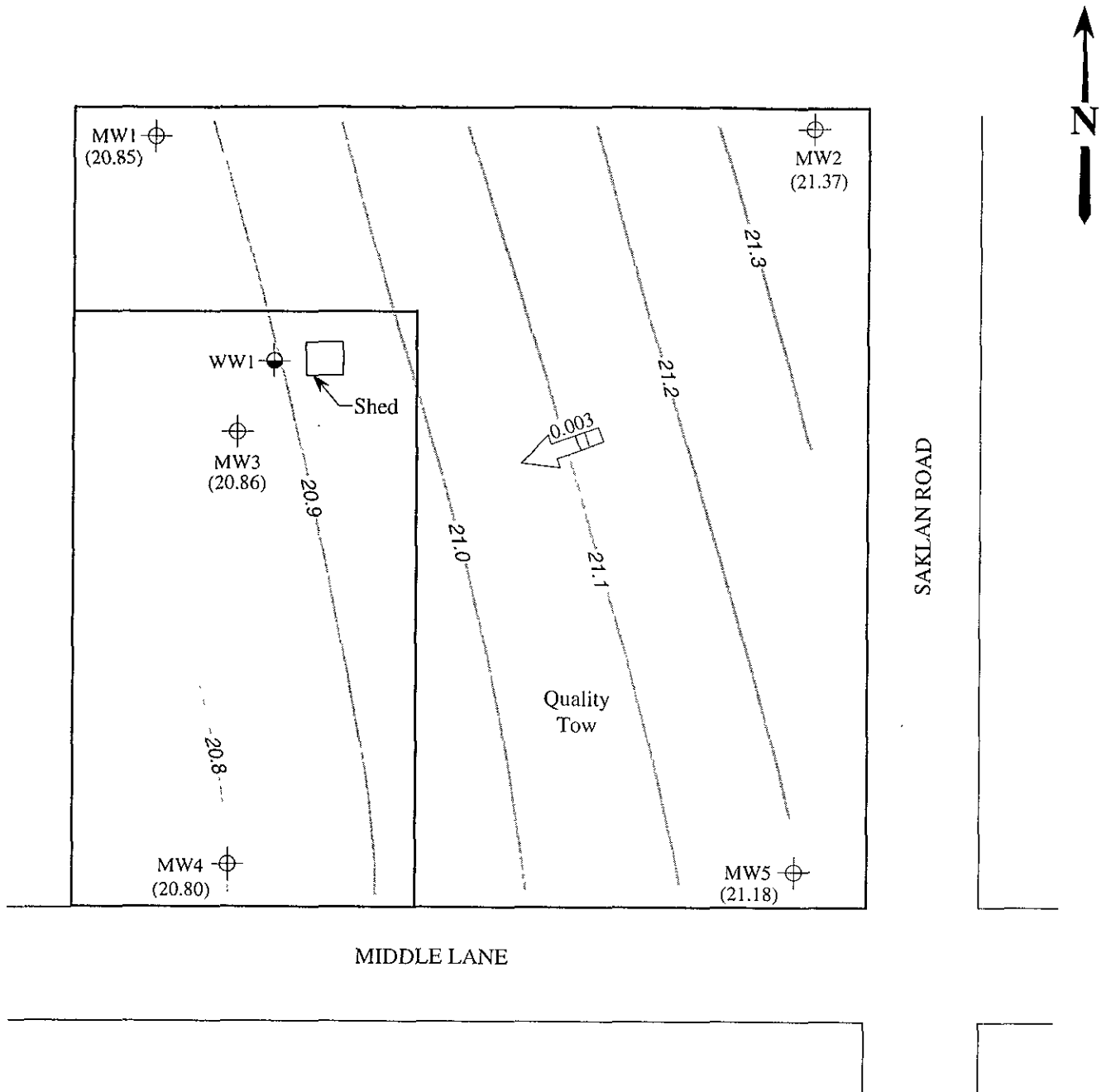
Base modified from 7.5 minute U.S.G.S.  
Hayward & San Leandro Quadrangles  
(both photorevised 1980)






**KEE**  
KAPREALIAN ENGINEERING  
INCORPORATED

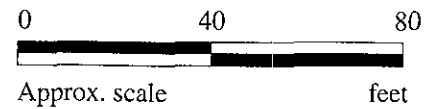
BERKELEY LAND CO.  
23555 SAKLAN ROAD  
HAYWARD, CALIFORNIA

LOCATION  
MAP



**LEGEND**

-  Monitoring well
-  Water well
- ( ) Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow with approximate hydraulic gradient
- - - - Contours of ground water elevation

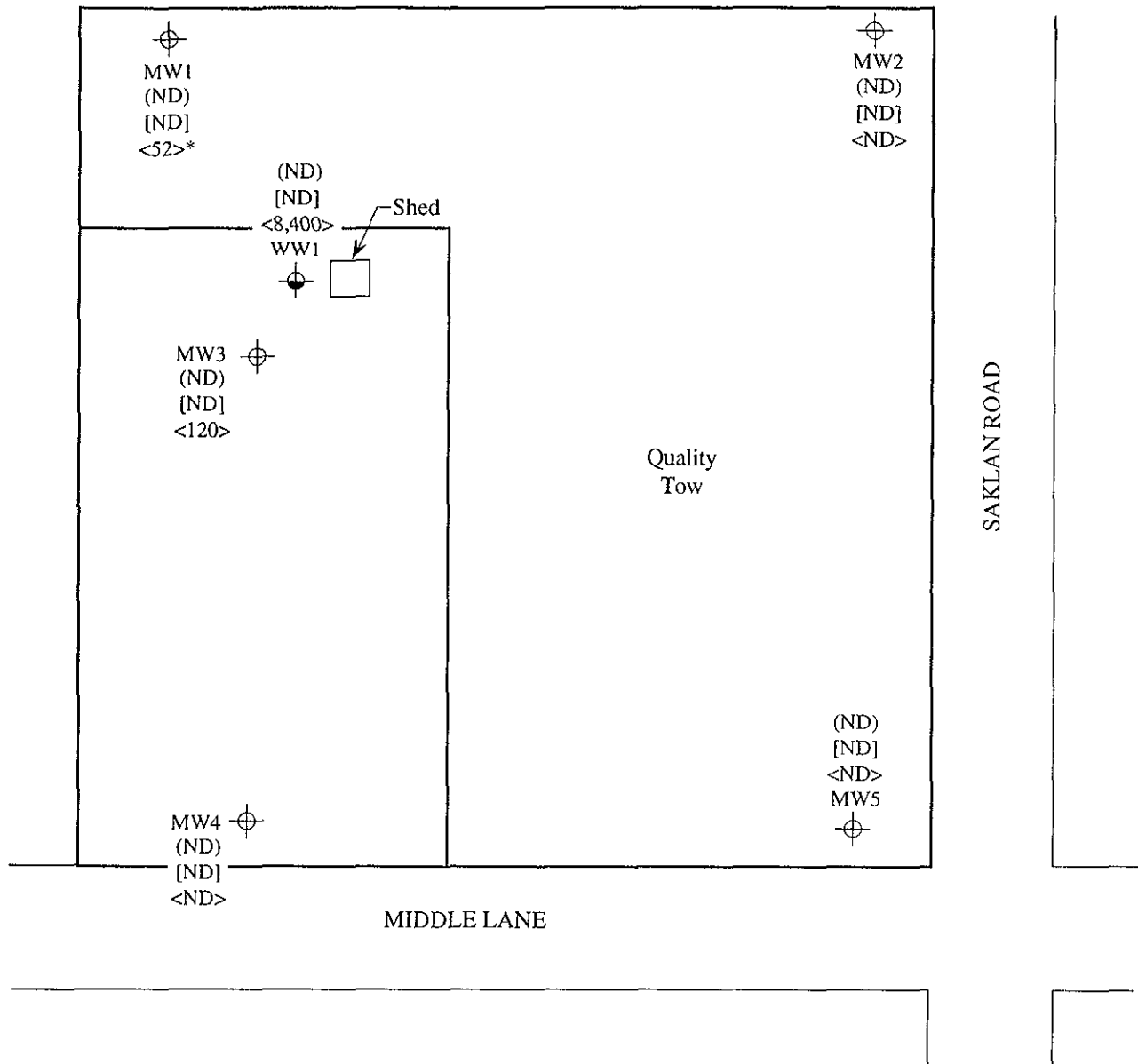


**POTENTIOMETRIC SURFACE MAP FOR THE JANUARY 17, 1996 MONITORING EVENT**

  
**KAPREALIAN ENGINEERING  
 INCORPORATED**

**BERKELEY LAND CO.  
 23555 SAKLAN ROAD  
 HAYWARD, CALIFORNIA**

**FIGURE  
 1**



**LEGEND**

⊕ Monitoring well

⊙ Water well

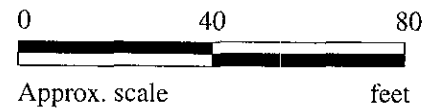
( ) Concentration of TPH as gasoline in µg/L

[ ] Concentration of benzene in µg/L

< > Concentration of TPH as diesel in µg/L

ND Non-detectable

\* The lab reported that the hydrocarbons detected did not appear to be diesel.



**PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON JANUARY 17, 1996**

**KAPREALIAN ENGINEERING  
INCORPORATED**

**BERKELEY LAND CO.  
23555 SAKLAN ROAD  
HAYWARD, CALIFORNIA**

**FIGURE  
2**



MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Matrix Descript: Water  
Analysis Method: EPA 5030/8015 Mod./8020  
First Sample #: 601-1092

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Reported: Feb 2, 1996

**TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION**

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L
601-1092	MW-1	ND	ND	ND	ND	ND
601-1093	MW-2	ND	ND	ND	ND	ND
601-1094	MW-3	ND	ND	ND	ND	ND
601-1095	MW-4	ND	ND	ND	ND	ND
601-1096	MW-5	ND	ND	ND	ND	ND
601-1097	WW-1	ND	ND	ND	ND	ND

<b>Detection Limits:</b>	<b>50</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>
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Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp  
Project Manager







MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Matrix Descript: Water  
Analysis Method: EPA 5030/8015 Mod./8020  
First Sample #: 601-1092

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Reported: Feb 2, 1996

**TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION**

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
601-1092	MW-1	--	1.0	1/27/96	HP-2	109
601-1093	MW-2	--	1.0	1/27/96	HP-2	107
601-1094	MW-3	--	1.0	1/27/96	HP-2	104
601-1095	MW-4	--	1.0	1/27/96	HP-2	110
601-1096	MW-5	--	1.0	1/27/96	HP-2	109
601-1097	WW-1	--	1.0	1/27/96	HP-2	109

**SEQUOIA ANALYTICAL, #1271**

Signature on File

Alan B. Kemp  
Project Manager





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd, Hayward  
Sample Matrix: Water  
Analysis Method: EPA 3510/8015 Mod.  
First Sample #: 601-1092

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Reported: Feb 2, 1996

**TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS**

Analyte	Reporting Limit µg/L	Sample I.D. 601-1092 MW-1*	Sample I.D. 601-1093 MW-2	Sample I.D. 601-1094 MW-3	Sample I.D. 601-1095 MW-4	Sample I.D. 601-1096 MW-5	Sample I.D. 601-1097 WW-1
Extractable Hydrocarbons	50	52	N.D.	120	N.D.	N.D.	8400
Chromatogram Pattern:		Unidentified Hydrocarbons >C16	--	Diesel	--	--	Diesel

**Quality Control Data**

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	1/22/96	1/22/96	1/22/96	1/22/96	1/22/96	1/22/96
Date Analyzed:	1/23/96	1/23/96	1/23/96	1/23/96	1/23/96	1/23/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

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

**SEQUOIA ANALYTICAL, #1271**

Signature on File  
  
Alan B. Kemp  
Project Manager

Please Note:  
\*This sample does not appear to contain diesel. "Unidentified Hydrocarbons >C16" refers to unidentified peaks in the total oil and grease range.





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Sample Descript: Water, MW-3  
Analysis Method: EPA 8270  
Lab Number: 601-1094

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Extracted: Jan 19, 1996  
Analyzed: Jan 23, 1996  
Reported: Feb 2, 1996

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	50	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Sakian Rd., Hayward  
Sample Descript: Water, MW-3  
Analysis Method: EPA 8270  
Lab Number: 601-1094

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Extracted: Jan 19, 1996  
Analyzed: Jan 23, 1996  
Reported: Feb 2, 1996

**SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)**

Analyte	Detection Limit µg/L	Sample Results µg/L
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	N.D.
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodimethylamine.....	2.0	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

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

**SEQUOIA ANALYTICAL, #1271**

Signature on File

Alan B. Kemp  
Project Manager





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Sample Descript: Water, WW-1  
Analysis Method: EPA 8270  
Lab Number: 601-1097

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Extracted: Jan 19, 1996  
Analyzed: Jan 23, 1996  
Reported: Feb 2, 1996

**SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)**

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	50	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Sample Descript: Water, WW-1  
Analysis Method: EPA 8270  
Lab Number: 601-1097

Sampled: Jan 17, 1996  
Received: Jan 17, 1996  
Extracted: Jan 19, 1996  
Analyzed: Jan 23, 1996  
Reported: Feb 2, 1996

**SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)**

Analyte	Detection Limit µg/L	Sample Results µg/L
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	N.D.
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodimethylamine.....	2.0	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

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

**SEQUOIA ANALYTICAL, #1271**

Signature on File

Aian B. Kemp  
Project Manager





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Matrix: Liquid

QC Sample Group: 6011092-097

Reported: Feb 2, 1996

**QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
<b>Method:</b>	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
<b>Analyst:</b>	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	J. Dinsay

<b>MS/MSD Batch#:</b>	6010965	6010965	6010965	6010965	BLK012296
<b>Date Prepared:</b>	1/27/96	1/27/96	1/27/96	1/27/96	1/22/96
<b>Date Analyzed:</b>	1/27/96	1/27/96	1/27/96	1/27/96	1/22/96
<b>Instrument I.D.#:</b>	HP-2	HP-2	HP-2	HP-2	HP-3A
<b>Conc. Spiked:</b>	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
<b>Matrix Spike % Recovery:</b>	110	105	110	107	80
<b>Matrix Spike Duplicate % Recovery:</b>	115	110	110	112	77
<b>Relative % Difference:</b>	4.4	4.7	0.0	4.6	4.3

<b>LCS Batch#:</b>	1LCS012796	1LCS012796	1LCS012796	1LCS012796	LCS012296
<b>Date Prepared:</b>	1/27/96	1/27/96	1/27/96	1/27/96	1/22/96
<b>Date Analyzed:</b>	1/27/96	1/27/96	1/27/96	1/27/96	1/22/96
<b>Instrument I.D.#:</b>	HP-2	HP-2	HP-2	HP-2	HP-3A
<b>LCS % Recovery:</b>	120	115	120	120	70

<b>% Recovery Control Limits:</b>	71-133	72-128	72-130	71-120	50-150
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**Please Note:**  
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL, #1271**

Signature on File  
Alan B. Kemp  
Project Manager





MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Matrix: Liquid

QC Sample Group: 6011092-097

Reported: Feb 2, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	T. Granicher	T. Granicher	T. Granicher	T. Granicher	T. Granicher	T. Granicher

MS/MSD Batch#:	MS011996	MS011996	MS011996	MS011996	MS011996	MS011996
Date Prepared:	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96
Date Analyzed:	1/24/96	1/24/96	1/24/96	1/24/96	1/24/96	1/24/96
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	200 µg/L	200 µg/L	100 µg/L	100 µg/L	100 µg/L	200 µg/L
Matrix Spike % Recovery:	52	81	66	80	72	84
Matrix Spike Duplicate % Recovery:	49	77	66	74	70	81
Relative % Difference:	5.9	5.1	0.0	7.8	2.8	3.6

LCS Batch#:	LCS011996	LCS011996	LCS011996	LCS011996	LCS011996	LCS011996
Date Prepared:	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96
Date Analyzed:	1/23/96	1/23/96	1/23/96	1/23/96	1/23/96	1/23/96
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	46	73	50	72	52	69

% Recovery Control Limits:	12-89	27-123	36-97	41-116	39-98	23-97
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SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp  
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.







MPDS Services  
2401 Stanwell Dr., Ste. 300  
Concord, CA 94520  
Attention: Jarrel Crider

Client Project ID: Berkeley Land, 23555 Saklan Rd., Hayward  
Matrix: Liquid

QC Sample Group: 6011092-097

Reported: Feb 2, 1996

**QUALITY CONTROL DATA REPORT**

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
<b>Method:</b>	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
<b>Analyst:</b>	T. Granicher	T. Granicher	T. Granicher	T. Granicher	T. Granicher

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
<b>Batch#:</b>	MS011996	MS011996	MS011996	MS011996	MS011996
<b>Date Prepared:</b>	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96
<b>Date Analyzed:</b>	1/24/96	1/24/96	1/24/96	1/24/96	1/24/96
<b>Instrument I.D.#:</b>	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
<b>Conc. Spiked:</b>	100 µg/L	200 µg/L	100 µg/L	200 µg/L	100 µg/L
<b>Matrix Spike % Recovery:</b>	80	39	76	61	78
<b>Matrix Spike Duplicate % Recovery:</b>	76	38	72	62	76
<b>Relative % Difference:</b>	5.1	2.6	5.4	1.6	2.6

LCS Batch#:	LCS011996	LCS011996	LCS011996	LCS011996	LCS011996
<b>Date Prepared:</b>	1/19/96	1/19/96	1/19/96	1/19/96	1/19/96
<b>Date Analyzed:</b>	1/24/96	1/24/96	1/24/96	1/24/96	1/24/96
<b>Instrument I.D.#:</b>	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
<b>LCS % Recovery:</b>	66	29	66	54	72

% Recovery Control Limits:	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
	46-118	10-80	24-96	9-103	26-127

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

**SEQUOIA ANALYTICAL, #1271**

Signature on File  
Alan B. Kemp  
Project Manager



**CHAIN OF CUSTODY**

0001292

SAMPLER		WITNESSING AGENCY		GENERAL INFORMATION				ANALYSES REQUESTED							TURN AROUND TIME:	
VARTKES TASHDJIAN				S/S # <u>Good</u> CITY: <u>Hayward</u> ADDRESS: <u>23555 Saklan Rd.</u>				TPH-GAS BTEX	TPH- DIESEL	TOG	8010	8270 EPA				Regular
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION									
MW 1	1/17/96	10:08 AM	X	X		2 VOA's 1 Amber.	Well	X	X						6011092 A-C	
MW 2	"	11:05 AM	X	X		"	"	X	X						6011093 ↓	
MW 3	"	1:49 PM	X	X		2 VOA's 2 Amber's	"	X	X			X			6011094 A-D	
MW 4	"	12:55 PM	X	X		2 VOA's 1 Amber	"	X	X						6011095 A-C	
MW 5	"	12:00 NOON	X	X		"	"	X	X						6011096 ↓	
WW 1	"	3:45 PM	X	X		2 VOA's 2 Amber's	"	X	X			X			6011097 A-D	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:			DATE/TIME		THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:							
Vartkes Ashdjan		1/17/96 4:30 PM		[Signature]			1/17/96 1630		1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>yes</u>							
[Signature]				[Signature]					2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>yes</u>							
[Signature]				[Signature]					3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>no</u>							
[Signature]				[Signature]					4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>yes</u>							
[Signature]				[Signature]			1-18-96 16:30		SIGNATURE: [Signature] TITLE: <u>Squarai</u> DATE: <u>1/17/96</u>							

te: All water containers to be sampled for TPHG/BTEX, 8010 & B240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are