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3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2435

TRANSMITTAL

TO: Ms. Susan Hugo
ACHCSA
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

DATE: October 7, 1992 PROJECTNUMBER: 61035.04/61035.03 SUBJECT: ARCO Station 6148, 5131 Shattuck Avenue, Oakland, California

FROM: Joel Coffman TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	10/7/92	61035.04	Corrected Groundwater Table for Work Plan for Additional Suburface Investigation at ARCO Station 6148, 5131 Shattuck Avenue, Oakland, California.
			Corrected Groundwater Tables for Second Quarter 1992 Quarterly Groundwater Monitoring Report for ARCO Station 6148, 5131 Shattuck Avenue, Oakland, California.

THESE ARE TRANSMITTED as checked below:

[] For review and comment	[] Approved as submitted	[] Resubmit copies for approval
[X] As requested	[] Approved as noted	[] Submit copies for distribution
[] For approval	[] Return for corrections	[] Return corrected prints
[] For your files		

REMARKS:

Copies: 1 to RESNA project file no. 61035.03/04





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San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2435

> October 7, 1992 1005SHUG 61035.04

Ms. Susan Hugo Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Subject:

Corrected Groundwater Table for Work Plan for Additional Subsurface

Investigation at ARCO Station 6148, 5131 Shattuck Avenue, Oakland,

California.

Dear Ms. Hugo:

Enclosed is the corrected table for the Work Plan for Additional Subsurface Investigation dated September 29, 1992, as requested in our meeting on September 30, 1992. Please insert the corrected table (Table 2, Cumulative Groundwater Monitoring Data) into your copy.

If you have any questions or comments, please call us at (408) 264-7723.

Sincerely, RESNA Industries Inc.

Joel Coffman Project Geologist

Enclosure: Table 2, Cumulative Groundwater Monitoring Data



Work Plan for Additional Subsurface Investigation ARCO Station 6148, Oakland, California

October 5, 1992 61035.04

TABLE 2 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 6148 Oakland, California

Date Well Measured	Well Elevation	Depth to Water	Water Elevation	Floating Product
MW-1				
12-23-91		18.26	89.77	Sheen
01-07-92	108.03	17.44	90.59	Sheen
01-19-92		17.17	90.86	None
02-19-92		16.52	91.51	None
03-18-92		16.81	91.22	None
04-20-92		17.56	90.47	None
05-15-92		17.96	90.07	None
06-12-92		18.16	89.87	None
MW-2				
12-23-91		17.98	89.45	Sheen
01-07-92	107.43	17.15	90.28	Sheen
01-19-92		17.47	89,96	None
02-19-92		16.28	91.15	None
03-18-92		16.52	90.91	None
04-20-92		17.27	90.16	None
05-15-92		17.62	89.81	None
06-12-92		17.63*	89.80*	0.05
MW-3				
12-23-91		18.14	89.63	Sheen
01-07-92	107.77	17.26	90.51	Sheen
01-19-92		17.63	90.14	None
02-19-92		16.34	91.43	None
03-18-92		16.62	91.15	None
04-20-92		17.38	90.39	None
05-15-92		17.80	89.97	None
06-12-92		18.01	89.76	None

Measurements in feet.

Wells surveyed on December 27, 1991. Datum is City of Oakland = (USGS) + 3.00

Elevations in feet above mean sea level.

[•] indicates that the depth to water (DTW) and water elevation were corrected for the presence of floating product by the following method. Measured product thickness (PT) is multiplied by a correction factor of 0.8 and subtracted from DTW. (Adjusted DTW = DTW - [PT X 0.8]).





3315 Almaden Expressway, Suite 34 San Jose, CA 95118

Phone: (408) 264-7723 Fax: (408) 264-2435

> October 7, 1992 1005SHUG 61035.03

Ms. Susan Hugo Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Subject:

Corrected Groundwater Tables for Second Quarter 1992 Quarterly

Groundwater Monitoring Report for ARCO Station 6148, 5131 Shattuck

Avenue, Oakland, California.

Dear Ms. Hugo:

Enclosed are the corrected tables for the Second Quarter 1992 Groundwater Monitoring Report dated September 28, 1992, as requested in our meeting on September 30, 1992. Please insert these corrected tables (Table 1, Cumulative Groundwater Monitoring Data and EMCON Associates Summary of Groundwater Monitoring Data) into your copy.

If you have any questions or comments, please call us at (408) 264-7723.

Sincerely,

RESNA Industries Inc.

Joel Coffman Project Geologist

Enclosures: Table 1, Cumulative Groundwater Monitoring Data

Summary of Groundwater Monitoring Data (EMCON Associates)

RECEIVED



Consultants in Wastes Management and Environmental Control

To:

OCT - 2 1992 RESNA SANJOSE Sept 30, 1992 Date G70-39.01 **Project** Mr. Joel Coffman **RESNA/ Applied Geosystems** 3315 Almaden Expressway, Suite 34 San Jose, California 95050 We are enclosing: Description Copies Summary of Groundwater Monitoring Data Mail Information Sent by: Х For your: Х

Comments:

Enclosed is the revised summary of ground water monitoring from ARCO station 6148. Well MW-2's floating product thickness was incorrectly reported on the original summary sheet. I apologize for any inconveniences this may have caused RESNA. If you have any further questions, please call me at (408) 453-2266.

Jim Butera ブル

Summary of Groundwater Monitoring Data Second Quarter 1992 ARCO Service Station 6148 5131 Shattuck Avenue, Oakland, California micrograms per liter (µg/l) and milligrams per liter (mg/l)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH ¹ as Gasoline (µg/l)	Benzene (µg/l)	Toluene (μg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	TPH as Diesel (μg/l)	Total Oil and Grease, 5520B (mg/l
MW-1(25)	06/12/92	18.16	ND. ²	1,000.	290.	15.	10.	30.	<50*	<0.5
MW-2	Eb3	17.67	0.05	FP	FP	FP	FP	FP	FP	FP
MW-3(25)	06/12/92	18.01	ND.	46,000.	3,400.	4,200.	1,300.	5,400.	1,600.*	16.
FB-1. ⁴	06/12/92	NA.5	NA.	<50	<0.5	<0.5	<0.5	<0.5	NR.6	NR.

TPH. = Total petroleum hydrocarbons
 ND. = Not detected

^{3.} FP.= Floating product detected in well, no sample was taken 4. FB. = Field Blank

^{5.} NA. = Not applicable
6. NR. = Not reported; sample was not scheduled for analysis of the selected parameter
*. = Sample was taken on 7/2/92



Quarterly Groundwater Monitoring ARCO Station 6148, Oakland, California

September 28, 19 61035.6

TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 6148 Oakland, California

Date Well Measured	Well Elevation	Depth to Water	Water Elevation	Floating Product	
12-23-91		18.26	89.77	Sheen	
01-07-92	108,03	17.44	90.59	Sheen	
01-19-92		17.17	90.86	None	
02-19-92		16.52	91.51	None	
03-18-92		16.81	91,22	None	
04-20-92		17.56	90.47	None	
05-15-92		17.96	90.07	None	
06-12-92		18.16	89.87	None	
MW-2					
12-23-91		17.98	89.45	Sheen	
01-07-92	107.43	17.15	90.28	Sheen	
01-19-92		17.47	89.96	None	
02-19-92		16.28	91.15	None	
03-18-92		16.52	90.91	None	
04-20-92		17.27	90.16	None	
05-15-92		17.62	89.81	None	
06-12-92		17.63*	89.80*	0.05	
MW-3					
12-23-91		18.14	89.63	Sheen	
01-07-92	107.77	17.26	90.51	Sheen	
01-19-92		17.63	90.14	None	
02-19-92		16.34	91.43	None	
03-18-92		16.62	91.15	None	
04-20-92		17.38	90.39	None	
05-15-92		17.80	89.97	None	
06-12-92		18.01	89.76	None	

Measurements in feet.

Wells surveyed on December 27, 1991. Datum is City of Oakland = (USGS) + 3.00

Elevations in feet above mean sea level.

[•] indicates that the depth to water (DTW) and water elevation were corrected for the presence of floating product by the following method. Measured product thickness (PT) is multiplied by a correction factor of 0.8 and subtracted from DTW. (Adjusted DTW = DTW - [PT X 0.8]).