Ryder Commercial Leasing & Services
11200 Hempstead Hwy.
Houston, Texas 77092

RO 830
CL

93 OCT 18 PM 3:47

October 12, 1993

RYDER

Mr. Barney Chan
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

SUBJECT: RYDER TRUCK RENTAL FACILITY LC-0227
8001 Oakport Road
Oakland, California

#572

Dear Mr. Chan:

Enclosed please find a copy of the Quarterly Monitoring report prepared by Hydro-Environmental Technologies, Inc. (HETI) on the subject property. I trust this information meets your needs. If you have any questions regarding this site or any other Ryder site in your jurisdiction, please contact me in Houston.

Respectfully submitted,

RYDER TRUCK RENTAL, INC.

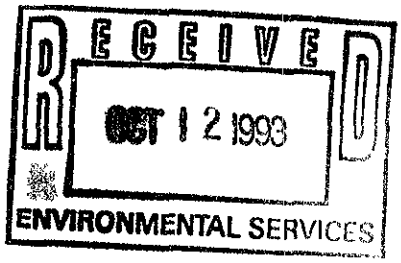
Ivan J. Gonzalez, P.E.
Environmental Project Engineer

Enclosure

cc: J Barr/File - Miami
C Boyles - San Francisco
A Brummer - Miami
Vijay Patel - RWQCB, San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, CA 94612

lc0227.tr3

HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.



QUARTERLY MONITORING REPORT

Ryder Truck Rental, Inc. Facility No. LC 0227
8001 Oakport Road
Oakland, California

Sampling Date: August 20, 1993

Prepared for:

RYDER TRUCK RENTAL, INC.
11200 Hempstead Highway
Houston, TX 77092

Prepared by:

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.
2363 Mariner Square Drive, Suite 243
Alameda, California 94501
HETI Job No. 7-201.1

October 5, 1993

HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.

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1.0 INTRODUCTION

The purpose of this report is to present the results of Hydro-Environmental Technologies, Inc.'s (HETI's) quarterly ground water sampling at Ryder Truck Rental, Inc. (Ryder) Facility No. LC 0227 at 8001 Oakport Road in Oakland, California (Figure 1). Ground water sampling was performed on August 20, 1993.

Work performed at the site by HETI included: (1) well gauging, (2) well purging, (3) collection of ground water samples from all nine monitoring wells on-site and (4) analysis of water samples for total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as gasoline (TPHg) using EPA Method 8015 (modified), and benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8020 (modified).

2.0 BACKGROUND

The site is situated in an area of light industrial, commercial and warehouse use (Figure 2). The site is currently used by Ryder as a truck maintenance and rental facility. Unleaded gasoline, diesel fuel and new engine oil are currently stored and dispensed on site. Used oil is stored in an above ground storage tank. Maintenance building and underground storage tank locations are shown on the Site Plan (Figure 3).

In April and May 1991, Roy F. Weston, Inc. (Weston) installed five soil borings, designated SB-1 through SB-5, at the site and collected soil and grab ground water samples for laboratory analysis. Soil and ground water sample analytical results indicated that petroleum hydrocarbons were present in soil and ground water in the vicinity of the underground storage tanks. Results of this phase of investigation were presented in Weston's report dated May 31, 1991.

The previously existing underground used oil tank failed a tightness test in 1991. Ryder retained HETI to assess the extent of the petroleum hydrocarbons detected during the Weston investigation and to supervise the removal of the underground used oil storage tank. HETI installed three 4-inch diameter and three 2-inch diameter monitoring wells, designated MW-1 through MW-6, and one soil boring, designated B-1, between March and April 1992. Complete results of the used oil tank removal and the initial phase of well installation and soil and ground water sampling were presented in HETI's "Used Oil Tank Removal and Subsurface Investigation Report" dated July 14, 1992.

The July 1992 report noted that the ground water flow direction and gradient beneath the site was highly variable. An east-west trending ground water trough

(elongated depression) was calculated to be present in the vicinity of well MW-3, causing local ground water flow directions to range widely from northeasterly, to westerly, to southerly. Following review of the well logs and historical aerial photographs, HETI concluded that ground water flow patterns are preferential, and may be dependent on sedimentation and stratigraphic characteristics of the tidal flat deposits buried beneath the site. In the 1950's, the tidal flat was developed by diking and draining, and elevated above sea level by filling with local quarry rock. This gravelly rock fill lies partially below the water table and may not be present consistently beneath the site. It may also create preferential flow paths for ground water movement.

In September 1992, HETI supervised the installation of three additional two-inch diameter monitoring wells designated MW-7, MW-8 and MW-9. Complete details of this phase of work can be found in HETI's "Phase II Subsurface Investigation Report" dated November 11, 1992.

The wells at the site were most recently sampled on April 14, 1993. Results were presented in HETI's Quarterly Monitoring Report dated May 25, 1993.

3.0 FIELD ACTIVITIES

HETI personnel collected ground water samples from monitoring wells MW-1 through MW-9 on August 20, 1993. All sampling was performed according to HETI standard protocol using methods which are consistent with guidelines established by the lead regulatory agencies. A copy of HETI's Ground Water Sampling Protocol has previously been submitted to the Alameda County Department of Environmental Health (ACDEH).

Prior to purging, the depth to water in each of the wells was gauged to the nearest hundredth of a foot using an electronic water sounder. The wells were vented 24 hours before gauging to allow water levels to stabilize. Prior to sampling, the wells were purged of three well casing volumes or purged dry while the parameters of temperature and pH were monitored for stabilization. Purging data is included in Appendix A. No separate-phase petroleum was detected in any of the wells.

Following recovery of the water level in the wells to at least 80 percent of their static level, ground water samples were collected with dedicated bailers. The samples were transferred to sample containers provided by the analytical laboratory. Sample containers were documented, labeled and placed in a cooler. A chain of custody was prepared and accompanied the samples to the laboratory; a copy is included in Appendix B. Ground water sample analysis was performed by Pace, Inc. a state DHS-certified laboratory located in Novato, California.

4.0 GROUND WATER DATA

The depth to ground water in each of the wells ranged from 2.43 to 7.11 feet below grade, according to well gauging conducted for this investigation. Gauging data is included in Table 1. The depth to water measurements were combined with wellhead elevation data previously collected by HETI to calculate ground water elevations. These elevations are shown on Figure 4, the Ground Water Contour Map.

The ground water flow direction during this ground water sampling round was calculated to be to the southeast in the southeast corner of the site and to the west in the northwest corner of the site. As in past gaugings, the ground water elevation in monitoring well MW-3 was lower than ground water elevations in surrounding monitoring wells.

5.0 LABORATORY ANALYTICAL RESULTS

Petroleum hydrocarbons were detected in the ground water samples collected from all the monitoring wells (MW-1 through MW-9). Concentrations ranged from 100 parts per billion (ppb) TPHd in the water sample collected from monitoring well MW-4, to 1,500 ppb in the water samples collected from monitoring wells MW-2 and MW-3.

Low boiling point petroleum hydrocarbons was not detected in ground water samples collected from any of the monitoring wells except MW-3, at a concentration of 69 ppb TPHg. Benzene, toluene, ethylbenzene and total xylenes were not detected in ground water samples collected from any of the wells except MW-3 and MW-5. The dissolved hydrocarbon distribution is shown on Figure 5.

Hydrocarbon concentrations detected in water samples collected from the monitoring wells at the site were generally similar to concentrations in samples collected from the same wells in previous sampling rounds. Cumulative analytical results are presented in Table 1. Copies of the laboratory reports are attached as Appendix B.

6.0 SUMMARY

The results of HETI's field activities and laboratory analyses of ground water samples collected during this quarterly sampling event are summarized below:

- Depth to ground water in each of the wells ranged from 2.43 to 7.11 feet below grade. Ground water flow beneath the site is generally to the southeast in the southeast portion of the site and to the west in the northwest portion of the site.

- HETI collected ground water samples from each of the wells on August 20, 1993. TPHd was detected in samples from all nine wells. TPHg and benzene were detected in samples from one well only.

- Hydrocarbon concentrations in samples collected from the wells were generally similar to concentrations in samples collected from the same wells in previous sampling rounds.

7.0 RECOMMENDATIONS

Due to the fact that neither TPHg nor BTEX have been detected in ground water samples collected from MW-1, MW-2 and MW-4 through MW-9 in the last four quarters, HETI recommends that these analyses be deleted from the quarterly program. This recommendation will be implemented in the November, 1993 sampling event, unless directed otherwise by the Alameda County Department of Environmental Health.

8.0 CERTIFICATION

This report was prepared under the supervision of a registered professional engineer. All statements, conclusions and recommendations are based solely upon field observations and analytical analyses performed by a state-certified laboratory related to work performed by Hydro-Environmental Technologies, Inc.

It is possible that variations in soil or ground water conditions exist beyond the points explored in this investigation. Also, site conditions are subject to change at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

The service performed by Hydro-Environmental Technologies, Inc. has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Hydro-Environmental Technologies, Inc. includes in this report chemical analytical data from a state-certified laboratory. These analyses are performed according to procedures suggested by the U.S. EPA and the State of California. Hydro-Environmental Technologies, Inc. is not responsible for laboratory errors in procedure or result reporting.

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

Prepared by:

Frances Maroni
Staff Engineer

Reviewed by:

Scott Kellstedt
Project Manager

John Turney P.E.
Senior Engineer

TABLES

Table 1

SUMMARY OF GROUND WATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
Ryder Truck Rental LC 0227
8001 Oakport Road
Oakland, California

Well-No.	Date	TOC (feet)	DTW (feet)	GW Elev (feet)	TPHd (ppm)	TPHg (ppm)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-1	3/20/92	29.57	3.70	25.87	0.25	0.055	6.9	0.7	2.9	6
	12/8/92	29.57	4.55	25.02	NT	NT	NT	NT	NT	NT
	1/27/93	29.57	1.91	27.66	0.12	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	29.57	1.85	27.72	NT	NT	NT	NT	NT	NT
	3/26/93	29.57	2.22	27.35	NT	NT	NT	NT	NT	NT
	4/14/93	29.57	2.77	26.80	0.11	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	29.57	3.07	26.50	0.84	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-2	3/20/92	30.21	4.08	26.13	2	ND<0.05	ND<0.5	0.7	ND<0.5	2.5
	12/8/92	30.21	3.39	26.82	NT	NT	NT	NT	NT	NT
	1/27/93	30.21	3.96	26.25	0.72	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	30.21	3.90	26.31	NT	NT	NT	NT	NT	NT
	3/26/93	30.21	3.85	26.36	NT	NT	NT	NT	NT	NT
	4/14/93	30.21	4.01	26.20	0.89	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	30.21	4.20	26.01	1.5	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-3	3/20/92	30.00	6.18	23.82	1.2	0.097	20	ND<0.5	ND<0.5	ND<0.5
	12/8/92	30.00	7.05	22.95	NT	NT	NT	NT	NT	NT
	1/27/93	30.00	5.70	24.30	0.47	0.09	6.3	0.6	ND<0.5	0.6
	2/24/93	30.00	5.64	24.36	NT	NT	NT	NT	NT	NT
	3/26/93	30.00	5.68	24.32	NT	NT	NT	NT	NT	NT
	4/14/93	30.00	5.92	24.08	0.98	0.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	30.00	6.62	23.38	1.5	0.069	0.60	0.80	1.10	1.70
MW-4	5/12/92	30.16	4.28	25.88	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	30.16	5.13	25.03	NT	NT	NT	NT	NT	NT
	1/27/93	30.16	2.46	27.70	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	30.16	2.37	27.79	NT	NT	NT	NT	NT	NT
	3/26/93	30.16	2.76	27.40	NT	NT	NT	NT	NT	NT
	4/14/93	30.16	3.24	26.92	1.5	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	30.16	3.63	26.53	0.10	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 1

SUMMARY OF GROUND WATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
Ryder Truck Rental LC 0227
8001 Oakport Road
Oakland, California

Well-No.	Date	TOC (feet)	DTW (feet)	GW Elev (feet)	TPHd (ppm)	TPHg (ppm)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-5	5/12/92	28.82	1.01	27.81	0.52(H)	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	28.82	3.08	25.74	NT	NT	NT	NT	NT	NT
	1/27/93	28.82	2.06	26.76	0.29	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	28.82	2.03	26.79	NT	NT	NT	NT	NT	NT
	3/26/93	28.82	1.84	26.98	NT	NT	NT	NT	NT	NT
	4/14/93	28.82	2.02	26.80	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	28.82	2.43	26.39	0.42	ND<0.05	ND<0.5	ND<0.5	ND<0.5	1.0
MW-6	5/12/92	30.02	4.68	25.34	0.19	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	30.02	5.69	24.33	NT	NT	NT	NT	NT	NT
	1/27/93	30.02	4.72	25.30	0.12	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	30.02	5.38	24.64	NT	NT	NT	NT	NT	NT
	3/26/93	30.02	3.93	26.09	NT	NT	NT	NT	NT	NT
	4/14/93	30.02	4.25	25.77	0.12	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	30.02	4.82	25.20	0.11	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-7	9/14/92	29.81	4.41	25.40	0.21	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	29.81	5.35	24.46	NT	NT	NT	NT	NT	NT
	1/27/93	29.81	1.54	28.27	0.23	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	29.81	1.41	28.40	NT	NT	NT	NT	NT	NT
	3/26/93	29.81	2.01	27.80	NT	NT	NT	NT	NT	NT
	4/14/93	29.81	2.61	27.20	0.18	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	29.81	3.96	25.85	0.20	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-8	9/14/92	29.92	5.39	24.53	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	29.92	4.96	24.96	NT	NT	NT	NT	NT	NT
	1/27/93	29.92	1.16	28.76	ND<0.05	ND<0.05	ND<0.5	0.6	ND<0.5	1.0
	2/24/93	29.92	0.76	29.16	NT	NT	NT	NT	NT	NT
	3/26/93	29.92	0.78	29.14	NT	NT	NT	NT	NT	NT
	4/14/93	29.92	2.15	27.77	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	29.92	4.85	25.07	0.10	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 1

SUMMARY OF GROUND WATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
Ryder Truck Rental LC 0227
8001 Oakport Road
Oakland, California

Well-No.	Date	TOC (feet)	DTW (feet)	GW Elev (feet)	TPHd (ppm)	TPHg (ppm)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-9	9/14/92	29.76	7.64	22.12	0.071	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/8/92	29.76	7.53	22.23	NT	NT	NT	NT	NT	NT
	1/27/93	29.76	2.86	26.90	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	29.76	3.61	26.15	NT	NT	NT	NT	NT	NT
	3/26/93	29.76	3.96	25.80	NT	NT	NT	NT	NT	NT
	4/14/93	29.76	4.86	24.90	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/20/93	29.76	7.11	22.65	0.11	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Well-No.	Date	TOG (ppb)	Cd (ppb)	Cr (ppb)	Ni (ppb)	Zn (ppb)
MW-1	3/20/92	ND<5,000	ND<5	20	30	ND<10
MW-2	3/20/92	ND<5,000	7	ND<10	30	ND<10
MW-3	3/20/92	ND<5,000	6	30	50	10
MW-4	5/12/92	ND<5,000	ND<5	ND<10	ND<20	21
MW-5	5/12/92	NT	20	ND<10	ND<20	47
MW-6	5/12/92	NT	54	ND<10	ND<20	59
MW-7	9/14/92	NT	ND<5	50	80	310
MW-8	9/14/92	NT	ND<5	ND<10	30	50
MW-9	9/14/92	NT	ND<5	ND<10	30	50

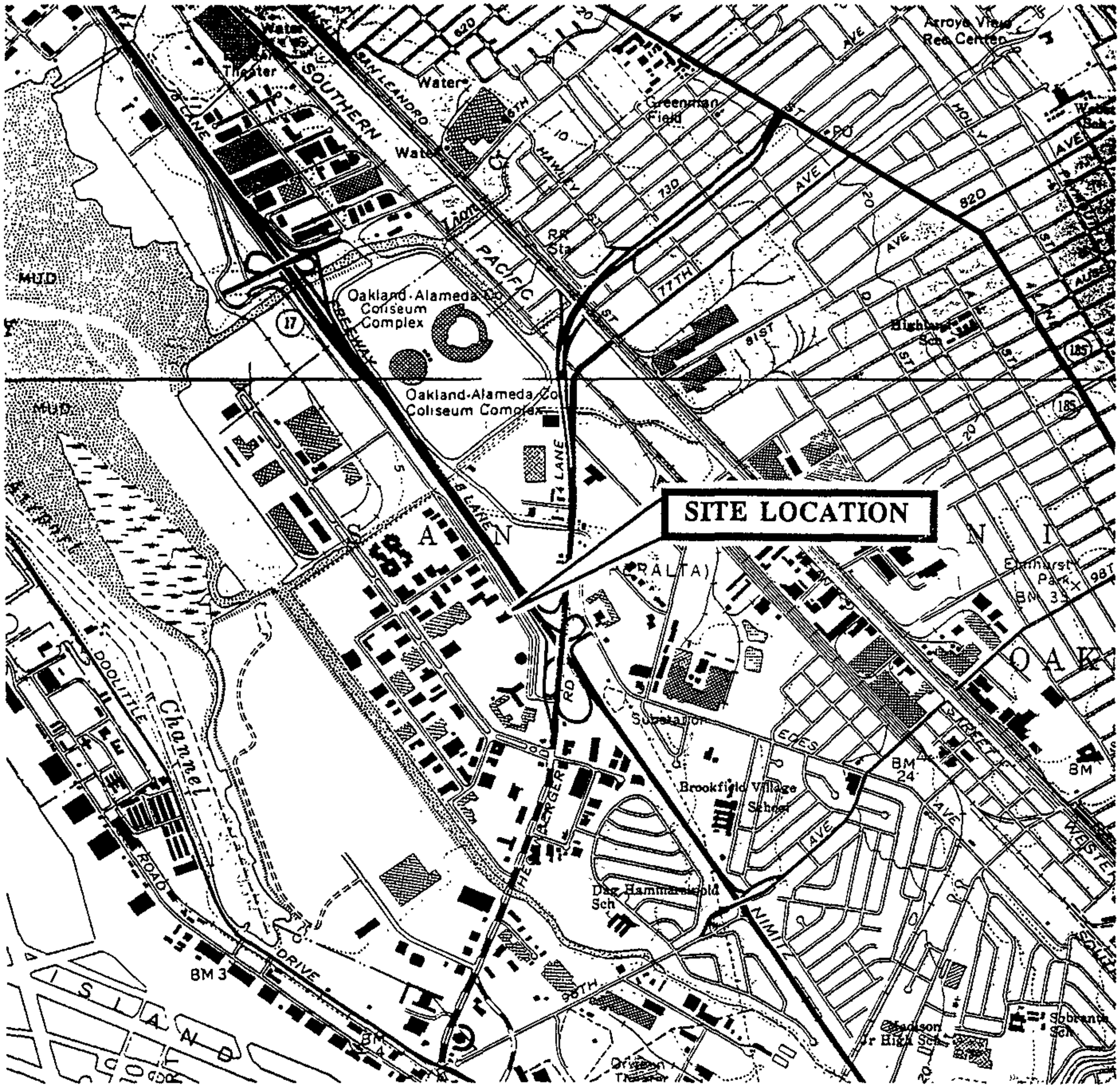
Table 1

SUMMARY OF GROUND WATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
Ryder Truck Rental LC 0227
8001 Oakport Road
Oakland, California

Notes:

Well No. :	Monitoring well designation
Date :	Ground water sample collection date
TOC :	Top of casing (north side)
DTW :	Depth to water
GW Elev :	Ground water elevation
TPHd :	Total Petroleum Hydrocarbons as diesel by EPA Method 8015 (modified)
TPHg :	Total Petroleum Hydrocarbons as gasoline by EPA Method 8015 (modified)
BTEX :	Benzene, Toluene, Ethylbenzene, total Xylenes by EPA Method 8020 (modified)
TOG :	Total Oil and Grease by EPA Method 418.1 (IR)
Cd, Cr, Ni, Zn :	Cadmium, chromium, nickel and zinc by EPA Method 6010/200.7, ICP
ppm :	Parts per million (mg/L)
ppb :	Parts per billion (µg/L)
NA :	Not available
NT :	Not tested
ND :	Not detected in concentrations exceeding the method detection limit
(H) :	Hydrocarbons greater than C-22 detected

FIGURES



SOURCE:
USGS 7.5 ' QUADRANGLES
ENTITLED "OAKLAND EAST, CA"
AND "SAN LEANDRO, CA"

SCALE 1:24 000

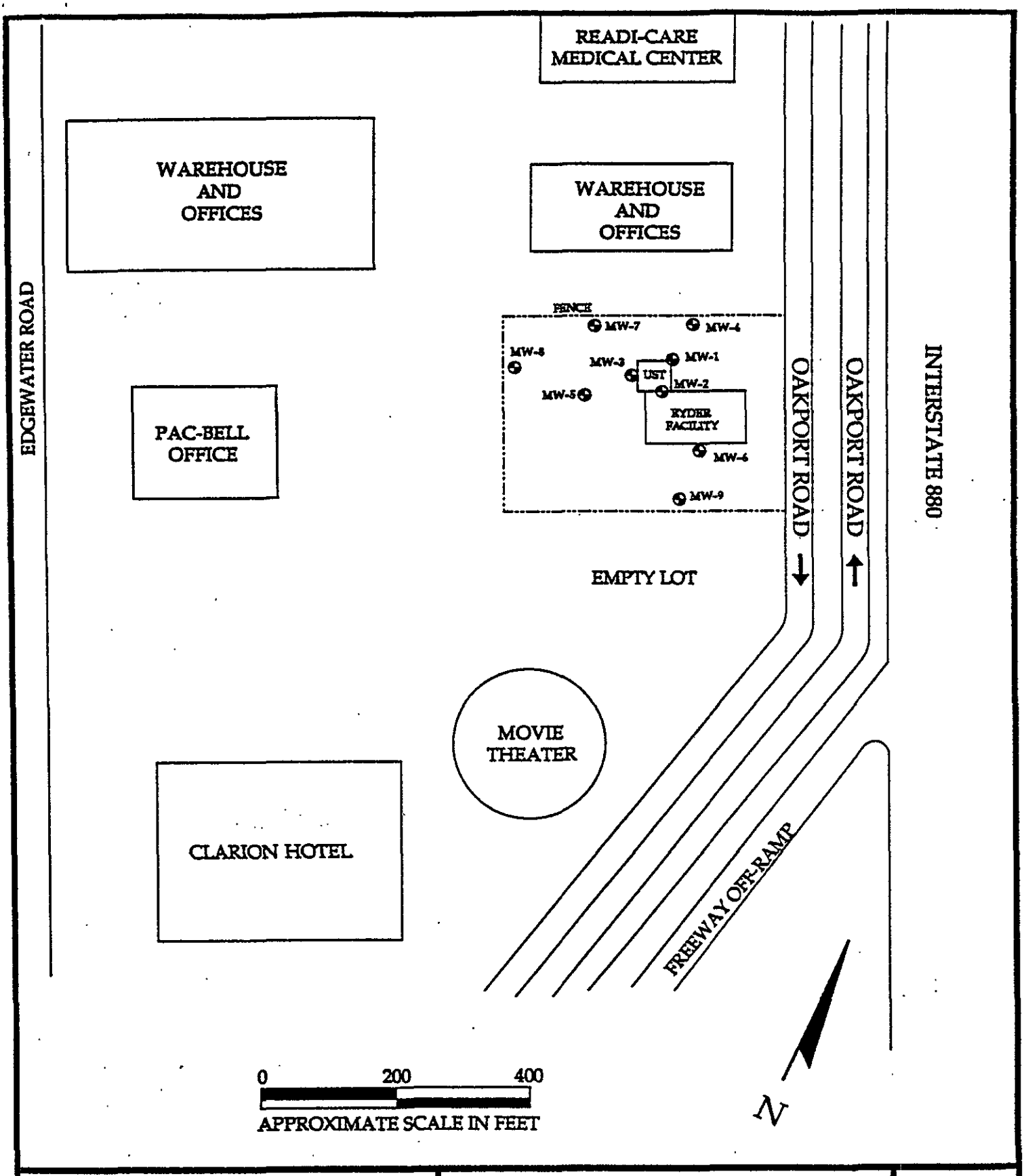
1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

N

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.	SITE LOCATION MAP Ryder Truck Rental 8001 Oakport Road Oakland, California	Job No. 7-201 Figure 1

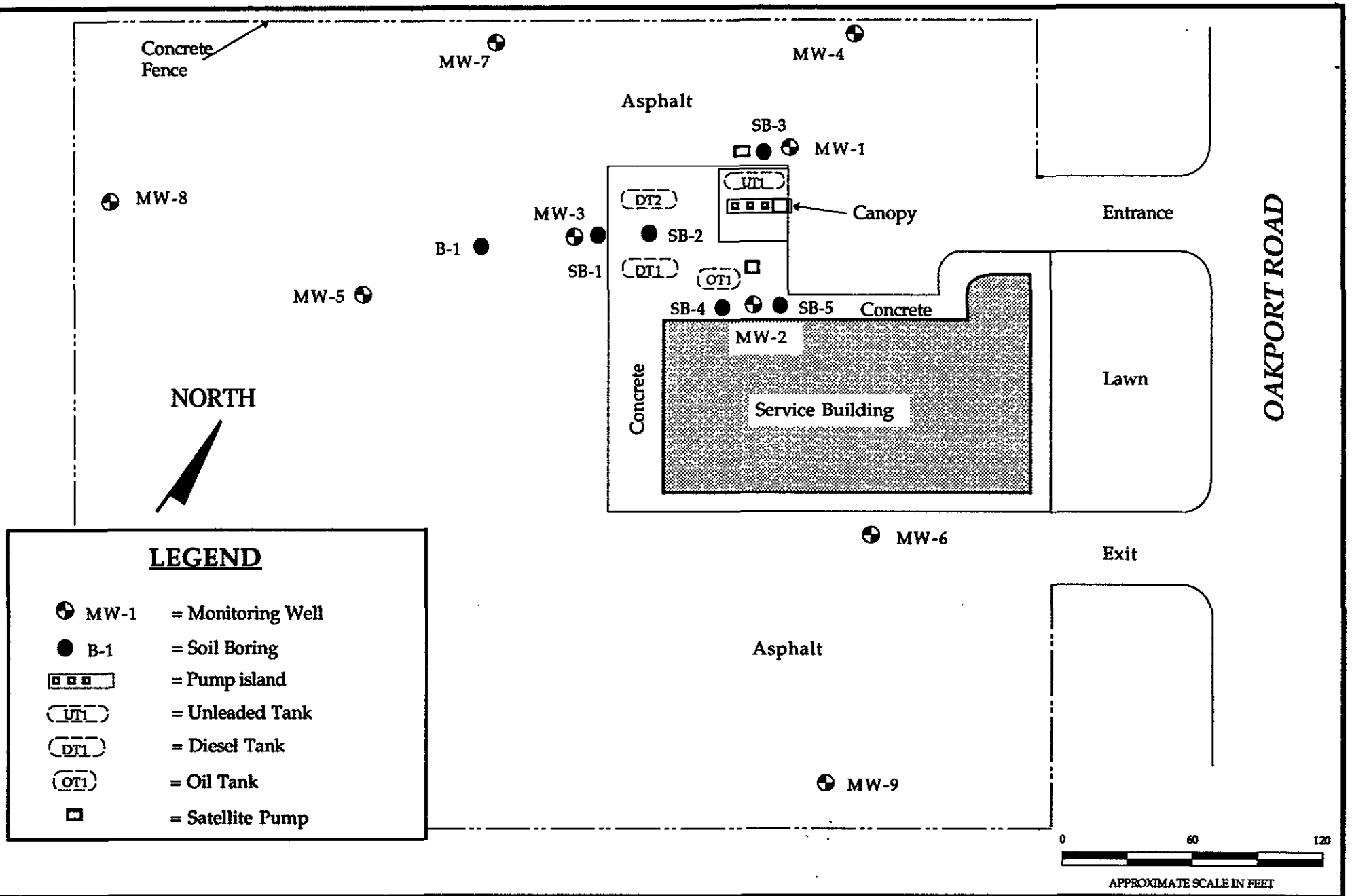


HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

SITE VICINITY MAP

Ryder Truck Rental
8001 Oakport Road
Oakland, California

Job No.
7-201
Figure
2



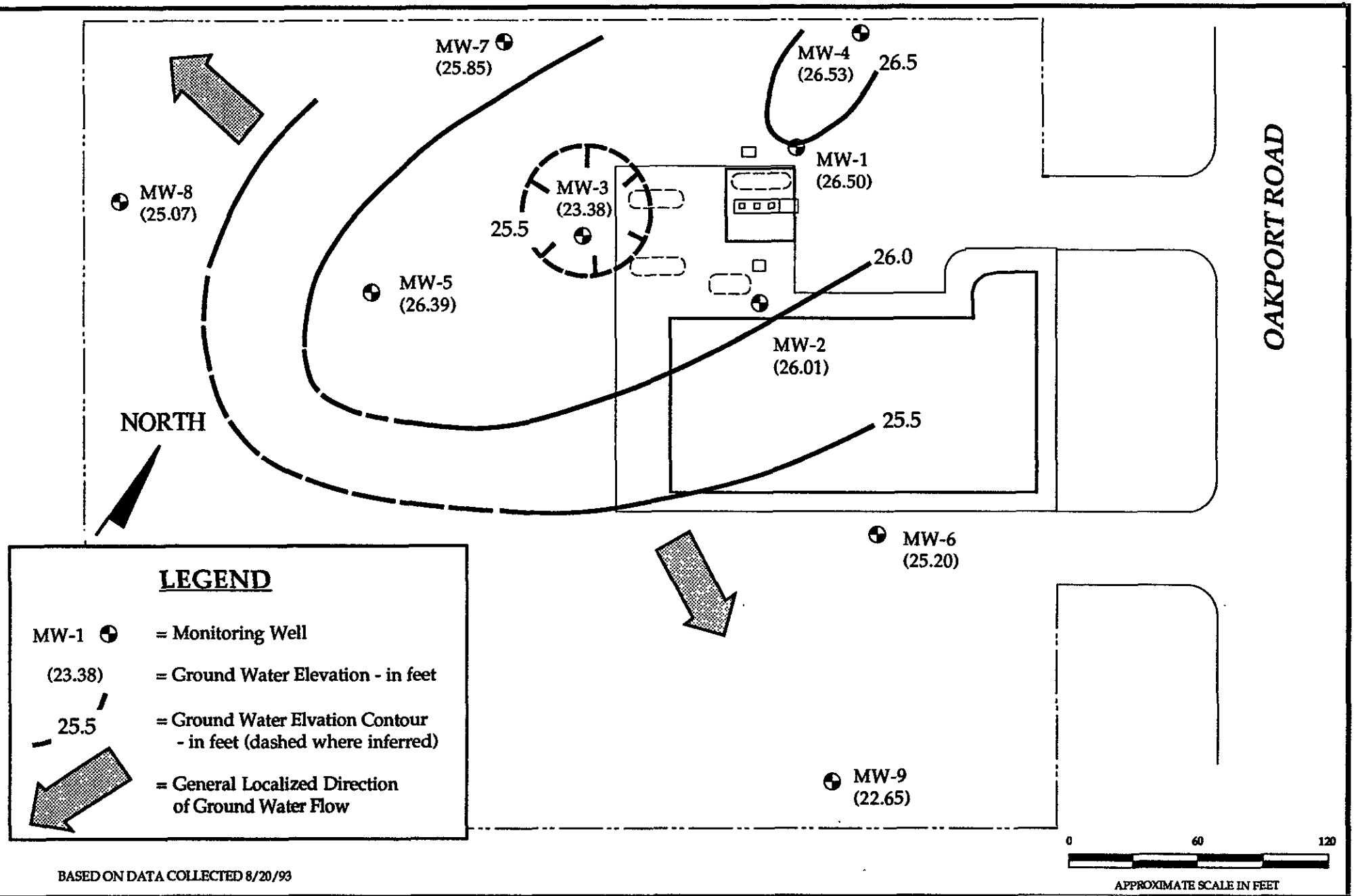
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

SITE PLAN

Ryder Truck Rental Facility LC 0227
8001 Oakport Road
Oakland, California

Figure 3

7-201.1 9/93



BASED ON DATA COLLECTED 8/20/93

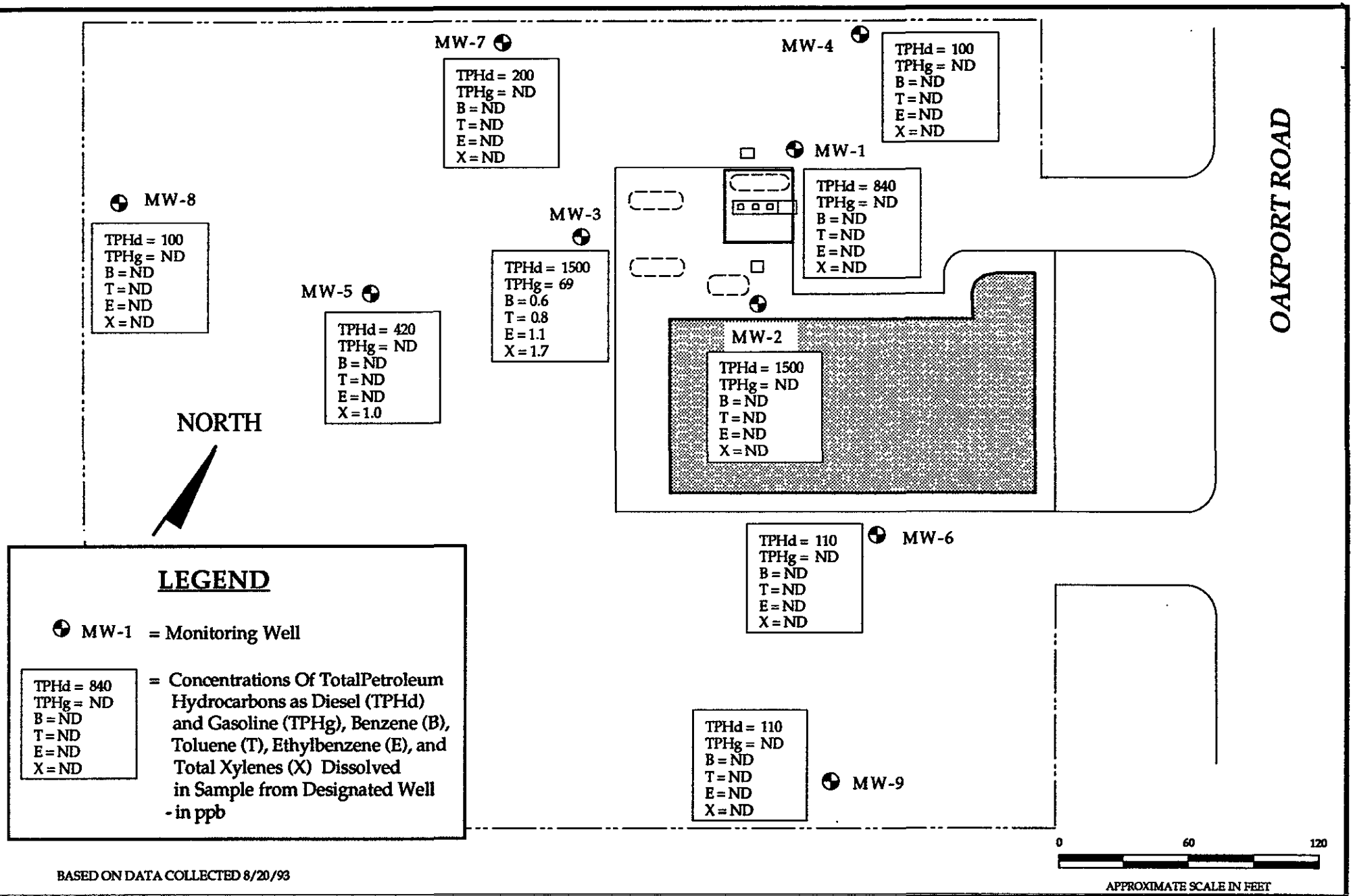
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

GROUND WATER CONTOUR MAP

Ryder Truck Rental Facility LC 0227
8001 Oakport Road
Oakland, California

Figure 4

7-201.1 9/93



BASED ON DATA COLLECTED 8/20/93

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

HYDROCARBON CONCENTRATION MAP

Ryder Truck Rental Facility LC 0227
8001 Oakport Road
Oakland, California

Figure 5

7-201.1 9/93

APPENDIX A

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 14.40 ft.

Depth to water: 3.07 ft.

Saturated Thickness: 11.33 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 7.36 gallons

volumes to purge x 3 vols.

*Total volume to purge = 22.08 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
10:23 am	0	—	—	—
	5	69.6	—	7.19
	10	72.9	—	7.25
	15	73.2	—	7.23
↓	20	74.3	—	7.13
10:32 am	23	74.4	—	7.10

Color: olive Turbidity: moderate

Recharge: good SPP ¢ ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-1

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 13.25 ft.

Depth to water: 4.20 ft.

Saturated Thickness: 9.05 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 5.88 gallons

volumes to purge x 3 vols.

*Total volume to purge = 17.64 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
	10:37a	0	—	—	—
		5	70.4	—	6.94
		10	69.7	—	6.92
Dry	10:43	15	68.4	—	6.81

Color: clear Turbidity: moderate

Recharge: poor SPP 0 ft. Sheen on bail HnB

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-2

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 13.78 ft.

Depth to water: 6.62 ft.

Saturated Thickness: 7.16 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 4.65 gallons

volumes to purge x 3 vols.

*Total volume to purge = 13.95 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
	0	—	—	—
10.45	5	69.9	—	6.48
10.50	10	71.6	—	6.28
10.52	11	71.2	—	6.22

dry.

Color: olive Turbidity: low-mod

Recharge: poor SPP 0 ft. slight sheen on bail H2O

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOC	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-3

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 14.92 ft.

Depth to water: 3.63 ft.

Saturated Thickness: 11.29 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 1.81 gallons

volumes to purge x 3 vols.

*Total volume to purge = 5.43 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
9:48 am	0	—	—	—
↓	2	67.5	—	7.90
↓	4	67.8	—	7.75
9:52 am	6	67.8	—	7.59

Color: gray Turbidity: Low

Recharge: good SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-4

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 15.07 ft.

Depth to water: 2.43 ft.

Saturated Thickness: 12.64 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 2.02 gallons

volumes to purge x 3 vols.

*Total volume to purge = 6.06 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
10:07 am	0	———	———	———
↓	2	71.6	—	6.30
↓	4	70.7	—	6.12
10:10 am	6.5	69.7	—	6.07

Color: clear Turbidity: moderate

Recharge: poor - fair SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-5

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 15.00 ft.

Depth to water: 4.82 ft.

Saturated Thickness: 10.18 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 1.63 gallons

volumes to purge x 3 vols.

*Total volume to purge = 4.89 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
9:58 am	0	—	—	—
↓	2	70.3	—	5.65
↓	4	71.0	—	5.71
10:02 am	5	70.4	—	5.75

DRY

Color: olive Turbidity: moderate

Recharge: poor SPP ϕ ft. sheen on bail H2O

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010
TPHd	O-Pb	TEL	8020
TPH mo	Total Pb	EDB	8240
601	602	Nitrates	8260 8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-6

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 12.37 ft.

Depth to water: 3.96 ft.

Saturated Thickness: 8.41 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 1.34 gallons

volumes to purge x 3 vols.

*Total volume to purge = 4.02 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
10:14	0	—	—	—
"	2	71.2	—	7.23
10:19	4.5	71.8	—	6.97

Color: gray Turbidity: moderate

Recharge: fair SPP ø ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-7

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 12.50 ft.

Depth to water: 4.85 ft.

Saturated Thickness: 7.65 ft.

Conversion	
diam.	gals/ft.
(2 in.)	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 1.22 gallons

volumes to purge x 3 vols.

*Total volume to purge = 3.66 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: (PVC bailer) / Submersible pump/ Suction lift pump/ _____
(circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
	0	—	—	—
9.20	2	69.6	—	7.60
9.23	4	69.6		7.09

Color: grey brown Turbidity: mod

Recharge: poor SPP 9 ft.

SAMPLING DATA:

Sampling method: (Dedicated bailer) / _____

Sample for: (circle)

(TPHg/BTEX)	METALS	TOG	8010
(TPHd)	O-Pb	TEL	8020
TPH mo	Total Pb	EDB	8240
601	602	Nitrates	8260 8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-8

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

PURGED/SAMPLED BY: TR/RA DATE: 8/20/93

GAUGING DATA:

Depth to bottom: 12.84 ft.

Depth to water: 7.11 ft.

Saturated Thickness: 5.73 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 0.92 gallons

volumes to purge x 3 vols.

*Total volume to purge = 2.76 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____
(circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
	0	———	———	———
9.35a	1.5	69.7	~	7.14
9.37a	3	69.2	~	7.10

Color: orng brown Turbidity: mod

Recharge: poor SPP ∅ ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

PURGE/SAMPLE SHEET

WELL # MW-9

LOCATION: Ryder - Oakland

Job No. 7-201

SHEET 1 of 1

APPENDIX B

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Hydro-Environmental Tech.,Inc.
2363 Mariner Square Dr., Suite 243
Alameda, CA 94501

September 07, 1993
PACE Project Number: 430823512

Attn: Mr. Scott Kellstedt

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138604	
Date Collected:			08/20/93	
Date Received:			08/23/93	
			MW-1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/01/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/01/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/01/93
Benzene	ug/L	0.5	ND	09/01/93
Toluene	ug/L	0.5	ND	09/01/93
Ethylbenzene	ug/L	0.5	ND	09/01/93
Xylenes, Total	ug/L	0.5	ND	09/01/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.84	08/27/93
Date Extracted			08/26/93	

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REPORT OF LABORATORY ANALYSIS

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138612	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/01/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/01/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/01/93
Benzene	ug/L	0.5	ND	09/01/93
Toluene	ug/L	0.5	ND	09/01/93
Ethylbenzene	ug/L	0.5	ND	09/01/93
Xylenes, Total	ug/L	0.5	ND	09/01/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	1.5	08/27/93
Date Extracted			08/26/93	

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REPORT OF LABORATORY ANALYSIS

Mr. Scott Kellstedt
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September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138620	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/01/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	69	09/01/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/01/93
Benzene	ug/L	0.5	0.6	09/01/93
Toluene	ug/L	0.5	0.8	09/01/93
Ethylbenzene	ug/L	0.5	1.1	09/01/93
Xylenes, Total	ug/L	0.5	1.7	09/01/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	1.5	08/27/93
Date Extracted			08/26/93	

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REPORT OF LABORATORY ANALYSIS

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138639	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/01/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/01/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/01/93
Benzene	ug/L	0.5	ND	09/01/93
Toluene	ug/L	0.5	ND	09/01/93
Ethylbenzene	ug/L	0.5	ND	09/01/93
Xylenes, Total	ug/L	0.5	ND	09/01/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.10	08/26/93
Date Extracted			08/26/93	

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September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138647	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-5	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/01/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/01/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/01/93
Benzene	ug/L	0.5	ND	09/01/93
Toluene	ug/L	0.5	ND	09/01/93
Ethylbenzene	ug/L	0.5	ND	09/01/93
Xylenes, Total	ug/L	0.5	1.0	09/01/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.42	08/27/93
Date Extracted			08/26/93	

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Mr. Scott Kellstedt
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September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138655	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-6	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/02/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/02/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/02/93
Benzene	ug/L	0.5	ND	09/02/93
Toluene	ug/L	0.5	ND	09/02/93
Ethylbenzene	ug/L	0.5	ND	09/02/93
Xylenes, Total	ug/L	0.5	ND	09/02/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.11	08/27/93
Date Extracted			08/26/93	

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September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138663	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-7	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/02/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/02/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/02/93
Benzene	ug/L	0.5	ND	09/02/93
Toluene	ug/L	0.5	ND	09/02/93
Ethylbenzene	ug/L	0.5	ND	09/02/93
Xylenes, Total	ug/L	0.5	ND	09/02/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.20	08/27/93
Date Extracted			08/26/93	

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REPORT OF LABORATORY ANALYSIS

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PACE Sample Number:			70 0138671	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-8	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/02/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/02/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/02/93
Benzene	ug/L	0.5	ND	09/02/93
Toluene	ug/L	0.5	ND	09/02/93
Ethylbenzene	ug/L	0.5	ND	09/02/93
Xylenes, Total	ug/L	0.5	ND	09/02/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.10	08/27/93
Date Extracted			08/26/93	

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REPORT OF LABORATORY ANALYSIS

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0138680	
Date Collected:			08/20/93	
Date Received:			08/23/93	
Client Sample ID:			MW-9	
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/02/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/02/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/02/93
Benzene	ug/L	0.5	ND	09/02/93
Toluene	ug/L	0.5	ND	09/02/93
Ethylbenzene	ug/L	0.5	ND	09/02/93
Xylenes, Total	ug/L	0.5	ND	09/02/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.11	08/27/93
Date Extracted			08/26/93	

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

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Mr. Scott Kellstedt
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FOOTNOTES
for pages 1 through 9

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

MDL Method Detection Limit
ND Not detected at or above the MDL.

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QUALITY CONTROL DATA

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

EXTRACTABLE FUELS EPA 3510/8015
Batch: 70 24016
Samples: 70 0138604, 70 0138612, 70 0138620

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	67%	68%	1%

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QUALITY CONTROL DATA

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

EXTRACTABLE FUELS EPA 3510/8015
Batch: 70 24079
Samples: 70 0138647, 70 0138655, 70 0138663, 70 0138671, 70 0138680

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	78%	69%	12%

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Mr. Scott Kellstedt
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QUALITY CONTROL DATA

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

EXTRACTABLE FUELS EPA 3510/8015
Batch: 70 24081
Samples: 70 0138639

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	67%	68%	1%

11 Digital Drive
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TEL: 415-883-6100
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QUALITY CONTROL DATA

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PURGEABLE FUELS AND AROMATICS
Batch: 70 24231
Samples: 70 0138604, 70 0138612, 70 0138639, 70 0138655, 70 0138663
70 0138671, 70 0138680

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	1000	96%	93%	3%
Benzene	ug/L	0.5	100	91%	97%	6%
Toluene	ug/L	0.5	100	89%	96%	7%
Ethylbenzene	ug/L	0.5	100	91%	94%	3%
Xylenes, Total	ug/L	0.5	300	96%	100%	4%

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QUALITY CONTROL DATA

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

PURGEABLE FUELS AND AROMATICS
Batch: 70 24281
Samples: 70 0138620, 70 0138647

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Methyl tert-Butyl Ether (MTBE)	ug/L	5.0	ND
Xylene (total)	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	1000	114%	101%	12%
Benzene	ug/L	0.5	40	101%	100%	0%
Toluene	ug/L	0.5	40	98%	96%	2%
Ethylbenzene	ug/L	0.5	40	96%	94%	2%
Methyl tert-Butyl Ether (MTBE)	ug/L	5.0	40	98%	91%	7%
Xylene (total)	ug/L	0.5	120	92%	89%	3%

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FOOTNOTES
for pages 11 through 15

September 07, 1993
PACE Project Number: 430823512

Client Reference: Ryder/Oakland Facility No. 0227/7-201.1

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

SAMPLER
Printed Name: Tony Ramírez
Signature: [signature]

DELIVER TO: PACE

ATTENTION: Ron Chew

SEND RESULTS TO:
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.
2363 MARINER SQUARE DR., SUITE 243
ALAMEDA, CA 94501
(510) 521-2684, (FAX) 521-5078
ATTENTION: Scott Kellstedt

SEND INVOICE TO:
Ryder Truck Rental (IVAN GONZALEZ)
% HETI

HETICAL JOB No.: 7-201.1

Relenquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	A. [signature]	8/20/93	1:15 pm
Relenquished by: A. [signature]	Received by: [signature] Pace	8/23	1100
Relenquished by: [signature] Pace	Received by: LABORATORY	8/23	1615

PROJECT NAME: Ryder / Oakland Facility No. 0227 — **PAGE 1 OF 1**

Sample Number	DATE & TIME	No. & Type Container	TPHg+BTEX (DHS mod)	TPHd (DHS mod)	Organic Lead					Lab Remarks
MW-1	8/20/93	3VOA, 1amber	X	X						13860.4
MW-2	↓	↓	X	X						13861.2
MW-3			X	X						13862.0
MW-4			X	X						13863.9
MW-5			X	X						13864.7
MW-6			X	X						13865.5
MW-7			X	X						13866.3
MW-8			X	X						13867.1
MW-9	↓	↓	X	X						13868.0

1308235~~5~~ 5 / 2

Special Instructions:

Turnaround:
- [ ] 5 DAY
- [x] 10 DAY
- [ ] 72 HOURS
- [ ] 24 HOURS