Quarterly Report
Exxon Station R/S #7-0104
1725 Park Street
Alameda, California
Jan. 1990 - March 1990

Background:
In 1986 underground storage tanks were removed and replaced at 1725 Park Street, Alameda, California (site). A Sensitive Receptor-Risk Assessment Survey for the site was conducted by HLA in May 1988.

Phase I Evaluation:
Groundwater samples were collected and analyzed onsite by a mobile laboratory. Three groundwater monitoring wells were installed and sampled. HLA report *Evaluation of Petroleum Hydrocarbons Regal Station 405, 1725 Park Street, Alameda, California* was issued on June 24, 1988.

Phase II Evaluation:
Three additional groundwater monitoring wells were installed at the site. All six monitoring wells at the site were sampled. HLA report *Phase II Evaluation of Petroleum Hydrocarbons, Exxon Service Station R/S #7-0104, 1725 Park Street, Alameda, California* was issued on March 21, 1989.

Work Performed During the Quarter:
The six onsite monitoring wells were sampled as part of a year-long quarterly sampling program. Groundwater samples were analyzed for TPH as gasoline and BTEX. Depth to ground water was measured and recorded. The results will be issued in early April 1990. Laboratory analytical results and groundwater elevations are attached as Table 1 and Table 2, respectively. Also attached is a site map showing monitoring well locations and March 1990 potentiometric groundwater surface elevations.

An additional monitoring well was installed and sampled during January 1990. Slug tests were performed in four monitoring wells on site during February 1990. Additional groundwater samples were collected during March 1990 from two monitoring wells and analyzed for total dissolved solids. Seven soil borings were drilled and samples collected in March 1990.

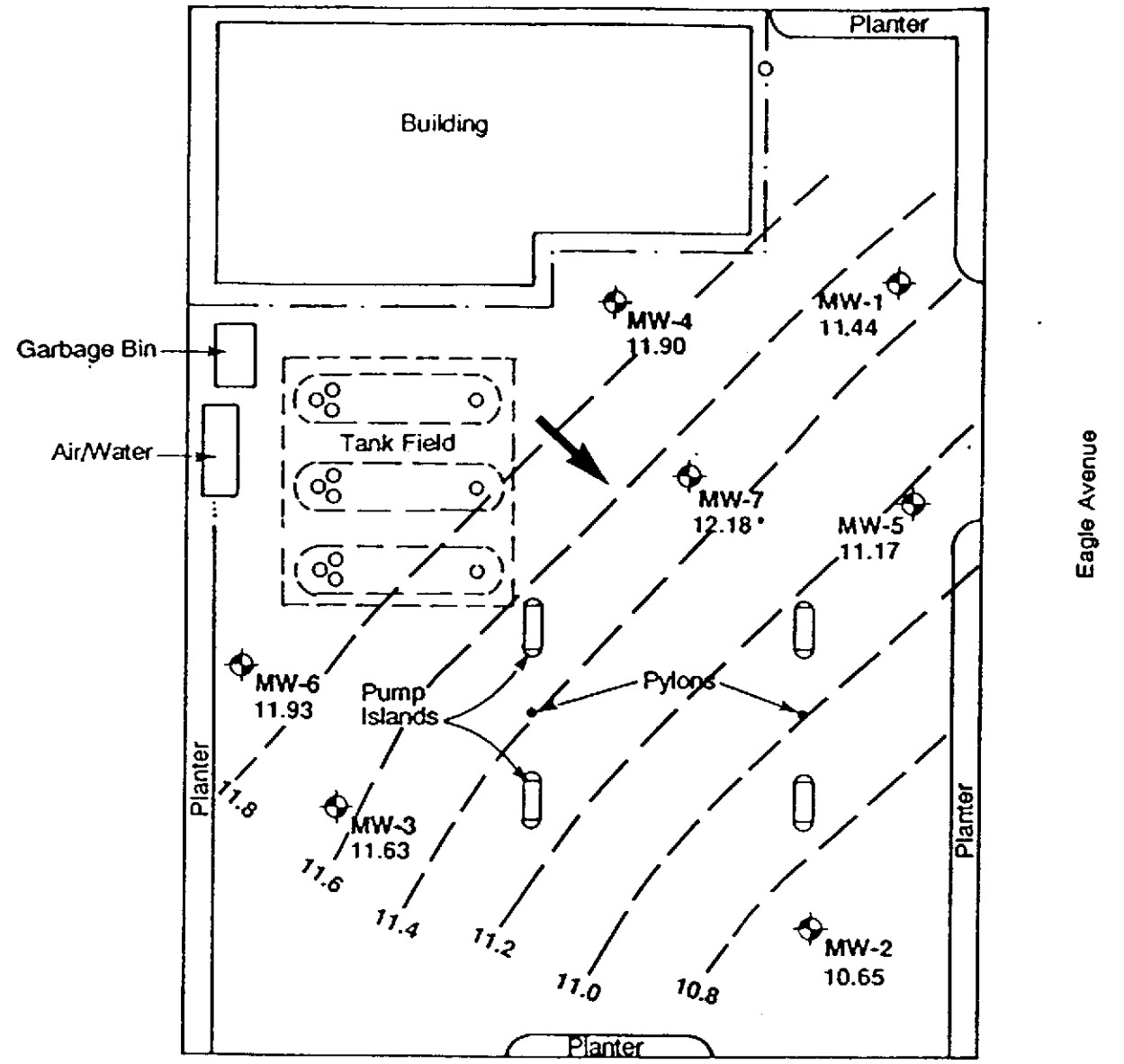
Product Recovery:
No product recovery operations are being conducted at this time.

Work to be Performed Next Quarter:
HLA is in the process of preparing a report that will provide recommendations for onsite remediation of soil and groundwater. The report will be issued in April 1990.

Michael L. Siembieda
Associate Geologist

Attachments: Table 1
Table 2
Plate 1

SMW:lh/m5/199



EXPLANATION

MW-1 ⊕ Monitoring Well Location

11.65 Potentiometric Surface Elevation in Feet Above Mean Sea Level

11.6 Potentiometric Surface Elevation Contour

Approximate Direction of Local Ground-Water Flow

* Elevation not used for contouring (see text)

N

0 20 40

APPROXIMATE SCALE IN FEET

Harding Lawson Associates
Engineering and Environmental Services

Generalized Potentiometric Surface Contour Map - March 13, 1990
Phase III Evaluation of Petroleum Hydrocarbons
Exxon Station #7-0104
Alameda, California

PLATE 1

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
CVD	4167,284.02		3/90		

Table 1. Summary of Chemical Results
Groundwater Samples

Well Number	Date	TPH Gasoline mg/l[1]	Benzene µg/l[2]	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	Total Dissolved Solids mg/l
DHS Action Levels			0.7	100	680	620	3000
MW-1	06/07/88	27	5,000	77	1,100	2,700	NT[3]
MW-1	01/17/89	6.8	2,000	91	800	1,600	NT
MW-1	06/01/89	1.7	170	6.9	13	230	NT
MW-1	09/18/89	2.1	9.0	53	18	130	NT
MW-1	12/11/89	5.8	200	42	290	330	NT
MW-1	03/07/90	NT	NT	NT	NT	NT	910
MW-1	03/13/90	2.3	430	14	16	220	NT
MW-2	06/07/88	110	12,000	12,000	2,100	12,000	NT
MW-2	01/17/89	30	6,600	3,300	1,600	7,700	NT
MW-2	06/01/89	8.7	330	280	680	1,200	NT
MW-2	09/18/89	17	580	280	570	220	NT
MW-2	12/11/89	32	1,000	850	310	1,200	NT
MW-2	03/13/90	39	3,500	1,500	2,100	3,900	NT
MW-3	06/07/88	28	6,000	80	940	1,900	NT
MW-3	01/17/89	5.3	2,500	230	590	1,100	NT
MW-3	06/01/89	5.4	330	300	570	680	NT
MW-3	09/18/89	12	680	170	350	860	NT
MW-3	12/11/89	14	1,100	150	670	690	NT
MW-3	03/13/90	18	6,300	200	1,100	1,100	NT
MW-4	01/17/89	19	1,000	1,500	360	2,200	NT
MW-4	06/01/89	3.6	180	240	63	810	NT
MW-4	09/18/89	6.0	290	200	28	510	NT
MW-4	12/11/89	13	750	910	510	1,200	NT
MW-4	03/07/90	NT	NT	NT	NT	NT	370
MW-4	03/13/90	12	1,500	1,500	470	2,800	NT
MW-5	01/17/89	26	8,700	3,900	990	5,900	NT
MW-5	06/01/89	5.2	240	220	130	690	NT
MW-5	09/18/89	8.0	340	150	140	460	NT
MW-5	12/11/89	15	720	320	450	870	NT
MW-5	03/13/90	10	3,400	220	280	800	NT

Table 1. Summary of Chemical Results
Groundwater Samples (continued)

Well Number	Date	TPH Gasoline mg/l[1]	Benzene µg/l[2]	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	Total Dissolved Solids mg/l
DHS Action Levels			0.7	100	680	620	3000
MW-6	01/17/89	38	7,400	9,300	2,000	9,900	NT
MW-6	06/01/89	23	1,900	2,500	2,000	6,000	NT
MW-6	09/18/89	17	650	410	650	320	NT
MW-6	12/11/89	29	1,100	810	330	1,500	NT
MW-6	03/13/90	38	12,000	15,000	2,500	12,000	NT
MW-7	01/09/90	17	380	180	330	1,300	NT
MW-7	03/13/90	16	360	270	83	460	NT
Field Blank	12/11/89	<50	0.88	0.95	0.62	1.7	NT

1 mg/l: milligrams per liter (parts per million)

2 µg/l: micrograms per liter (parts per billion)

3 NT: Not tested

< Numbers preceded by "<" indicate that sample was below the indicated detection limit.

Table 2. Groundwater Elevations and Product Thickness Measurements

Well Number	Elevation Top of Well Casing[1]	Date	Depth to Water BTOC[2] (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-1	17.35	06-10-88	6.35	NP[3]	NP	11.00
		01-17-89	5.81	NP	NP	11.54
		01-24-89	5.16	NP	NP	12.19
		06-01-89	6.27	NP	Sheen	11.08
		09-18-89	7.11	NP	NP	10.24
		10-20-89	7.28	NP	NP	10.07
		11-22-89	7.02	NP	NP	10.33
		12-11-89	6.60	NP	NP	10.75
		02-13-90	6.02	NP	NP	11.33
		03-13-90	5.91	NP	NP	11.44
MW-2	16.67	06-10-88	6.20	NP	NP	10.47
		01-17-89	5.96	NP	NP	10.71
		01-24-89	5.04	NP	NP	11.63
		06-01-89	6.32	NP	Sheen	10.35
		09-18-89	6.73	NP	NP	9.94
		10-20-89	6.87	NP	NP	9.80
		11-22-89	6.80	NP	NP	9.87
		12-11-89	6.57	NP	NP	10.10
		02-13-90	6.12	NP	NP	10.55
		03-13-90	6.02	NP	NP	10.65
MW-3	17.11	06-10-88	6.05	NP	NP	11.06
		01-17-89	5.49	NP	NP	11.62
		01-24-89	5.38	NP	NP	11.73
		06-01-89	5.96	NP	NP	11.15
		09-18-89	6.65	NP	NP	10.46
		10-20-89	6.88	NP	NP	10.23
		11-22-89	6.74	NP	NP	10.37
		12-11-89	6.37	NP	NP	10.74
		02-13-90	5.58	NP	NP	11.53
		03-13-90	5.48	NP	NP	11.63

Table 2. Groundwater Elevations and Product Thickness Measurements

Well Number	Elevation Top of Well Casing[1]	Date	Depth to Water BTOC[2] (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-4	17.34	01-17-89	5.36	NP	NP	11.98
		01-24-89	5.46	NP	NP	11.88
		06-01-89	6.01	NP	NP	11.33
		09-18-89	6.80	NP	NP	10.54
		10-20-89	7.08	NP	NP	10.26
		11-22-89	6.82	NP	NP	10.52
		12-11-89	6.37	NP	NP	10.97
		02-13-90	5.49	NP	NP	11.85
		03-13-90	5.44	NP	NP	11.90
MW-5	16.71	01-17-89	5.39	NP	NP	11.32
		01-24-89	5.51	NP	NP	11.20
		06-01-89	5.83	NP	Sheen	10.88
		09-18-89	6.52	NP	NP	10.19
		10-20-89	6.72	NP	NP	9.99
		11-22-89	6.54	NP	NP	10.17
		12-11-89	6.21	NP	NP	10.50
		02-13-90	5.60	NP	NP	11.11
		03-13-90	5.54	NP	NP	11.17
MW-6	17.56	01-17-89	5.59	NP	NP	11.97
		01-24-89	5.27	NP	NP	12.29
		06-01-89	6.25	NP	Sheen	11.31
		09-18-89	6.95	NP	NP	10.61
		10-20-89	7.24	NP	NP	10.32
		11-22-89	7.05	NP	NP	10.51
		12-11-89	6.63	NP	NP	10.93
		02-13-90	5.70	NP	NP	11.86
		03-13-90	5.63	NP	NP	11.93
MW-7	17.12	02-13-90	4.98	NP	NP	12.14
		03-13-90	4.94	NP	NP	12.18

1 Elevations surveyed to mean sea level.

2 BTOC - Below top of casing.

3 NP: No product.