

## **SUMMARY REPORT**

Project 330-03.02

Third Quarter 1990

Arco Service Station 0608  
17601 Hesperian Boulevard at Hacienda  
San Lorenzo, California

Alameda County

## **BACKGROUND**

Site history prior to July 1990 is covered in previous quarterly summary reports.

- o July 1990, PACIFIC abandoned Wells MW-3, MW-4 and MW-6, and replaced these wells with one monitoring/extraction well (E-1A). → where?
- o August 1990, PACIFIC prepared and submitted a draft assessment report to ARCO discussing the findings of the April 1990 field investigation. - ?
- o September 1990, PACIFIC prepared a quarterly groundwater monitoring report for the April-June 1990 quarter; revised the August 1990 draft assessment report to include the July 1990 field investigation; conducted quarterly sampling of site wells.

## **SOIL CONDITIONS**

No change from last quarter.

## **QUARTERLY GROUNDWATER MONITORING**

Table 1 summarizes historical groundwater analytical results as of June 30, 1990. Figure 1 presents a groundwater contour map based on the June sampling event.

## **STATUS SUMMARY: REMEDIATION**

No change from last quarter.

#### **ANTICIPATED WORK FOR THE FOURTH QUARTER 1990**

- o Prepare and transmit the July-September 1990 quarterly groundwater monitoring results.
- o Complete and submit a technical assessment report discussing the results of the April and July 1990 groundwater investigations.
- o Continue quarterly groundwater monitoring of site wells.

Table 1  
**Quarterly Groundwater Monitoring Results**  
 ARCO Service Station 0608

Total Petroleum Hydrocarbons

Well Number	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	
MW-1	01/88	NA	300 *	20	50	10	80	
	06/21/89		-----Well Destroyed-----					
	12/12/89	Dry	NS	NS	NS	NS	NS	
	03/29/90	Dry	NS	NS	NS	NS	NS	
MW-2	01/88	NA	3,300 *	804	115	168	166	
	06/88		-----Well Destroyed-----					
MW-3	01/88	NA	1,800 *	20	20	80	60	
	03/07/89	NA	150,000	4,600	5,200	5,600	13,000	
	06/21/89	NA	63,000	2,700	5,800	3,300	12,000	
	12/12/89	NA	-----Insufficient Volume of Water for Sampling-----					
	03/29/90	NA	1,100,000	13,000	60,000	17,000	91,000	
	04/13/90	20.38	NS	NS	NS	NS	NS	
	05/08/90	20.04	NS	NS	NS	NS	NS	
	06/22/90	20.11	-----Insufficient Volume of Water for Sampling-----					
MW-4	01/88	NA	62,000 *	2,700	7,900	850	5,200	
	03/07/89	NA	84,000	2,400	3,400	2,500	7,600	
	06/21/89	NA	31,000	400	800	200	1,500	
	12/12/89	Dry	NS	NS	NS	NS	NS	
	03/29/89	NA	-----Insufficient Volume of Water for Sampling-----					
	04/13/90	20.38	NS	NS	NS	NS	NS	
	05/08/90	20.24	NS	NS	NS	NS	NS	
	06/22/90	20.24	-----Insufficient Volume of Water for Sampling-----					

Table 1  
**Quarterly Groundwater Monitoring Results**  
 ARCO Service Station 0608

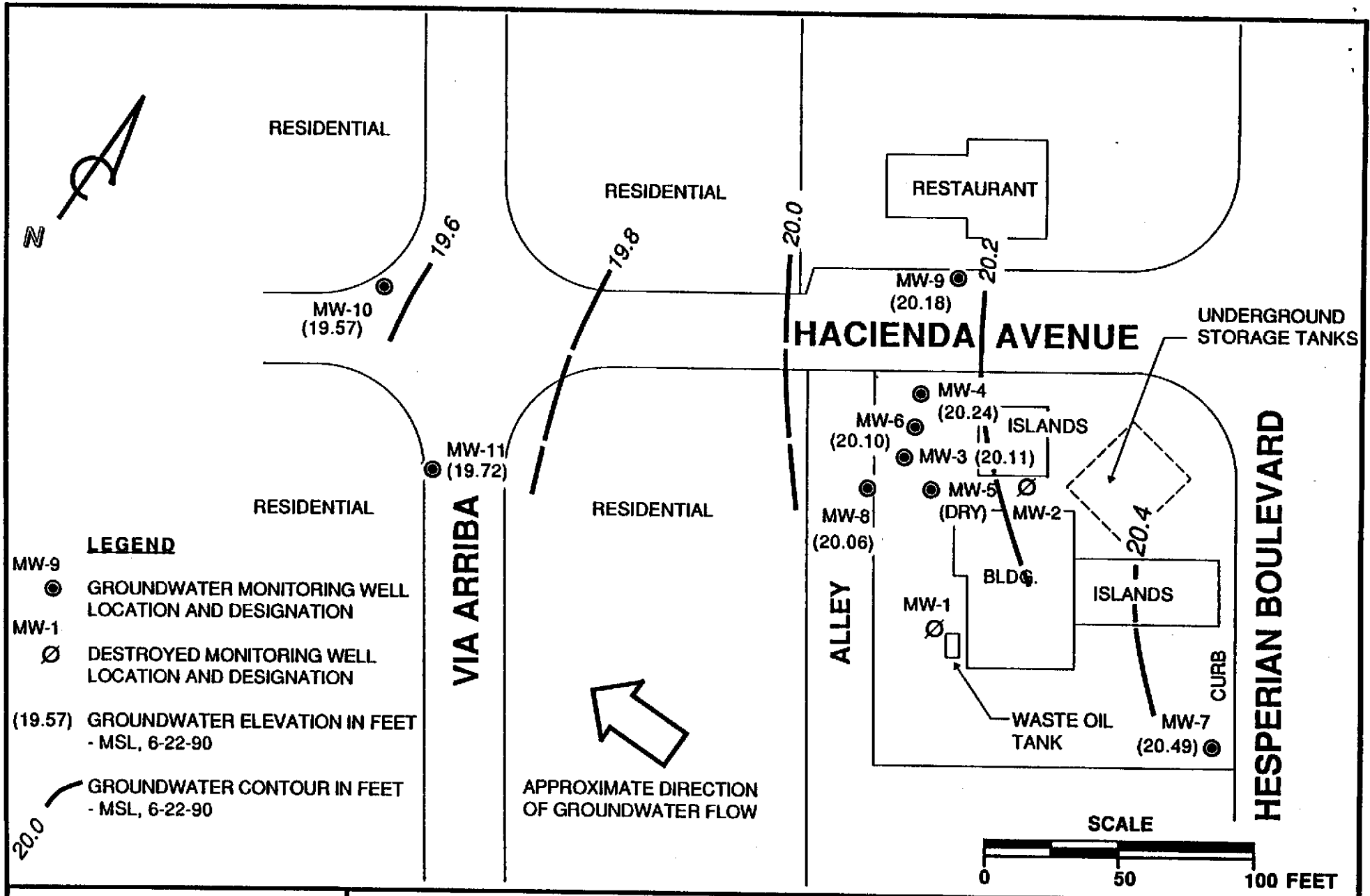
**Total Petroleum Hydrocarbons**  
 (continued)

Well Number	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-5	01/88	NA	31,000 *	4,000	2,700	3,800	5,500
	03/07/89	NA	1,300	340	ND	140	50
	06/21/89	NA	1,100	200	ND	130	40
	12/12/89	Dry	NS	NS	NS	NS	NS
	03/29/90	Dry	NS	NS	NS	NS	NS
	04/13/90	Dry	NS	NS	NS	NS	NS
	05/08/90	Dry	NS	NS	NS	NS	NS
	06/22/90	20.47	-----Insufficient Volume of Water for Sampling-----				
MW-6	06/21/89	NA	1,700	ND	ND	ND	ND
	12/12/89	NA	130	ND	ND	ND	ND
	03/29/90	31.61	NS	ND	ND	ND	ND
	04/13/90	20.36	NS	NS	NS	NS	NS
	05/08/90	18.97	NS	NS	NS	NS	NS
	06/22/90	20.10	150	15	5	4	13
MW-7	04/13/90	20.81	NS	NS	NS	NS	NS
	05/08/90	21.63	NS	NS	NS	NS	NS
	06/22/90	20.49	150	15	5	4	13
MW-8	04/13/90	20.39	NS	NS	NS	NS	NS
	05/08/90	20.77	NS	NS	NS	NS	NS
	06/22/90	20.06	3,700	370	12	330	28
MW-9	04/13/90	20.45	NS	NS	NS	NS	NS
	05/08/90	19.95	NS	NS	NS	NS	NS
	06/22/90	20.18	12,000	200	3	250	180

Table 1  
**Quarterly Groundwater Monitoring Results**  
 ARCO Service Station 0608

Total Petroleum Hydrocarbons  
 (continued)

Well Number	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-10	04/13/90	19.89	NS	NS	NS	NS	NS
	05/08/90	18.83	NS	NS	NS	NS	NS
	06/22/90	19.57	9,700	28	<0.3	131	210
MW-11	04/13/90	20.08	NS	NS	NS	NS	NS
	05/08/90	19.61	NS	NS	NS	NS	NS
	06/22/90	19.72	63	0.4	0.9	0.7	3
MSL = Mean sea level ppb = Parts per billion NA = Not available ND = Not detected NS = Not sampled. Survey of all wells completed during Second Quarter 1990. < = Denotes minimum laboratory detection limits * = Analysis reported as total volatile hydrocarbons.							



PACIFIC ENVIRONMENTAL GROUP, INC.

ARCO SERVICE STATION #608  
17601 Hesperian Boulevard  
San Lorenzo, California

GROUNDWATER CONTOUR MAP

FIGURE:  
1  
PROJECT:  
330-06.05