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LETTER REPORT QUARTERLY GROUNDWATER MONITORING Third Quarter 1992

at ARCO Station 2035 1001 San Pablo Avenue Albany, California

11-30-92

69036.04



3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2345

> November 30, 1992 1030MWHE 69036.04

Mr. Michael Whelan ARCO Products Company P.O. Box 5811 San Mateo, California 94402

Subject:

Third Quarter 1992 Groundwater Monitoring Report for ARCO Station 2035,

1001 San Pablo Avenue, Albany, California.

Mr. Whelan:

As requested by ARCO Products Company (ARCO), this letter report summarizes the results of the third quarter 1992 groundwater monitoring performed by ARCO's contractor, EMCON Associates (EMCON) of San Jose, at the above-referenced site. The objectives of this quarterly groundwater monitoring are to evaluate changes in the groundwater flow direction and gradient, and changes in concentrations of petroleum hydrocarbons in the local groundwater associated with the former waste-oil and former underground gasoline-storage tanks (USTs) at the site. The field work and laboratory analyses of groundwater samples during this quarter were performed under the direction of EMCON and included measuring depths to groundwater, subjectively analyzing groundwater for the presence of petroleum product, collecting groundwater samples from the wells for laboratory analyses, and directing a State-certified laboratory to analyze the groundwater samples. Field procedures and acquisition of field data were performed under the direction of EMCON; evaluation and warrant of their field data and field protocols is beyond RESNA Industries Inc.'s (RESNA's) scope of work. RESNA's scope of work was limited to interpretation of field and laboratory analytical data, which included evaluating trends in reported hydrocarbon concentrations in the local groundwater, the groundwater gradient, and direction of groundwater flow beneath the site.

The operating ARCO Station 2035 is located at the southeastern corner of the intersection of Marin and San Pablo Avenues in Albany, California, as shown on the Site Vicinity Map, Plate 1.

Prior to the present monitoring, RESNA (formerly Applied GeoSystems [AGS]) performed investigations related to the former underground waste-oil and former gasoline-storage tanks



at the site. In August 1989, RESNA performed a limited environmental site assessment (AGS, January 1990) which included drilling of five soil borings (B-1 through B-5) in the vicinity of the former gasoline underground storage tanks (USTs). In June through August 1991, RESNA performed an environmental investigation related to UST removal and replacement, which included the drilling of two soil borings (B-6 and B-7) in the area of new tank pit and observing excavation and removal of four USTs, (three 6,000-gallon USTs [T2 and T3], and one 10,000-gallon UST [T4]) and product lines (RESNA, September 1991). The removed gasoline-storage tanks were replaced with four 10,000 gallon gasoline-storage tanks. A 550-gallon waste-oil tank was removed from the site in 1977 during ARCO's conversion of the station to a mini-market In October and November 1991, RESNA performed a subsurface environmental investigation, which included the drilling of four soil borings (B-8 through B-11) and installation of recovery well RW-1 in boring B-8, and three groundwater monitoring wells (MW-1 through MW-3) in borings B-9 through B-11 respectively; performing an aquifer pumping test; performing well research for water supply and monitoring wells within a 1/2 mile radius of the site, and performing a record search for possible offsite sources of gasoline hydrocarbons detected in the soil and groundwater at the subject site (RESNA, March 1992). In October 1991, RESNA began quarterly monitoring of the onsite wells. The results of the above environmental investigations and assessments are presented in the reports listed in the References section. In August 1992 RESNA performed an additional environmental subsurface investigation, which included drilling and sampling of eight soil borings (B-12 through B-19), installation of six vapor extraction wells (VW-1 through VW-6) in borings B-14 through B-19, respectively, and performing a vapor extraction test. The results of this investigation will be summarized in a forthcoming report. The approximate locations of the former and existing USTs, the former waste-oil tank, and other pertinent features at the site are shown on Plate 2, Generalized Site Plan.

Groundwater Sampling and Gradient Evaluation

Depth-to-water levels (DTW) were measured by EMCON field personnel on July 15, August 7, and September 8, 1992. Quarterly sampling was performed by EMCON field personnel on September 8, 1992. The results of EMCON's field work on the site, including DTW levels and subjective analyses for the presence of product in the groundwater in MW-1 through MW-3, and RW-1, are presented on EMCON's Field Report sheets. These data are included in Appendix A.

The DTW levels, wellhead elevations, groundwater elevations, and subjective observations of product in the groundwater for this quarter and previous groundwater monitoring at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data. Floating



product was observed and its thickness was estimated in recovery well RW-1 during August and September monitoring events. Visual evidence of product or sheen was not noted in the other monitoring wells during this quarter. EMCON's DTW levels were used to evaluate the groundwater elevations. Groundwater elevations were highest in August. Groundwater elevations in wells MW-1 through MW-3 decreased approximately ½ foot between August 7 and September 8, 1992. Groundwater elevation in recovery well RW-1 increased 0.55 feet between July 15 and August 7, and did not change between August 7 and September 8, 1992. The groundwater gradients and flow directions evaluated for July, August and September 1992 are shown on the Groundwater Gradient Maps, Plates 3 through 5. The interpreted groundwater gradients and flow direction averaged approximately 0.02 toward the southwest, which is generally consistent with monitoring data from the last quarter.

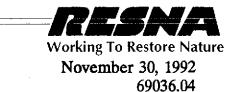
Groundwater monitoring wells MW-1 through MW-3 were purged and sampled by EMCON field personnel on September 8, 1992; RW-1 was not sampled due to the presence of floating product. Field data collected during purging and sampling of the onsite wells are summarized in EMCON's Water Sample Field Data Sheets, included in Appendix A. Approximately 3 to 5 well volumes were purged from wells MW-1 through MW-3. The purge water was removed from the site by a licensed hazardous waste hauler; the Monitoring Well Purge Water Disposal Form is also included in Appendix A.

Laboratory Methods and Results

Under the direction of EMCON, water samples collected from the wells were analyzed by Columbia Analytical Services, Inc. (California Department of Health Services Certification No. 1426) for total petroleum hydrocarbons as gasoline (TPHg) and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8020/DHS LUFT Method. Results of these and previous water analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Water Samples. TPHg and benzene concentrations are shown on Plate 6, TPHg/Benzene Concentrations in Groundwater. The Chain of Custody Records and Laboratory Analytical Reports are included in Appendix A.

Analytical results of groundwater samples from MW-1 through MW-3 for this quarter's monitoring indicate:

O Concentrations of TPHg were detected in well MW-1 (820 parts per billion [ppb], and were nondetectable (<50 ppb) in wells MW-2 and MW-3.



- O Concentrations of benzene were detected in well MW-1 (350 ppb) and in well MW-3 (5.3 ppb), and were nondetectable (<0.5 ppb) in well MW-2. Concentrations of benzene in wells MW-1 and MW-3 exceed the Maximum Contaminant Level (MCL) of 1.0 ppb benzene in drinking water.
- Concentrations of toluene, ethylbenzene and total xylenes were nondetectable in wells MW-1 (<5 ppb), MW-2 and MW-3 (<0.5 ppb). In the groundwater sample from well MW-1 the Method Reporting Limit (MRL) was raised due to a high analyte concentration requiring sample dilution. Concentrations of toluene were below the Department of Health Services Drinking Water Action Level (DWAL) of 100 ppb toluene, and concentrations of ethylbenzene and total xylenes were below the State MCL of 680 ppb ethylbenzene, and 1750 ppb total xylenes.

The following general trends were noted in reported hydrocarbon concentrations in groundwater from the three monitoring wells since the last quarterly monitoring: concentrations of TPHg decreased significantly in well MW-1 (from 2,900 ppb to 820 ppb) and in MW-3 (from 720 ppb to nondetectable), and remained nondetectable in MW-2; concentrations of benzene decreased significantly in monitoring well MW-1 (from 1,100 ppb to 350 ppb) and in MW-3 (from 210 ppb to 5.3 ppb), and remained nondetectable in MW-2; concentrations of toluene, ethylbenzene and total xylene decreased to nondetectable levels in MW-1 and MW-3, and remained nondetectable in MW-2. The thickness of floating product in recovery well RW-1 averaged approximately 0.5 foot during this quarter, which is 0.2 foot increase comparing to last quarter.

Product Removal

The floating product skimmer was inspected and floating product was measured and removed from well RW-1 by RESNA field personnel on July 23, August 5 and 17, and September 10 and 22, 1992. Quantities of floating product recovered and thickness of floating product during 1992 are presented in Table 3, Approximate Cumulative Product Recovered. The total cumulative recovered product from RW-1 is approximately 15 gallons.

Conclusions

Groundwater at the site has been impacted by petroleum hydrocarbons. The extent of petroleum hydrocarbons in the local groundwater has not been delineated with the exception of northwestern portion of the site (MW-2), where TPHg concentrations were less than 50 ppb. As indicated by Plate 6, TPHg/Benzene Concentrations in Groundwater, the greatest concentrations of petroleum hydrocarbons appear to be present in the location of the former



USTs in the northeastern portion of the site, and in the vicinity of RW-1, situated downgradient of the former tanks.

RESNA concludes that monthly groundwater monitoring, quarterly groundwater sampling, and biweekly measurement and removal of product from the skimmer installed in well RW-1 should continue at the site.

Distribution

RESNA recommends that copies of this report be forwarded to:

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

Mr. Richard Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612



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

Sincerely, RESNA Industries Inc.

Barbara Sieminski

James L. Nelson Certified Engineering Geologist # 1463

Assistant Project Geologist

Earling Diesenst

Enclosures:

References

GEOLOGIST OF CALIFORNIA Plate 1, Site Vicinity Map

Plate 2, Generalized Site Plan

Plate 3, Groundwater Gradient Map, July 15, 1992

Plate 4, Groundwater Gradient Map, August 7, 1992

Plate 5, Groundwater Gradient Map, September 8, 1992

Plate 6, TPHg/Benzene Concentrations in Groundwater, September 8, 1992

GEOLOG

JAMES LEWIS NELSON

GEOLOGIST

Table 1, Cumulative Groundwater Monitoring Data

Table 2, Cumulative Results of Laboratory Analyses of Water Samples

Table 3, Approximate Cumulative Product Recovered

Appendix A: EMCON's Field Report Sheets; Summary of Groundwater

Monitoring Data, Certified Analytical Reports with Chain-

of-Custody, and Water Sample Field Data Sheets

Monitoring Well Purge Water Disposal Form



REFERENCES

Applied GeoSystems. January 24, 1990. <u>Limited Environmental Site Assessment at ARCO Station 2035</u>. AGS 96036-1.

Department of Health Services, State of California. October 24, 1990. <u>Summary of California Drinking Water Standards.</u>

RESNA/Applied GeoSystems. April 29, 1991. Work Plan for Subsurface Investigations and Remediation at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.02.

RESNA/Applied GeoSystems. April 29, 1991. Addendum One to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.02

RESNA/Applied GeoSystems. June 24, 1991. Site Safety Plan for the ARCO Service Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.03S.

RESNA/Applied GeoSystems. September 11, 1991. <u>Underground Gasoline-Storage Tank</u> Removal and Replacement. AGS 69036.03.

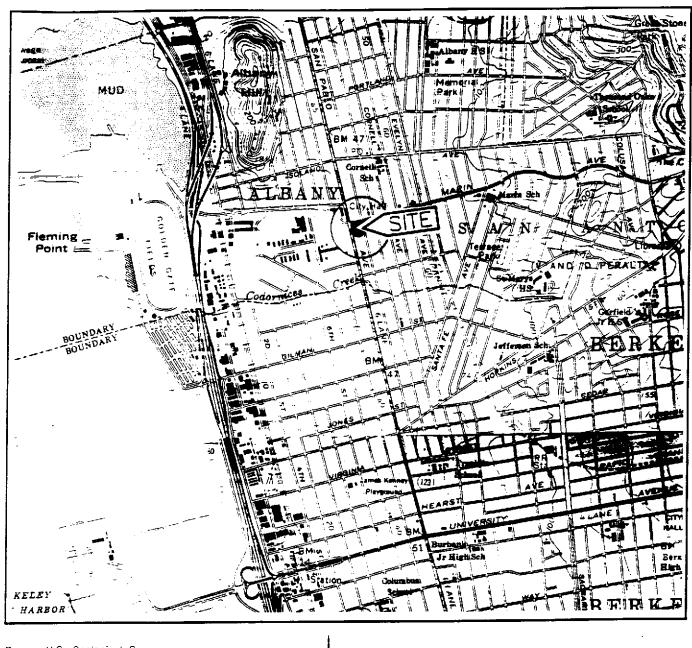
RESNA/Applied GeoSystems. September 24, 1991. <u>Addendum Two to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue</u>, <u>Albany, California</u>. AGS 69036.02

RESNA March 6, 1992. <u>Subsurface Environmental Investigation and Pump Test at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California.</u> 69036.02.

RESNA May 4, 1992. <u>Letter Report, Quarterly Groundwater Monitoring First Quarter</u> 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.04

RESNA May 28, 1992. Addendum Three to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.05

RESNA August 31, 1992. <u>Letter Report, Quarterly Groundwater Monitoring Second</u>
<u>Quarter 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California.</u> 69036.04



Base: U.S. Geological Survey
7.5-Minute Quadrangles
Richmond/Oakland West, California.
Photorevised 1980

LEGEND

(•) = Site Location

Approximate Scale

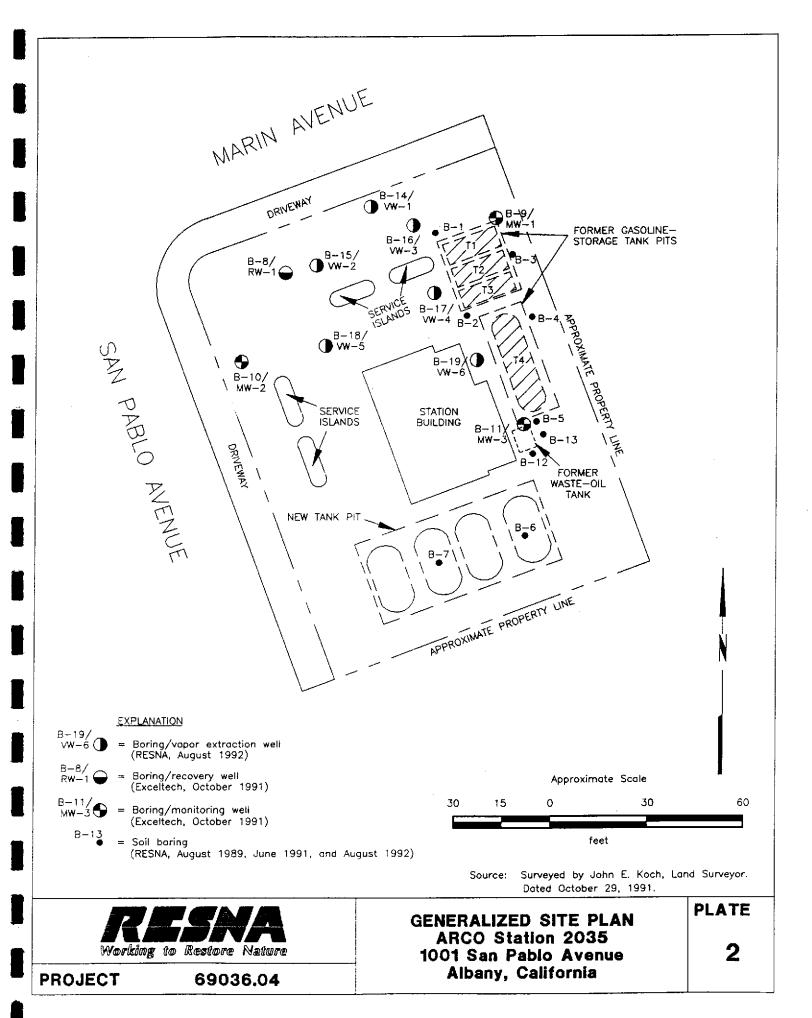
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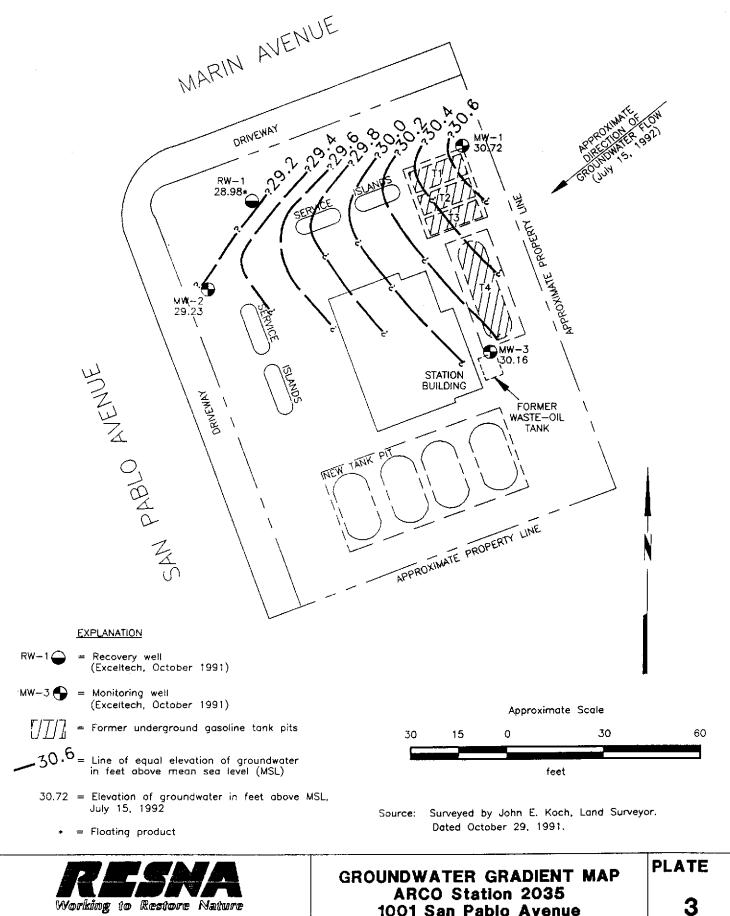
Working to Restore Nature

PROJECT 69036.04

SITE VICINITY MAP ARCO Station 2035 1001 San Pablo Avenue Albany, California PLATE

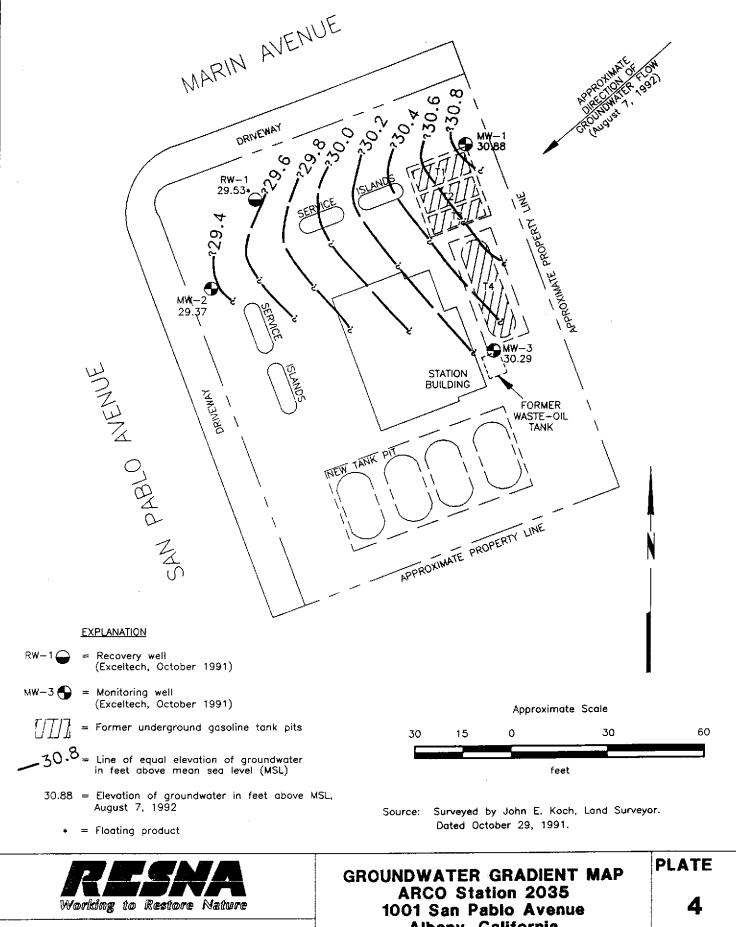
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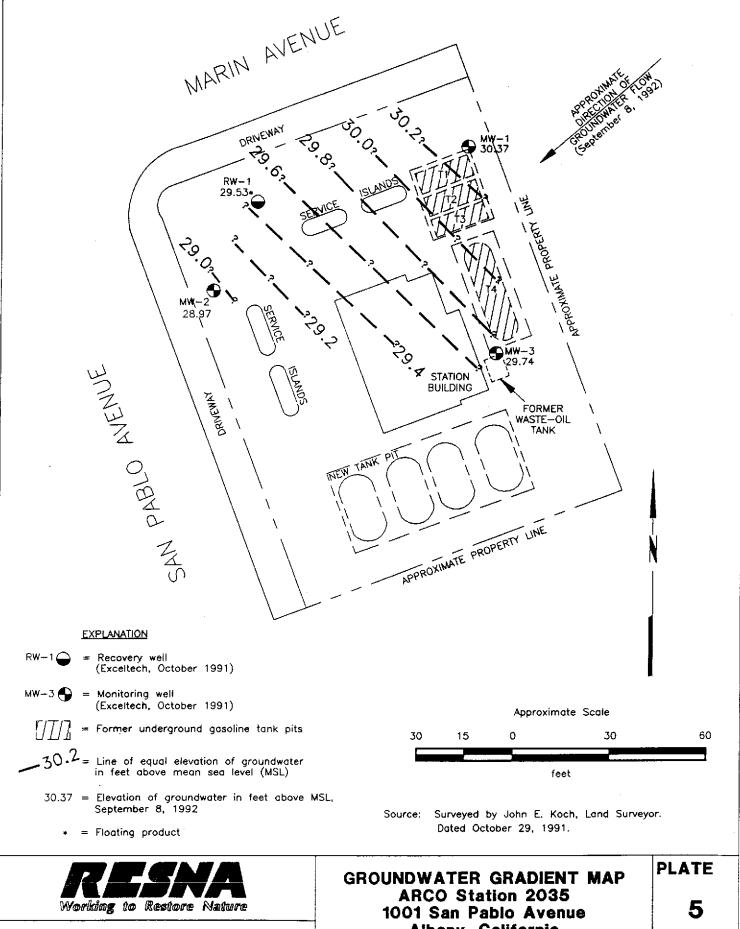
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1001 San Pablo Avenue Albany, California



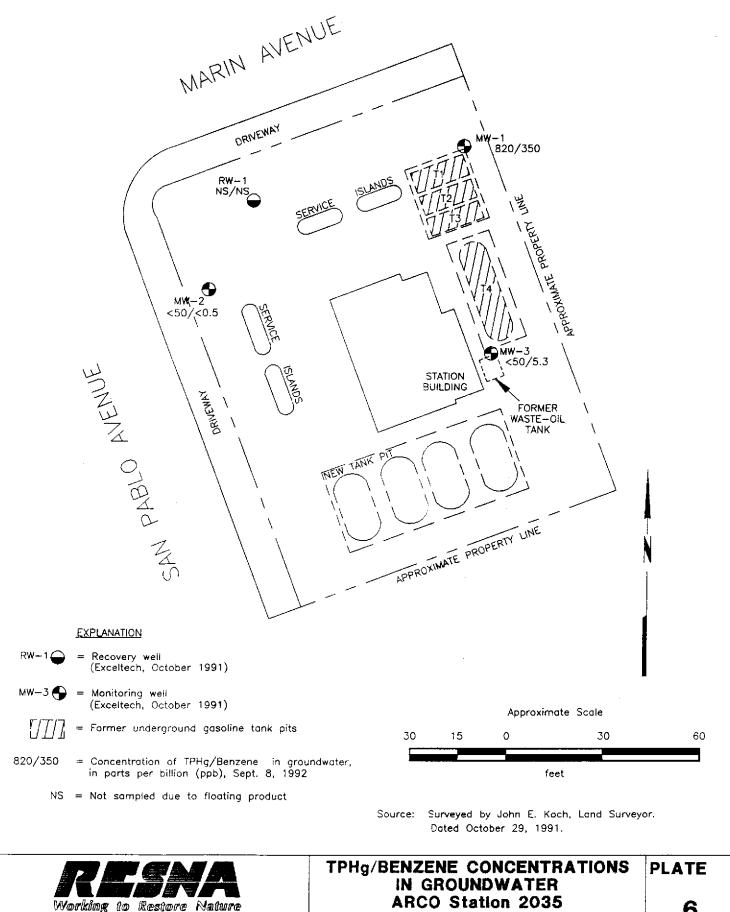
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Albany, California



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1001 San Pablo Avenue Albany, California

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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 2035 Albany, California (Page 1 of 2)

Well Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Evidence of Product	
 <u>MW-1</u>		:			
10/29/91	41.41	11.86	29.55	None	
11/07/91		10.94	30.47	None	
11/14/91		10.97	30.44	None	
01/19/92		10.06	31.35	None	
02/19/92		8.65	32.76	None	
03/19/92		8.33	33.08	None	
04/21/92		9.32	32.09	None	
05/12/92		9.82	31.59	None	
06/12/92		10.50	30.91	None	
07/15/92		10.69	30.72	None	
08/07/92		10.53	30.88	None	
09/08/92		11.04	30.37	None	
MW-2					
10/29/91	40.38	11.10	29.28	None	
11/07/91		11.20	29.18	None	
11/14/91		11.21	29.17	None	
01/19/92		10.44	29.94	None	
02/19/92		8.70	31.68	None	
03/19/92		8.84	31.54	None	
04/21/92		9.80	30.58	None	
05/12/92		10.29	30.09	None	
06/12/92		10.95	29.43	None	
07/15/92		11.15	29.23	None	
08/07/92		11.01	29.37	None	
09/08/92		11.41	28.97	None	
MW-3					
10/29/91	41.44	11.62	29.82	None	
11/07/91		11.52	29.92	None	
11/14/91		11.50	29.94	None	
01/19/92		10.56	30.88	None	
02/19/92		9.52	31.92	None	
03/19/92		9.01	32.43	None	
04/21/92		9.70	31.74	None	
05/12/92		10.29	31.15	None	
06/12/92		11.26	30.18	None	
07/15/92		11.28	30.16	None	
08/07/92		11.15	30. 29	None	
09/08/92		11.70	29.74	None	

See notes on Page 2 of 2.



TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 2035 Albany, California (Page 2 of 2)

Well Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Evidence of Product
RW-I				
10/29/91	40.33	10.85	29.48	Sheen
11/07/91		11.97	28.36	0.01
11/14/91		11.03	29.30	0.01
01/19/92		10.22*	30.11*	3.26
02/19/92		8.49*	31.84*	2.14
03/19/92		8.50*	31.83*	0.50
04/21/92		9.68*	30.65	0.03
05/12/92		10.47	29.86	Product not measured
06/12/92		11.41	28.92	Product not measured
07/15/92		11.35	28.98	None
08/07/92		10.80*	29.53*	0.02
09/08/92		10.80*	29.53*	0.62

Wellhead Elevation based on benchmark (B1198): A standard Bronze Disk in the sidewalk 0.8' behind the face of curb on the northerly side of Marin Avenue 6' +/- westerly of the curb return at the northeast corner of Marin Avenue and San Pablo Avenue at an elevation of 40.426 feet above mean sea level, City of Albany, California.

Depth-to-water measurements in feet below the top of the well casing.

*Adjusted water level due to product. The static water level in each well that was suspected to contain floating product was measured with an ORS® interface probe; this instrument is accurate to the nearest 0.01 foot. The probe contains two different sensor units, one for detecting the liquid/air interface, and one for distinguishing between water and hydrocarbon. The thickness of the floating product and the groundwater depths in each well were recorded. The recorded thickness of the floating product was then multiplied by 0.80 to obtain an approximate value for the displacement of water by the floating product. This approximate displacement value was then subtracted from the measured depth to water to obtain a calculated depth to water. These calculated groundwater depths were subtracted from surveyed wellhead elevations to calculate the differences in groundwater elevations.



TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES ARCO Station 2035 Albany, California

WELL DATE	ТРН	В	Т	E	x	TOG	voc	Cd	Cr	Pb	Ni	Zn
MW-1												
10/29/91	620	76	69	15	60	NA	NA	NA	NA	NA	NA	NA
03/19/92	6,500	2,600	89	42	290	NA	NA	NA	NA	NA	NA	NA
06/12/92	2,900	1,100	2.5	21	15	NA	NA	NA	NA	NA	NA	NA
09/08/92	820	350	<5*	<5*	<5*	NA	NA	NA	NA	NA	NA	NA
MW-2												
10/29/91	< 60	2.4	4.6	0.48	2.3	NA	ND	NA	NA	NA	NA	NA.
03/19/92	< 50	6.8	0.9	< 0.5	1.1	NA	NA	NA	NA	NA	NA	NA
06/12/92	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA
09/08/92	<50	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA
MW-3												
10/29/91	32	2.1	2.8	0.35	1.8	< 5.0	ND**	< 0.010	< 0.010	< 0.0050	< 0.050	0.045
03/19/92	2,100	780	8.8	16	58	NA	NA	NA	NA	NA	NA	NA
06/12/92	720	210	< 2.5*	23	4.0	NA	NA	NA	NA	NA	NA	NA
09/08/92	< 50	5 .3	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA
RW-1												
10/29/91			Not s	ampled-	-sheen							
03/19/92		No	ot sample	ed-float	ing prod	uct						
06/12/92		No	ot sample	d-float	ing prod	uct						
09/08/92		No	ot sample	ed-float	ing prod	uct						
MCL:		1	·	680	1,750			10	50	50		
DWAL:			100									

Results in parts per billion (ppb).

TPHg: Total petroleum hydrocarbons as gasoline by EPA method 5030/8015/8020.

B: benzene, T: toluene, E: ethylbenzene, X: total xylenes isomers

BTEX: Analyzed by EPA method 5030/8015/8020.

TOG: Total oil and grease by Standard method 5520 B&F.

VOC: Volatile organic compounds by EPA method 624.

*: Laboratory Raised Methods Reporting Limit (MRL) due to high analyte concentration requiring sample dilution.

All compounds were nondetectable except for toluene (3.0 ppb).

Cd: Cadmium by EPA method 200.7.

Cr. Chromium by EPA method 200.7.

Ni: Nickel by EPA method 200.7.

Zn: Zinc by EPA method 200.7.

Pb: Lead by EPA method 3010.

NA: Not analyzed.

Results reported below the laboratory detection limit.

ND: Not detected; detection limit varied according to analyte.

MCL: State Maximum Contaminant Level (October 1990).

DWAL: State Drinking Water Action Level (October 1990).

Sample Identification: W-11-MW-3

Monitoring well number Depth in feet

Water Sample



TABLE 3 APPROXIMATE CUMULATIVE PRODUCT RECOVERED ARCO Station 2035 Albany, California

Well Date	Product Thickness (feet)	Product Recovered (gallons)	
EAR: 1992			
<u>RW-1</u>			
01/29/92	3.35	5.0	
02/28/92	2.58	3.8	
03/12/92	1.28	2.0	
03/25/92	0.91	0.5	
05/29/92	0.23	0.3	
06/08/92	0.60	0.5	
06/30/92	0.15	0.25	
07/23/92	0.27	0.5	
08/05/92	0.45	0.25	
08/17/92	0.50	0.5	
09/10/92	0.75	0.5	
09/22/92	0.80	1.2	
	1992 TOTAL:	15.30	

Product measured and bailed by RESNA personnel.

APPENDIX A EMCON'S FIELD REPORT SHEETS; SUMMARY OF GROUNDWATER MONITORING DATA, CERTIFIED ANALYTICAL REPORTS WITH CHAIN-OF-CUSTODY, AND WATER SAMPLE FIELD DATA SHEETS

MONITORING WELL PURGE WATER DISPOSAL FORM



Consultants in Wastes Manage Environme

ts in Wastes ement and	•	Date	July 31, 1992
ental Control		Project	G70-17.01
To:			
Mr. Joel Coffman	1		
RESNA/ Applied		_	
	Expressway, Suite 34	_	
San Jose, Califo			
			
We are enclosin	ıg:		
Copies	Description		
1	Depth To Wate	r/Floating Product	Survey Results
	July 1992 mont	hly water level sur	vey, ARCO
	station 2035. 10	001 San Pablo Ave	enue, Albany, CA
For your:	X Information	Sent by: X	Mail
Comments:			
	er level data for the abo	ve mentioned site	are attached. Please
•	ve any questions: (408		
•			
			Jim Butera T/3.
	AG-LIAO -O		<u> </u>
Reviewed by:	AN STERN		
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		W _ Lobe	Moter_
		Røbert Po	orter, Senior Project
			Engineer.

FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

PROJECT #: G70-17.01 STATION ADDRESS: 1001 San Pablo Ave. Albany, CA DATE: 7-15-92 FIELD TECHNICIAN: SALEFFER DAY: Noal. ARCO STATION #: 2035 Well Well FIRST SECOND | DEPTH TO | FLOATING Locking WELL WELL DIW DEPTH TO DEPTH TO FLOATING PRODUCT Box Lid Well TOTAL ID Order Seal Secure Gasket Lock Cap WATER PRODUCT THICKNESS WATER DEPTH COMMENTS (feet) (feet) (feet) (feet) (feet) 425 MW-2 425 4es 3259 4es 11.15 11.15 29.09 ν . Ω Q, W 2 MW-3 465 3259 4es 11,28 11.28 120 N. D. 32.71 MW-1 1/25 965 3259 445 10.69 113.68 ND N() 30.09 4es 4es 4es 325 5 4es RW-1 4 11.35 11.35 ND 26.23 ND SURVEY POINTS ARE TOP OF WELL CASINGS





Date Sept 01 31,1992 Environmental Control **Project** G70-17.01 To: Mr. Joel Coffman RESNA/ Applied Geosystems 3315 Almaden Expressway, Suite 34 San Jose, California 95118 We are enclosing: Copies Description Depth To Water/Floating Product Survey Results August 1992 monthly water level survey, ARCO station 2035, 1001 San Pablo Avenue, Albany, CA For your: Information Sent by: Mail Comments: Monthly water level data for the above mentioned site are attached. Please call if you have any questions: (408) 453-2266. Jim Butera *プ*タ Reviewed by:

Robert Porter, Senior Project Engineer.

FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

PROJECT #: G70-17.01 STATION ADDRESS: 1001 San Pablo Ave. Albany, CA DATE: \$ -7.93 DAY: FR1 FIELD TECHNICIAN: Rich Sharfen ARCO STATION #: 2035 Well Locking FIRST SECOND Well DEPTH TO | FLOATING **WELL WELL** DIW Box Lid Well DEPTH TO DEPTH TO FLOATING PRODUCT TOTAL ID Order Seal WATER PRODUCT Secure Gasket WATER Lock Cap THICKNESS DEPTH **COMMENTS** (feet) (feet) (feet) (feet) (feet) Yes 10.53 MW-21 0K 4es OK 3253 N.D ND 10.53 29.2 MW-1 UZS OK MW-3 OK 3259 4cs 11.15 2 N.D 11.15 $\mathcal{N}()$ 32.3 3 MW-1251 3259 405 11.01 YESLOK 28,7 MW-2 11.01 N.O ND **RW-1** 10.82 NP INSTIMPER 3259 408 10.82 10.80 0.02 SURVEY POINTS ARE TOP OF WELL CASINGS



RECEIVED. SFD 9 9 1992

2572.3

Consultants in Wastes Management and		Date	Sept 22, 1992			
Environmental Control		Project	<u>G70-17.01</u>			
T						
To:						
Mr. Joel Coffman						
RESNA/ Applied						
	Expressway, Suite 34					
San Jose, Califo	rnia 95050					
We are enclosing	g:					
Copies	Description					
1	Depth To Water /	Floating Product Su	rvey Results			
1	Summary of Gro	undwater Monitoring	dwater Monitoring Data			
1		al Reports with Chai				
4	Water Sample Fi					
For your:	X Information	Sent by: X	Mail			
Comments:						
	e the data from the	· · ·	-			
	ce station 2035, 1001		•			
	monitoring is conduc		•			
<u>guidelines.</u>	Please call if you have	e any questions: (408	<u>3) 453-2266.</u>			
	0.50 ESO.		Jim Butera 🌃			
Reviewed by:						
	16 No: 4004		C A			
	13d 9/2	19th / Holoch	Clarto			
		Aobert Po	orter, Senior Project			
	S CALLY	1	Engineer.			

FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

	-	···										·
	PROJ	ECT#:	G70-17	'.01	STA	TION A	DDRESS :	1001 San F	ablo Ave. A	lbany, CA	DATE:	07-08-52
A	IRCO STAT	TON # :	2035		. FIE	ELD TE	CHNICIAN :	5 ivs	Taus			Tusz
DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	DEPTH TO WATER (feet)		FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-2	OK	485	0 K	3259	OK	H-1047	11.41 41	NO	NP	28.70	_
2	MW-3	OK	YES	οų	3255	OK	11.70	11.77	NO	NB	32,30	
3	MW-1	ok	425	UV	3257	OK	11.04	11.04	NP	NP		-
4	RW-1	012	455	-	3254	O (<		11.30	10.68	0.62	29.60 25.1 25.1	- SKIMMER IN Well Woderlinwell measured.
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					SU	RVEY	POINTS A	ARE TOP	OF WELL	CASINGS		

Summary of Groundwater Monitoring Data Third Quarter 1992 ARCO Service Station 2035 1001 San Pablo Avenue, Albany, California micrograms per liter (μg/l) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH ¹ as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)
MW-1(29)	09/08/92	11.04	ND. ²	820.	350 .	<5.	<5.	<5.
MW-2(27)	09/08/92	11.41	ND.	<50	<0.5	< 0.5	<0.5	<0.5
MW-3(32)	09/08/92	11.70	ND.	< 50	5.3	<0.5	<0.5	<0.5
RW-1	09/08/92	11.30	NS. ³	NS.	NS.	NS.	NS.	NS.
FB-1 ⁴	09/08/92	NA. ⁵	NA.	<50	<0.5	< 0.5	< 0.5	<0.5

^{1.} TPH. = Total petroleum hydrocarbons 2. ND. = Not detected

^{3.} NS. = Not sampled; well was not sampled due to detection of floating product

^{4.} FB. = Field blank

^{5.} NA. = Not applicable



September 15, 1992

Jim Butera EMCON Associates 1921 Ringwood Avenue San Jose, CA 95131

Re: EMCON Project No. G70-17.01

Arco Facility No. 2035

Dear Mr. Butera:

Enclosed are the results of the water samples submitted to our lab on September 9, 1992. For your reference, our service request number for this work is SJ92-1127.

All analyses were performed in accordance with the laboratory's quality assurance program.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.

Keoni A. Murphy

Laboratory Manager

Annelise J. Bazar

Regional QA Coordinator

le/KAM

Analytical Report

Client:

EMCON Associates

Project:

EMCON Project No. G70-17.01

Arco Facility No. 2035

Date Received: Work Order #:

09/09/92 SJ92-1127

Sample Matrix:

Water

BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method $\mu g/L$ (ppb)

-	e Name: nalyzed:	<u>MW-1 (29)</u> 09/11/92	<u>MW-2 (27)</u> 09/10/92	<u>MW-3 (32)</u> 09/11/92
Analyte	MRL			
Benzene	0.5	350.	ND	5.3
Toluene	0.5	<5 <i>.</i> *	ND	ND
Ethylbenzene	0.5	<5.*	ND	ND
Total Xylenes	0.5	<5.*	ND	ND
TPH as Gasoline	50	820.	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

* Raised MRL due to high analyte concentration requiring sample dilution.

Approved by

Ceru Maydry

Date_St // Kmber 15,1992

Analytical Report

Client:

EMCON Associates

Project: EMCON Project No. G70-17.01

Arco Facility No. 2035

Date Received: Work Order #:

09/09/92 SJ92-1127

Sample Matrix:

Water

BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method μ g/L (ppb)

	ple Name: Analyzed:	<u>FB-1</u> 09/10/92	Method Blank 09/10/92	Method Blank 09/11/92
Analyte	MRL			
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

APPENDIX A LABORATORY QC RESULTS

Client: **EMCON Associates**

Project: EMCON Project No. G70-17.01

Arco Facility No. 2035

Date Received: 09/09/92

Work Order #: SJ92-1127

QA/QC Report Initial Calibration Verification BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method Nanograms

Date Analyzed:

09/10/92

<u>Analyte</u>	True <u>Value</u>	<u>Result</u>	Percent <u>Recovery</u>	CAS Percent Recovery Acceptance <u>Criteria</u>
Benzene	250.	243.	97.	85-115
Toluene	250.	254.	102.	85-115
Ethylbenzene	250.	241.	96.	85-115
Total Xylenes	750.	693.	92.	85-115
TPH as Gasoline	2,500.	2,516.	101.	90-110

Date Analyzed:

09/11/92

	True		Percent	Percent Recovery Acceptance
<u>Analyte</u>	<u>Value</u>	<u>Result</u>	Recovery	<u>Criteria</u>
Benzene	250.	257.	103.	85-115
Toluene	250.	260.	104.	85-115
Ethylbenzene	250.	255.	102.	85-115
Total Xylenes	750.	728.	97.	85-115
TPH as Gasoline	2,500.	2,420.	97.	90-110

Total Petroleum Hydrocarbons

why Date Syptember 15/992

Client: **EMCON Associates**

Project: EMCON Project No. G70-17.01

Arco Facility No. 2035

Date Received: 09/09/92 Work Order #:

SJ92-1127

Sample Matrix: Water

QA/QC Report Surrogate Recovery Summary BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method

Sample Name	Date Analyzed	Percent Recovery a,a,a-Trifluorotoluene
MW-1 (29)	09/11/92	97.
MW-2 (27)	09/10/92	90.
MW-3 (32)	09/11/92	98.
FB-1	09/10/92	93.
MS	09/10/92	90.
DMS	09/10/92	77.
Method Blank	09/10/92	100.
Method Blank	09/11/92	103.
	CAS Acceptance Criteria	70-130

TPH Total Petroleum Hydrocarbons

KEELIN, AMINJULY Date September 15,1992

Client:

EMCON Associates

Project:

EMCON Project No. G70-17.01

Arco Facility No. 2035

Date Received: 09/09/92

Work Order #:

SJ92-1127

Sample Matrix:

Water

QA/QC Report Matrix Spike/Duplicate Matrix Spike Summary BTE EPA Methods 5030/8020 μ g/L (ppb)

Date Analyzed:

09/10/92

Percent Recovery

<u>Analytes</u>	Spike Level	Sample <u>Result</u>	Spike MS	Result DMS	MS	<u>DMS</u>	Acceptance <u>Criteria</u>
Benzene	25.	ND	28.2	33.8	113.	135.	39-150
Toluene	25.	ND	28.7	34.5	115.	138.	46-148
Ethylbenzene	25.	ND	28.6	33.7	114.	135.	32-160

ND None Detected at or above the method reporting limit

KEE1211/AM 114/hy Date September 15,1992

APPENDIX B

CHAIN OF CUSTODY

ARCO	Prod Division	ucts	Comp	pany Company	⇔		•	Tack O	rder No.	Ţ	-11/	10	7/1_	-71	, ,	,						Chain of Custody
ARCO Facil	tу по.	235	_	Cil	ly Spilitul	Alh	2 11/1	TASK U	ider No.	Project	manaç	ger	<u> </u>	70	-/	<u> </u>		2.0				Laboratory name
ARCO engir	ieer	KIL	p/	hV	13718	0	Telephor	Task O	21/34	(Consu Teleph	ltant) опе по	Inc 1	1/1	-00		<u>ラレ</u> Fa:	ヒ <u>ル</u> x no.	H		<i>1</i> ->	-045 XXC	2 Contract number
Consultant r	name	Fil	100	1)/	Acc 10	CIRT	ES	Address	127 /27	20	itant)	7	(<u>>)</u>		17	<u> (Cc</u> A .	onsultar A - C	11)40	5 4	<u> </u>	1/5	Contract number
				Matrix	10251		rvation	[(Consuna	ant)	<u> </u>		<i> U </i>	1		1/1	<u> </u>	<u>jevi</u>		8	Lus	<u> KKC</u>	Mothed of phioment
		g	·	1	<u> </u>	,,,,,,	1	<u>a</u>	<u>9</u>		£ã €	 %□	ă	03E				SE XO				Sunfler
Sample I.D.	Гар по.	Container no	Soil	Water	Other	lce	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEXTPH CFS BPA M602/8020/8015	TPH Modified 8015 Gas Desel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Semi	CAM Metals EPA (Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		Method of shipment Sampler Will deliver
110-1124	2 <u>-2</u>	2-		x		X	ICI	9-8-52	1515-		λ	_				=	=		<u> </u>	77.		Special detection Limit/reporting
m.2/27)3~4	v		x _		k	HC1	3.8.82	1302		Υ.					ļ						Accest Possible
Mu-3/32	ط-5(Z		х		X	Hel	3-8-57	14/0		χ											- Joshoce
Rw 16)	2		λ)	Hel	,	NO Sample		k			1								Special QA/QC
mu 2/27 mu 2/32 2w 1/ EB-1	 -1-3	2		λ		χ	He 1	5-8-52	15'20		X											Lovma!
															-							Remarks 2-40 M1 HC1 WA'S
																						WAS
												ļ										
																						G70-1701
																						Lab number 5592 - 1127
										_				·· · · ·								Turnaround time
Condition of	samole:	L					<u> </u>									L			<u></u>			Priority Rush 1 Business Day
Relinquished		pler,					Date 9-9	0K	Time 9:20	Recei		receive	اط: رء	10.				 <u>-</u> -	•			Rush 2 Business Days
Relinquished	l by						Date		Time	Recei	ed by	<i>N</i>					· · · · ·			-		Expedited 5 Business Days
Relinquished	l by						Date		Time	Receiv	ed by	4					Date 9-9	- 42		Time (ų	. 50 cm	Standard

EMCON ASSOCIATES YPE: Groun	PROJECT NO: PURGED BY: SAMPLED BY:			1	CAMBLEID	un.	
YPE: Groun	PURGED BY:				SMIVIPLE ID.	MW	/- /
			elling a	<	CLIENT NAME		
		_ 50				· · · · · · · · · · · · · · · · · · ·	ion Pable 1
	_					Alle	y. Cors
	d Water	Surface W	ater	Treatme	nt Effluent	Other	,
ASING DIAME	TER (inches):	2	3	4	4.5	6 Ot	her
CASING ELEV	'ATION (feet/MS	SL):	712	VOL	UME IN CASING	Gal):	12.17
	TO WATER (fe					· - ·	
	OF WELL (fee						
	(100				THE PORTUGE TO	, (gai.)	
DATE PURGE	:D: <u>05-0</u> 5	¥-5 ?	Start (240	10 Hr) 14	40	End (2400 Hr)	1505
	D: 04-08			10 Hr)		End (2400 Hr)	_
						·	
TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C (µmhos/cm (EMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1444	12.5	0478	604	•	109.4	Blown	HEAUY
1450	25	480	65		67.2	1	2
1456_	37	481	725		65,8	L	1
1300	49	476	730		69,8	j	1.
518	Recharge		7/7		694	1	
D. O. (ppm): _	NR	-	DOR: 1		<u> </u>	IOD	NIR
D. O. (ppini)		_	700a. <u></u>			(COBALT 0 - 100)	
IELD QC SAMI	PLES COLLECT	ED AT THIS W	/ELL (i.e. FE	3-1, XDUP-1): <u>FB</u>	-/	
					•		
	URGING EQUIP					<u>G EQUIPMENT</u>	
2' Bladder (•	Bailer (Teffon	⊗)		2" Bladder Pump	Baile	
Centrifugal Submersible	•	Bailer (PVC)	Obecii		ODL Sampler		r (Stainless Steel)
— Soomerside — Well Wizard	•	Bailer (Stainle Dedicated	iss di ee l))ipper Vell Wizard™	Subm	nersible Pump
her:				Other:	1011 1112010		icust.

REMARKS: -Meter Calibration: Date: 9-6-92 Time: 12:05 Meter Serial #: _____ Temperature °F: _____ (EC 1000 ___/__) (DI ___) (pH 7 ___/__) (pH 10 ___/__) (pH 4 ___/__) Reviewed By: _

WATER SAMPLE FIELD DATA SHEET PROJECT NO: 670-17.01 SAMPLE ID: MW-72 Rev. 2, 5/8
EMCON PURGED BY: 50 11.4 m C CLIENT NAME: ARCO 2035
SAMPLED BY: 5 (U.II. 9 m 5 LOCATION: 1001 SAN Publo AV
AlbanyCA
TYPE: Ground Water Surface Water Treatment Effluent Other
CASING DIAMETER (inches): 2 3 4 4.5 6 Other
CASING ELEVATION (feet/MSL):
DATE PURGED: 09-08-92 Start (2400 Hr) A:35- End (2400 Hr) 125-2 DATE SAMPLED: 09-08-92 Start (2400 Hr) 13:00 End (2400 Hr) 130-2
TIME (2400 Hr) (gal.) (units) (units) (umhos/cm@25°C) (°F) (visual) (visual
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):
PURGING EQUIPMENT SAMPLING EQUIPMENT
2" Bladder Pump Bailer (Teffon®) 2" Bladder Pump Bailer (Teffon®)
Centrifugal Pump Bailer (PVC) DDL Sampler Bailer (Stainless Steel)
— Submersible Pump — Bailer (Stainless Steel) — Dipper — Submersible Pump
— Well Wizard™ — Dedicated — Well Wizard™ — Dedicated Other: — Ot
EMARKS: LOCK #: 3259
Meter Calibration: Date: 9-8-99 Time: 12:05 Meter Serial #: Temperature °F: 79/

 $(EC 1000 /335 / (CCC) (DI _____) (pH 7 / (702 / 700) (pH 10 / (200 / (200)) (pH 4 / (3.95 / ____)))$

Reviewed By: -

Page $\frac{\mathcal{L}}{2}$ of $\frac{\mathcal{L}}{2}$

Location of previous calibration:

WATER SAMPLE FIELD DATA SHEET Rev. 2, 5
PROJECT NO: <u>670-17.01</u> SAMPLE ID: <u>MW-3</u>
EMCON PURGED BY: 5 Williams CLIENT NAME: ARCO 2035
SAMPLED BY: LOCATION: 100 1 SAN Pablo A
YPE: Ground Water Surface Water Treatment Effluent Other
ASING DIAMETER (inches): 2 3 4 4.5 6 Other
CASING ELEVATION (feet/MSL): 101 VOLUME IN CASING (gal.): 13,51
DEPTH TO WATER (feet): CALCULATED PURGE (gal.): _67.56
DEPTH OF WELL (feet): 32,30 ACTUAL PURGE VOL. (gal.): 4575-
DATE PURGED: <u>09-08-97</u> Start (2400 Hr) <u>/335</u> End (2400 Hr) <u>/358</u>
DATE SAMPLED: <u>69-08-92</u> Start (2400 Hr) End (2400 Hr)
TIME VOLUME PH E.C. TEMPERATURE COLOR TURBIDITY
(2400 Hr) (gal.) (units) (jumhos/cm@ 25° C) (°F) (visual) (visual) 13 4 7 13 5 6.01 701 68,1 BROWN HERVY
1346 27 5.44 749 64.4 L
1352 46.5 5.29 207 67.1 L
DRIER AFTER 45,5 GALLON
1417 Recharge 5.18. 604 66.8 BEOWN HANNY
D. O. (ppm): NR ODOR: Sich NR KIN.
(COBALT 0 - 100) (NTU 0 - 200)
TELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):
PURGING EQUIPMENT SAMPLING EQUIPMENT
— 2° Bladder Pump — Bailer (Teflon®) — 2° Bladder Pump — Bailer (Teflon®)
Centrifugal Pump — Bailer (PVC) — DDL Sampler — Bailer (Stainless Steel)
— Submersible Pump — Bailer (Stainless Steel) — Dipper — Submersible Pump
— Well Wizard™ —— Dedicated —— Well Wizard™ —— Dedicated
her: Other:
LINTEGRITY: OK LOCK#: 3255
MARKS: WELL BRIED AFTER 45TO CALLOAS TIME 1358

FIELD UG SAMPLES COL	LECTED AT THIS WELL (i.e.	FB-1, XDUP-1):	- Wil					
PURGING	EQUIPMENT	SAMPLING EQUIPMENT						
2" Bladder Pump	—— Bailer (Teflon®)	2° Bladder Pump	Bailer (Teflon®)					
1	Bailer (PVC)	DDL Sampler	Bailer (Stainless Steel)					
Submersible Pump	(= ======	Dipper						
Other:	0.00.02.00	— Well Wizard™ Other:	— Dedicated					
WELL INTEGRITY:	OK		LOCK#: 3255					
REMARKS: WELL	DRIED AFTER	45th Conbload To	m ce 1358					
Mater Collibration: Data:	T- Dince	Meter Serial #:	T					
) (pH 10/) (pH 4/)					
Location of previous calibration	on: <u> </u>	_						
		Reviewed By:						

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 670-17-01 SAMPLEID: ___ RW-/ PURGED BY: SILVING S CLIENT NAME: ARCO : 2035 LOCATION: 41 BANY SAMPLED BY: __ \(\sum \) \(\lambda \) \(\ Ground Water ____ Surface Water ____ Treatment Effluent ____ Other___ CASING DIAMETER (inches): 2____ 3____ 4 ____ 6____ Other__ 4.5 ____ CASING ELEVATION (feet/MSL): ___WR___ VOLUME IN CASING (gal.): _________ CALCULATED PURGE (gal.): _____ DEPTH OF WELL (feet): ____25./ ACTUAL PURGE VOL. (gal.): _ DATE PURCED: ____ Start (2400 Hr) _____ End (2400 Hr) ____ DATE SAMPLED: ___ Start (2400 Hr) _____ End (2400 Hr) _ TIME VOLUME рΗ E.C. TEMPERATURE COLOR TURBIDITY (2400 Hr) (gal.) (units) (jumhos/cm@ 25° C) (°F) (visual) (visuai) WA ODOR: ___ Nh D. O. (ppm): (COBALT 0 - 100) (NTU 0 - 200) FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): PURGING EQUIPMENT SAMPLING EQUIPMENT Bailer (Teflon®) __ 2° Bladder Pump Bailer (Teffon®) 2° Bladder Pump Centrifugal Pump Bailer (PVC) DDL Sampler Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Dipper - Submersible Pump - Well Wizard™ Well Wizard™ Dedicated Dedicated Other: . Other: WELL INTEGRITY: OK ____ LOCK#: 3259 REMARKS: PRODUCT. 69 NO SAMPLES TAKEN! Meter Calibration: Date: _____ Time: ____ Meter Serial #: ____ Temperature °F: ___ (EC 1000 ____/__) (DI ___) (pH 7 ___/__) (pH 10 ___/__) (pH 4 ___/__) Location of previous calibration: Signature: (ee acquire Reviewed By: \(\frac{\frac{1}{15}}{15} \) Page \(\frac{\frac{4}}{15} \) of \(\frac{4}{15} \)

MONITORING WELL PURGE WATER TRANSPORT FORM

	TON	067 3 2 130	
GENERATOR IN	(FURWIATION	RESHA	
NAME:	ARCO PRODUCT	S 341 Kree	
ADDRESS:	P.O. BOX 5811		
CITY,STATE,ZIP:	SAN MATEO, CA	2434	
DESCRIPTION OF WATER	SITES. AUGER RESATE G	ED DURING SAMPLING OR DEVELOPMENT OF MONITORING WELLS LOCATED AT VARIOUS ENERATED DURING THE INSTALLATION OF MONITORING WELLS AT VARIOUS SITES. IN DISSOLVED HYDROCARBONS.	9-9-92
THE GENERATOR CERTIFIES THAT AS DESCRIBED IS NON-HAZARO		Kyle Christie by Don De For (Typed or printed full name & signature)	(Date)
SITE INFORMA			
STA#	JOB#	ADDRESS	GALS
	Lauga BW	1001 SAN PABLO AVE., ALBANY, CA	41
A-2035	21024-DW	151 SOUTHGATE AVE., DALY CITY, CA	300
A-465	21032-BW	301-411 HIGH ST., OAKLAND, CA	136
A-TERM	21003-PW	43500 GRIMMER BLVD., FREMONT, CA	210
A-6206	20917-DW 20991-PW	43 SO. ABBOTT ST., MILPITAS, CA	304
A-2121	20959-DW	43 SO. ABBOTT ST., MILPITAS, CA	114
A-2121	20939-DW 20996-PW	98 SO. PARK VICTORIA, MILPITAS, CA	121
A-2100	20996-PW	1575 LANDESS AVE., MILPITAS, CA	136
A-6072	20993-PW	365 JACKSON ST., HAYWARD, CA	221
A-1319	21006-PW	2800 HOMESTEAD RD., SANTA CLARA, CA	328
A-2153 A-6019	21020-PW	2933 65TH ST., SACRAMENTO, CA	199
A-6019	210201	TOTAL GALLONS:	2,110
TRANSPORTER	INFORMATIC)N	
NAME:	BALCH PETROI		
ADDRESS:	930 AMES AVE.		
CITY,STATE,ZIP:	MILPITAS, CA	95035 PHONE #: (408) 942	-8686
·	PETERBILT	HURSCHEL WARD Huschel Warch	9-10-92
TRUCK ID #:	TETETETE	(Typed or printed full name & signature)	(Date)
TSD FACILITY	INFORMATIO	N	
NAME:	GIBSON ENVIR	ONMENTAL	
ADDRESS:	475 SEAPORT B	LVD	
CITY, STATE, ZIP:	REDWOOD CIT	Y, CA 94063 PHONE #: (415) 368	-5511
RELEASE #:	11320	(Typed or printed full name & signature)	$\frac{9-10-92}{\text{(Date)}}$