



EMCON

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ENVIRONMENTAL
PROTECTION

96 JUN -3 PM 3:19

Date May 23, 1996
Project 20805-130.004

To:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harborbay Parkway, Suite 250
Alameda, California 94502-6577

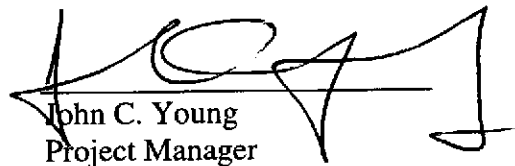
We are enclosing:

Copies	Description
<u>1</u>	<u>First quarter 1996 groundwater monitoring results</u> <u>for ARCO service station 2185, Oakland, California</u>

For your:	<u> X </u>	Use	Sent by:	<u> </u>	Regular Mail
	<u> </u>	Approval		<u> </u>	Standard Air
	<u> </u>	Review		<u> </u>	Courier
	<u> </u>	Information		<u> X </u>	Other <u>Cert. Mail</u>

Comments:

The enclosed groundwater monitoring report is being sent to you per the request of ARCO Products Company. Please call if you have questions or comments.


John C. Young
Project Manager

cc: Kevin Graves, RWQCB - SFBR
Michael Whelan, ARCO Products Company
File





Date:

May 23, 1996

Re: ARCO Station #

2185 • 9800 East 14th Street • Oakland, CA
First Quarter 1996 Groundwater Monitoring Results

" I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

A handwritten signature in black ink that reads "Michael R. Whelan". The signature is written in a cursive, flowing style.

Michael R. Whelan
Environmental Engineer



EMCON

1921 Ringwood Avenue • San Jose, California 95131-1721 • (408) 453-7300 • Fax (408) 437-9526

May 14, 1996
Project 20805-130.004

Mr. Michael Whelan
ARCO Products Company
P.O. Box 612530
San Jose, California 95161

Re: First quarter 1996 groundwater monitoring program results, ARCO service station 2185, Oakland, California

Dear Mr. Whelan:

This letter presents the results of the first quarter 1996 groundwater monitoring program at ARCO Products Company (ARCO) service station 2185, 9800 East 14th Street, Oakland, California (Figure 1). The quarterly monitoring program complies with Alameda County Health Care Services Agency (ACHCSA) requirements regarding underground tank investigations.

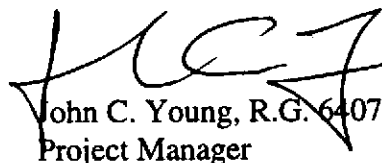
LIMITATIONS

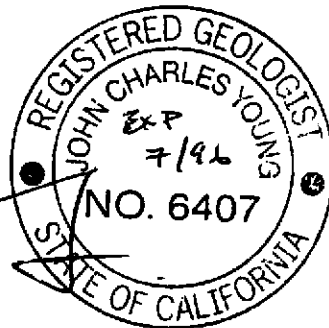
No monitoring event is thorough enough to describe all geologic and hydrogeologic conditions of interest at a given site. If conditions have not been identified during the monitoring event, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the scope, limitations, and cost of work performed during the monitoring event.

Please call if you have questions.

Sincerely,

EMCON


John C. Young, R.G. 6407
Project Manager



May 14, 1996

ARCO QUARTERLY REPORT

Station No.: 2185 Address: 9800 East 14th Street, Oakland, California
EMCON Project No. 20805-130.004
ARCO Environmental Engineer/Phone No.: Michael Whelan /(408) 453-1640
EMCON Project Manager/Phone No.: John C. Young /(408) 453-7300
Primary Agency/Regulatory ID No.: ACHCSA /Barney Chan

WORK PERFORMED THIS QUARTER (First- 1996):

1. Prepared and submitted quarterly groundwater monitoring report for fourth quarter 1995.
2. Performed quarterly groundwater monitoring for first quarter 1996.

WORK PROPOSED FOR NEXT QUARTER (Second- 1996):

1. Perform quarterly groundwater monitoring and sampling for second quarter 1996.
2. Prepare and submit quarterly groundwater monitoring report for first quarter 1996.

QUARTERLY MONITORING:

Current Phase of Project: Quarterly Groundwater Monitoring
Frequency of Sampling: Quarterly (groundwater)
Frequency of Monitoring: Quarterly (groundwater)
Is Floating Product (FP) Present On-site: Yes No
Bulk Soil Removed to Date : 2,550 cubic yards of TPH impacted soil
Bulk Soil Removed This Quarter : None
Water Wells or Surface Waters,
within 2000 ft., impacted by site: None
Current Remediation Techniques: None
Approximate Depth to Groundwater: 8.20 feet
Groundwater Gradient (Average): 0.009 ft/ft toward northwest (consistent with past events)

ATTACHED:

- Table 1 - Groundwater Monitoring Data, First Quarter 1996
- Table 2 - Historical Groundwater Elevation Data
- Table 3 - Historical Groundwater Analytical Data, Petroleum Hydrocarbons and Their Constituents
- Figure 1 - Site Location
- Figure 2 - Groundwater Data, First Quarter 1996
- Appendix A - Field Data Sheets, First Quarter 1996 Groundwater Monitoring Event
- Appendix B - Analytical Results and Chain of Custody Documentation, First Quarter 1996 Groundwater Monitoring Event

cc: **Barney Chan, ACHCSA**
Kevin Graves, RWQCB - SFBR

Table 1
Groundwater Monitoring Data
First Quarter 1996

ARCO Service Station 2185
9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L
MW-1	02-28-96	29.15	8.54	20.61	ND	NW	0.009	02-28-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-2	02-28-96	28.47	8.12	20.35	ND	NW	0.009	02-29-96	2200	<3	<3	130	27	<20	--
MW-3	02-28-96	28.57	8.35	20.22	ND	NW	0.009	02-29-96	5100	83	<5	160	57	640	--
MW-4	02-28-96	29.21	8.66	20.55	ND	NW	0.009	02-28-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-5	02-28-96	28.12	8.15	19.97	ND	NW	0.009	02-29-96	900	11	<1	59	29	99	--
MW-6	02-28-96	27.79	7.86	19.93	ND	NW	0.009	02-29-96	520	33	<5	480	160	<30	--
MW-7	02-28-96	27.88	8.19	19.69	ND	NW	0.009	02-29-96	<300*	<0.5	<0.5	<0.5	<0.5	<6	--
MW-8	02-28-96	28.08	8.30	19.78	ND	NW	0.009	02-29-96	160	<0.5	<0.5	<0.9	<0.6	32	--
MW-9	02-28-96	27.73	9.23	18.50	ND	NW	0.009	02-29-96	<50	<0.5	<0.5	<0.5	<0.5	<5	--
MW-10	02-28-96	27.55	9.38	18.17	ND	NW	0.009	02-29-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--

ft-MSL: elevation in feet, relative to mean sea level
MWN: ground-water flow direction and gradient apply to the entire monitoring well network
ft/ft: foot per foot
TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
µg/L: micrograms per liter
EPA: United States Environmental Protection Agency
MTBE: methyl-tert-butyl ether
ND: none detected
NW: northwest
--: not analyzed
*: chromatogram does not match the typical gasoline fingerprint

Table 2
 Historical Groundwater Elevation Data
 1994 - Present*

ARCO Service Station 2185
 9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Level Field Date	Top of	Depth to Water	Groundwater Elevation	Floating Product Thickness	Groundwater Flow Direction	Hydraulic Gradient
		Casing Elevation					
		ft-MSL	feet	ft-MSL	feet	MWN	foot/foot
MW-1	02-08-94	29.15	11.29	17.86	ND	NR	NR
MW-1	03-04-94	29.15	10.61	18.54	ND	NR	NR
MW-1	05-10-94	29.15	11.12	18.03	ND	NR	NR
MW-1	08-12-94	29.15	12.55	16.60	ND	SW	0.004
MW-1	09-23-94	29.15	11.27	17.88	ND	NR	NR
MW-1	11-22-94	29.15	11.12	18.03	ND	SW	0.003
MW-1	03-15-95	29.15	8.50	20.65	ND	NW	0.01
MW-1	05-30-95	29.15	10.28	18.87	ND	SW	0.005
MW-1	09-20-95	29.15	11.70	17.45	ND	WSW	0.005
MW-1	11-07-95	29.15	12.12	17.03	ND	WSW	0.004
MW-1	02-28-96	29.15	8.54	20.61	ND	NW	0.009
MW-2	02-08-94	28.47	10.85	17.62	ND	NR	NR
MW-2	03-04-94	28.47	10.16	18.31	ND	NR	NR
MW-2	05-10-94	28.47	10.70	17.77	ND	NR	NR
MW-2	08-12-94	28.47	12.12	16.35	ND	SW	0.004
MW-2	09-23-94	28.47	10.87	17.60	ND	NR	NR
MW-2	11-22-94	28.47	10.65	17.82	ND	SW	0.003
MW-2	03-15-95	28.47	8.37	20.10	ND	NW	0.01
MW-2	05-30-95	28.47	9.95	18.52	ND	SW	0.005
MW-2	09-20-95	28.47	11.37	17.10	ND	WSW	0.005
MW-2	11-07-95	28.47	11.73	16.74	ND	WSW	0.004
MW-2	02-28-96	28.47	8.12	20.35	ND	NW	0.009
MW-3	02-08-94	28.57	10.93	17.64	ND	NR	NR
MW-3	03-04-94	28.57	10.33	18.24	ND	NR	NR
MW-3	05-10-94	28.57	10.77	17.80	ND	NR	NR
MW-3	08-12-94	28.57	12.07	16.50	ND	SW	0.004
MW-3	09-23-94	28.57	10.94	17.63	ND	NR	NR
MW-3	11-22-94	28.57	10.76	17.81	ND	SW	0.003
MW-3	03-15-95	28.57	8.47	20.10	ND	NW	0.01
MW-3	05-30-95	28.57	10.03	18.54	ND	SW	0.005
MW-3	09-20-95	28.57	11.30	17.27	ND	WSW	0.005
MW-3	11-07-95	28.57	11.65	16.92	ND	WSW	0.004
MW-3	02-28-96	28.57	8.35	20.22	ND	NW	0.009

Table 2
 Historical Groundwater Elevation Data
 1994 - Present*

ARCO Service Station 2185
 9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Level Field Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Floating Product Thickness	Groundwater Flow Direction	Hydraulic Gradient
		ft-MSL	feet	ft-MSL	feet	MWN	
MW-4	02-08-94	29.21	11.54	17.67	ND	NR	NR
MW-4	03-04-94	29.21	10.84	18.37	ND	NR	NR
MW-4	05-10-94	29.21	11.38	17.83	ND	NR	NR
MW-4	08-12-94	29.21	12.82	16.39	ND	SW	0.004
MW-4	09-23-94	29.21	11.54	17.67	ND	NR	NR
MW-4	11-22-94	29.21	11.35	17.86	ND	SW	0.003
MW-4	03-15-95	29.21	8.69	20.52	ND	NW	0.01
MW-4	05-30-95	29.21	10.57	18.64	ND	SW	0.005
MW-4	09-20-95	29.21	12.02	17.19	ND	WSW	0.005
MW-4	11-07-95	29.21	12.42	16.79	ND	WSW	0.004
MW-4	02-28-96	29.21	8.66	20.55	ND	NW	0.009
MW-5	02-08-94	28.12	10.53	17.59	ND	NR	NR
MW-5	03-04-94	28.12	9.89	18.23	ND	NR	NR
MW-5	05-10-94	28.12	10.37	17.75	ND	NR	NR
MW-5	08-12-94	28.12	11.60	16.52	ND	SW	0.004
MW-5	09-23-94	28.12	10.52	17.60	ND	NR	NR
MW-5	11-22-94	28.12	10.29	17.83	ND	SW	0.003
MW-5	03-15-95	28.12	8.47	19.65	ND	NW	0.01
MW-5	05-30-95	28.12	9.69	18.43	ND	SW	0.005
MW-5	09-20-95	28.12	10.90	17.22	ND	WSW	0.005
MW-5	11-07-95	28.12	11.20	16.92	ND	WSW	0.004
MW-5	02-28-96	28.12	8.15	19.97	ND	NW	0.009
MW-6	02-08-94	27.79	10.28	17.51	ND	NR	NR
MW-6	03-04-94	27.79	9.67	18.12	ND	NR	NR
MW-6	05-10-94	27.79	10.13	17.66	ND	NR	NR
MW-6	08-12-94	27.79	11.44	16.35	ND	SW	0.004
MW-6	09-23-94	27.79	10.27	17.52	ND	NR	NR
MW-6	11-22-94	27.79	10.10	17.69	ND	SW	0.003
MW-6	03-15-95	27.79	7.75	20.04	ND	NW	0.01
MW-6	05-30-95	27.79	9.48	18.31	ND	SW	0.005
MW-6	09-20-95	27.79	10.75	17.04	ND	WSW	0.005
MW-6	11-07-95	27.79	11.06	16.73	ND	WSW	0.004
MW-6	02-28-96	27.79	7.86	19.93	ND	NW	0.009

Table 2
Historical Groundwater Elevation Data
1994 - Present*

ARCO Service Station 2185
9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Level Field Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Floating Product Thickness	Groundwater Flow Direction	Hydraulic Gradient
		ft-MSL	feet	ft-MSL	feet	MWN	
MW-7	02-08-94	27.88	10.83	17.05	ND	NR	NR
MW-7	03-04-94	27.88	10.13	17.75	ND	NR	NR
MW-7	05-10-94	27.88	10.68	17.20	ND	NR	NR
MW-7	08-12-94	27.88	12.05	15.83	ND	SW	0.004
MW-7	09-23-94	27.88	10.85	17.03	ND	NR	NR
MW-7	11-22-94	27.88	10.60	17.28	ND	SW	0.003
MW-7	03-15-95	27.88	8.13	19.75	ND	NW	0.01
MW-7	05-30-95	27.88	10.14	17.74	ND	SW	0.005
MW-7	09-20-95	27.88	11.52	16.36	ND	WSW	0.005
MW-7	11-07-95	27.88	11.70	16.18	ND	WSW	0.004
MW-7	02-28-96	27.88	8.19	19.69	ND	NW	0.009
MW-8	08-12-94	NR	11.43	NR	ND	NR	NR
MW-8	09-23-94	NR	10.99	NR	ND	NR	NR
MW-8	11-22-94	NR	10.42	NR	ND	NR	NR
MW-8	03-15-95	NR	8.43	NR	ND	NR	NR
MW-8	05-30-95	NR	9.86	NR	ND	NR	NR
MW-8	09-20-95	28.08	11.07	17.01	ND	WSW	0.005
MW-8	11-07-95	28.08	11.40	16.68	ND	WSW	0.004
MW-8	02-28-96	28.08	8.30	19.78	ND	NW	0.009
MW-9	09-20-95	27.73	11.67	16.06	ND	WSW	0.005
MW-9	11-07-95	27.73	11.70	16.03	ND	WSW	0.004
MW-9	02-28-96	27.73	9.23	18.50	ND	NW	0.009
MW-10	09-20-95	27.55	10.65	16.90	ND	WSW	0.005
MW-10	11-07-95	27.55	10.85	16.70	ND	WSW	0.004
MW-10	02-28-96	27.55	9.38	18.17	ND	NW	0.009

ft-MSL: elevation in feet, relative to mean sea level

MWN: ground-water flow direction and gradient apply to the entire monitoring well network

ND: none detected

NR: not reported; data not available or not measurable

SW: southwest

NW: northwest

WSW: west-southwest

*: For previous historical groundwater elevation data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 2185, Oakland, California*, (EMCON, February 27, 1996).

Table 3
 Historical Groundwater Analytical Data
 Petroleum Hydrocarbons and Their Constituents
 1994 - Present**

ARCO Service Station 2185
 9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Sample Field Date	TPHG	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	MTBE
		LUFT Method	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8240
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	03-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	05-10-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	08-12-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	11-22-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03-15-95	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	05-30-95	Not sampled: not scheduled for chemical analysis						
MW-1	09-20-95	Not sampled: not scheduled for chemical analysis						
MW-1	11-07-95	Not sampled: not scheduled for chemical analysis						
MW-1	02-28-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-2	03-04-94	3100	49	<2.5	180	98	--	--
MW-2	05-10-94	3100	39	<2.5	220	99	--	--
MW-2	08-12-94	1800	13	<2.5	120	35	--	--
MW-2	11-22-94	2300	45	<0.5	190	93	--	--
MW-2	03-15-95	2100	7.4	<2.5	130	39	--	--
MW-2	05-30-95	1700	3.3	<2.5	120	31	--	--
MW-2	09-21-95	1200	1	<1	68	16	<5	--
MW-2	11-07-95	1100	<3	<3	74	14	<20	--
MW-2	02-29-96	2200	<3	<3	130	27	<20	--
MW-3	03-04-94	17000	50	<10	790	1600	--	--
MW-3	05-10-94	14000	32	<10	710	1200	--	--
MW-3	08-12-94	13000	37	<10	640	970	--	--
MW-3	11-22-94	15000	150	<10	1300	2000	--	--
MW-3	03-15-95	2000	<2.5	<2.5	88	82	--	--
MW-3	05-30-95	2000	3.2	<2.5	70	46	--	--
MW-3	09-21-95	2100	12	<3	77	38	280	--
MW-3	11-07-95	3000	18	<3	120	62	--	430
MW-3	02-29-96	5100	83	<5	160	57	640	--

Table 3
 Historical Groundwater Analytical Data
 Petroleum Hydrocarbons and Their Constituents
 1994 - Present**

ARCO Service Station 2185
 9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Sample Field Date	TPHC LUFT Method	Benzene EPA 8020	Toluene EPA 8020	Ethylbenzene EPA 8020	Total Xylenes EPA 8020	MTBE EPA 8020	MTBE EPA 8240
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	03-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	05-10-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	08-12-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	11-22-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	03-15-95	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	05-30-95	Not sampled: not scheduled for chemical analysis						
MW-4	09-20-95	Not sampled: not scheduled for chemical analysis						
MW-4	11-07-95	Not sampled: not scheduled for chemical analysis						
MW-4	02-28-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-5	03-04-94	540	0.9	0.6	16	6.3	--	--
MW-5	05-10-94	1300	11	<2.5	110	68	--	--
MW-5	08-12-94	1500	10	<2.5	110	30	--	--
MW-5	11-22-94	84	1	<0.5	5	2	--	--
MW-5	03-15-95	170	5.6	<0.5	17	11	--	--
MW-5	05-30-95	53	0.6	<0.5	4.8	2.8	--	--
MW-5	09-21-95	1500	47	2	120	86	70	--
MW-5	11-07-95	140	4.5	<0.5	8.3	16	10	--
MW-5	02-29-96	900	11	<1	59	29	99	--
MW-6	03-04-94	5800	320	<5	510	360	--	--
MW-6	05-10-94	11000	470	<10	880	650	--	--
MW-6	08-12-94	4400	170	<10	390	210	--	--
MW-6	11-22-94	7300	390	<5	940	640	--	--
MW-6	03-15-95	3600	77	<5	420	180	--	--
MW-6	05-30-95	5000	68	<5	530	250	--	--
MW-6	09-21-95	3300	36	<5	360	120	<30	--
MW-6	11-07-95	3500	33	<5	410	110	<30	--
MW-6	02-29-96	520	33	<5	480	160	<30	--

Table 3
 Historical Groundwater Analytical Data
 Petroleum Hydrocarbons and Their Constituents
 1994 - Present**

ARCO Service Station 2185
 9800 East 14th Street, Oakland, California

Date: 05-07-96

Well Designation	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L
MW-7	03-04-94	320*	<0.5	<0.5	<0.5	<0.5	--	--
MW-7	05-10-94	330*	0.6	<0.5	<0.5	<0.5	--	--
MW-7	08-12-94	360*	<0.5	<0.5	<0.5	<0.5	--	--
MW-7	11-22-94	<50	<0.5	<0.5	<0.5	<0.5	--	--
MW-7	03-15-95	150*	<0.5	<0.5	<0.5	<0.5	--	--
MW-7	05-30-95	110*	<0.5	<0.5	<0.5	<0.5	--	--
MW-7	09-20-95	<400*	<0.8	<0.5	<0.5	<0.5	<7	--
MW-7	11-07-95	<500	2	<1	<1	<1	<20	--
MW-7	02-29-96	<300*	<0.5	<0.5	<0.5	<0.5	<6	--
MW-8	08-12-94	5100	12	<5	470	53	--	--
MW-8	11-22-94	2300	16	<0.5	140	4	--	--
MW-8	03-15-95	280	<0.5	<0.5	0.7	0.7	--	--
MW-8	05-30-95	390	<0.5	<0.5	<2	1.6	--	--
MW-8	09-21-95	470	<0.5	<0.5	3	1.2	52	--
MW-8	11-07-95	280	<0.5	<0.5	0.6	<0.5	94	--
MW-8	02-29-96	160	<0.5	<0.5	<0.9	<0.6	32	--
MW-9	09-20-95	<50	<0.5	<0.5	<0.5	<0.5	<4	--
MW-9	11-07-95	<50	<0.5	<0.5	<0.5	<0.5	<4	--
MW-9	02-29-96	<50	<0.5	<0.5	<0.5	<0.5	<5	--
MW-10	09-21-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-10	11-07-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--
MW-10	02-29-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--

TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method

µg/L: micrograms per liter

EPA: United States Environmental Protection Agency

MTBE: Methyl-tert-butyl ether

-- : not analyzed

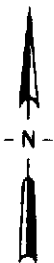
*: chromatogram does not match the typical gasoline fingerprint

** : For previous historical analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 2185, Oakland, California, (EMCON, February 27, 1996).*



Base map from USGS 7.5' Quad. Maps:
Oakland East and San Leandro, California.
Photorevised 1980.

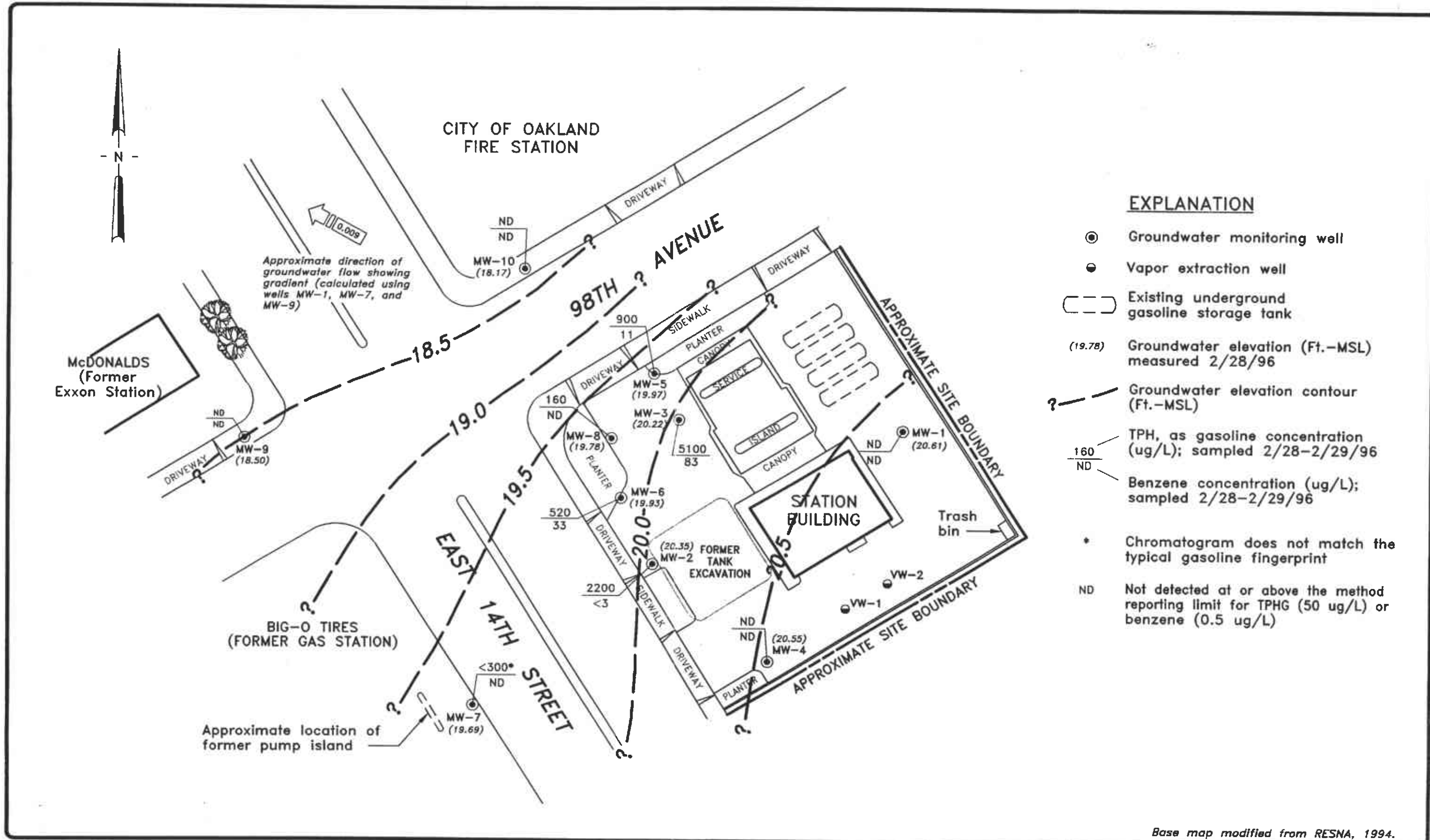
Scale : 0 2000 4000 Feet



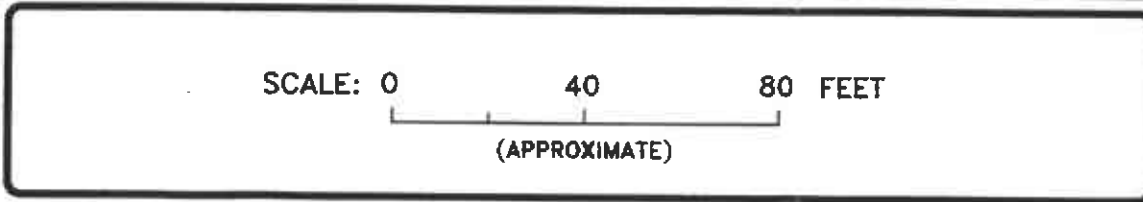
ARCO PRODUCTS COMPANY
SERVICE STATION 2185, 9800 E. 14TH STREET
QUARTERLY GROUNDWATER MONITORING
OAKLAND, CALIFORNIA

SITE LOCATION

FIGURE
1
PROJECT NO.
805-130.04



Base map modified from RESNA, 1994.



ARCO PRODUCTS COMPANY
SERVICE STATION 2185, 9800 E. 14TH STREET
QUARTERLY GROUNDWATER MONITORING
OAKLAND, CALIFORNIA

GROUNDWATER DATA
FIRST QUARTER 1996

FIGURE NO.
2
PROJECT NO.
805-130.004

APPENDIX A

**FIELD DATA SHEETS, FIRST QUARTER 1996
GROUNDWATER MONITORING EVENT**

**FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY**

PROJECT # : 21775-236.002 STATION ADDRESS : 9800 East 14th Street, Oakland DATE : 2-28-96

ARCO STATION # : 2185 FIELD TECHNICIAN : M. GALLEGOS DAY : Wednesday

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-9	OK	YES	OK	YES	OK	9.23	9.23	ND	ND	22.5	
2	MW-10	OK	YES	OK	YES	OK	9.38	9.38	ND	ND	22.9	
3	MW-1	OK	YES	OK	ARCO	OK	8.54	8.54	ND	ND	23.6	
4	MW-4	OK	YES	OK	ARCO	OK	8.66	8.66	ND	ND	23.8	
5	MW-7	OK	YES	OK	YES	OK	8.19	8.19	ND	ND	25.3	
6	MW-5	OK	YES	OK	ARCO	OK	8.15	8.15	ND	ND	26.8	
7	MW-8	OK	YES	OK	ARCO	OK	8.30	8.30	ND	ND	22.5	
8	MW-2	OK	YES	OK	ARCO	OK	8.12	8.12	ND	ND	33.6	
9	MW-6	OK	YES	OK	ARCO	OK	7.86	7.86	ND	ND	27.8	
10	MW-3	OK	YES	OK	ARCO	OK	8.35	8.35	ND	ND	23.3	WATER TANK BOX
SURVEY POINTS ARE TOP OF WELL CASINGS												



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-1 (23)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>9.83</u>
DEPTH TO WATER (feet): <u>8.54</u>	CALCULATED PURGE (gal.): <u>29.91</u>
DEPTH OF WELL (feet): <u>23.6</u>	ACTUAL PURGE VOL (gal.): <u>30</u>

DATE PURGED: <u>2-28-96</u>	Start (2400 Hr) <u>1450</u>	End (2400 Hr) <u>1457</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1459</u>	End (2400 Hr) <u>---</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1454</u>	<u>10.0</u>	<u>5.99</u>	<u>618</u>	<u>62.4</u>	<u>BROWN</u>	<u>MOD</u>
<u>1456</u>	<u>20.0</u>	<u>6.45</u>	<u>616</u>	<u>62.9</u>	<u>BROWN</u>	<u>MOD</u>
<u>1457</u>	<u>30.0</u>	<u>6.49</u>	<u>620</u>	<u>62.8</u>	<u>BROWN</u>	<u>MOD</u>
---	---	---	---	---	---	---
---	---	---	---	---	---	---

D. O. (ppm): NR ODOR: NONE NR NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon®)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: GOOD LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-28-96 Time: 1500 Meter Serial #: 9024 Temperature °F: 64.8
(EC 1000 1027 / 1000) (DI ---) (pH 7 711 / 700) (pH 10 982 / 1000) (pH 4 484 / ---)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: [Signature] Page 1 of 10



EMCON
ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-2(33)

PURGED BY: M. Gallegos

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>16.64</u>
DEPTH TO WATER (feet): <u>8.12</u>	CALCULATED PURGE (gal.): <u>45.94</u>
DEPTH OF WELL (feet): <u>33.6</u>	ACTUAL PURGE VOL. (gal.): <u>50</u>

DATE PURGED: 2-29-96 Start (2400 Hr) 1257 End (2400 Hr) 1304

DATE SAMPLED: ↓ Start (2400 Hr) 1310 End (2400 Hr)

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (μ mhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (Visual)	TURBIDITY (Visual)
<u>1300</u>	<u>17</u>	<u>6.45</u>	<u>634</u>	<u>69.8</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1301</u>	<u>34</u>	<u>6.71</u>	<u>672</u>	<u>68.5</u>	<u>GRAY</u>	<u>HEAVY</u>
<u>1304</u>	<u>50</u>	<u>6.69</u>	<u>678</u>	<u>67.9</u>	<u>GRAY</u>	<u>HEAVY</u>

D. O. (ppm): NR ODOR: STRONG NR NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR
(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT

- 2" Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Well Wizard™
- Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
- DDL Sampler
- Dipper
- Well Wizard™
- Bailer (Teflon®)
- Bailer (PVC)
- Bailer (Stainless Steel)
- Dedicated
- Bailer (Stainless Steel)
- Submersible Pump
- Dedicated
- Other: _____

WELL INTEGRITY: Good LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: M. Gallegos Reviewed By: SJA Page 2 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3. 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-3 (23)

PURGED BY: M. GALLEGO

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>9.76</u>
DEPTH TO WATER (feet): <u>8.35</u>	CALCULATED PURGE (gal.): <u>29.30</u>
DEPTH OF WELL (feet): <u>23.3</u>	ACTUAL PURGE VOL. (gal.): <u>30</u>

DATE PURGED: <u>2-29-96</u>	Start (2400 Hr) <u>1333</u>	End (2400 Hr) <u>1337</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1345</u>	End (2400 Hr) <u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1334</u>	<u>10</u>	<u>6.97</u>	<u>468</u>	<u>64.2</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1336</u>	<u>20</u>	<u>6.70</u>	<u>502</u>	<u>64.9</u>	<u>CLEAR</u>	<u>CLEAR</u>
<u>1337</u>	<u>30</u>	<u>6.69</u>	<u>510</u>	<u>65.3</u>	<u>CLEAR</u>	<u>CLEAR</u>

D. O. (ppm): NR ODOR: STRONG COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT

- 2" Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Well Wizard™
- Bailer (Teflon®)
- Bailer (PVC)
- Bailer (Stainless Steel)
- Dedicated

Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
- Bailer (Teflon®)
- Bailer (Stainless Steel)
- Submersible Pump
- Dedicated
- DDL Sampler
- Dipper
- Well Wizard™

Other: _____

WELL INTEGRITY: Good LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: [Signature] Page 3 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-4 (23)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL):	<u>NR</u>	VOLUME IN CASING (gal.):	<u>11.05</u>
DEPTH TO WATER (feet):	<u>6.88</u>	CALCULATED PURGE (gal.):	<u>33.16</u>
DEPTH OF WELL (feet):	<u>23.8</u>	ACTUAL PURGE VOL. (gal.):	<u>53.5</u>

DATE PURGED:	<u>2-28-96</u>	Start (2400 Hr)	<u>1505</u>	End (2400 Hr)	<u>1509</u>
DATE SAMPLED:	<u>↓</u>	Start (2400 Hr)	<u>1513</u>	End (2400 Hr)	<u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1507</u>	<u>11.5</u>	<u>6.53</u>	<u>547</u>	<u>69.9</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1508</u>	<u>22.5</u>	<u>6.35</u>	<u>560</u>	<u>68.0</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1509</u>	<u>33.5</u>	<u>6.29</u>	<u>559</u>	<u>68.7</u>	<u>CLEAR</u>	<u>CLEAR</u>

D. O. (ppm): NR ODOR: NR COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT

- 2" Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Well Wizard™
- Bailer (Teflon®)
- Bailer (PVC)
- Bailer (Stainless Steel)
- Dedicated

Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
- Bailer (Teflon®)
- Bailer (Stainless Steel)
- Submersible Pump
- Dedicated
- DDL Sampler
- Dipper
- Well Wizard™

Other: _____

WELL INTEGRITY: OK LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-28-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature]

Reviewed By: [Signature]

Page 4 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-5 (26)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>12.18</u>
DEPTH TO WATER (feet): <u>8.15</u>	CALCULATED PURGE (gal.): <u>36.55</u>
DEPTH OF WELL (feet): <u>26.8</u>	ACTUAL PURGE VOL. (gal.): <u>37</u>

DATE PURGED: <u>2-29-96</u>	Start (2400 Hr) <u>1218</u>	End (2400 Hr) <u>1225</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1230</u>	End (2400 Hr) <u>---</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1221</u>	<u>12.5</u>	<u>6.68</u>	<u>488</u>	<u>73.9</u>	<u>CLEAR</u>	<u>CLEAR</u>
<u>1224</u>	<u>25</u>	<u>6.77</u>	<u>516</u>	<u>67.9</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1225</u>	<u>37</u>	<u>6.70</u>	<u>518</u>	<u>67.1</u>	<u>CLEAR</u>	<u>TRACE</u>
---	---	---	---	---	---	---

D. O. (ppm): NR ODOR: NONE COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon®)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: [Signature] Page 5 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3. 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-6 (27)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL):	<u>NR</u>	VOLUME IN CASING (gal.):	<u>13.02</u>
DEPTH TO WATER (feet):	<u>7.86</u>	CALCULATED PURGE (gal.):	<u>39.08</u>
DEPTH OF WELL (feet):	<u>27.8</u>	ACTUAL PURGE VOL. (gal.):	<u>39.5</u>

DATE PURGED:	<u>2-29-96</u>	Start (2400 Hr)	<u>1315</u>	End (2400 Hr)	<u>1321</u>
DATE SAMPLED:	<u>↓</u>	Start (2400 Hr)	<u>1326</u>	End (2400 Hr)	<u>---</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1318</u>	<u>13.5</u>	<u>6.55</u>	<u>662</u>	<u>65.4</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1319</u>	<u>26.5</u>	<u>6.67</u>	<u>687</u>	<u>66.5</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1321</u>	<u>39.5</u>	<u>6.73</u>	<u>680</u>	<u>66.5</u>	<u>GRAY</u>	<u>HEAVY</u>

D. O. (ppm): NR ODOR: STIGAT COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailor (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailor (Teflon®)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailor (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailor (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailor (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: RA Page 6 of 10



EMCON
ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-7 (25)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA.

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2X 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>2.79</u>
DEPTH TO WATER (feet): <u>8.19</u>	CALCULATED PURGE (gal.): <u>8.38</u>
DEPTH OF WELL (feet): <u>25.3</u>	ACTUAL PURGE VOL. (gal.): <u>9</u>

DATE PURGED: <u>2-29-96</u>	Start (2400 Hr) <u>1150</u>	End (2400 Hr) <u>1154</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1157</u>	End (2400 Hr) <u>---</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1152</u>	<u>3</u>	<u>6.55</u>	<u>630</u>	<u>65.7</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1153</u>	<u>6</u>	<u>6.50</u>	<u>635</u>	<u>65.9</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1154</u>	<u>9</u>	<u>6.53</u>	<u>636</u>	<u>65.8</u>	<u>BROWN</u>	<u>HEAVY</u>

D. O. (ppm): NR ODOR: NONE NR NR
 (COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

PURGING EQUIPMENT

- 2" Bladder Pump
 - Centrifugal Pump
 - Submersible Pump
 - Well Wizard™
 - Bailer (Teflon®)
 - Bailer (PVC)
 - Bailer (Stainless Steel)
 - Dedicated
- Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
 - Bailer (Teflon®)
 - Bailer (Stainless Steel)
 - Submersible Pump
 - Dedicated
 - DDL Sampler
 - Dipper
 - Well Wizard™
- Other: _____

WELL INTEGRITY: Good LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: SJA Page 7 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-736-002

SAMPLE ID: MW-8(22)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA.

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>9.27</u>
DEPTH TO WATER (feet): <u>8.30</u>	CALCULATED PURGE (gal.): <u>22.83</u>
DEPTH OF WELL (feet): <u>22.5</u>	ACTUAL PURGE VOL (gal.): <u>78</u>

DATE PURGED: <u>2-28-96</u>	Start (2400 Hr) <u>1242</u>	End (2400 Hr) <u>1246</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1250</u>	End (2400 Hr) <u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1244</u>	<u>9.5</u>	<u>6.70</u>	<u>567</u>	<u>64.8</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1245</u>	<u>19</u>	<u>6.64</u>	<u>583</u>	<u>65.3</u>	<u>CLEAR</u>	<u>TRACE</u>
<u>1246</u>	<u>28</u>	<u>6.61</u>	<u>590</u>	<u>65.6</u>	<u>CLEAR</u>	<u>TRACE</u>

D. O. (ppm): NR ODOR: MUDNY COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT

- 2" Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Well Wizard™
- Bailer (Teflon®)
- Bailer (PVC)
- Bailer (Stainless Steel)
- Dedicated

Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
- Bailer (Teflon®)
- Bailer (Stainless Steel)
- Submersible Pump
- Dedicated
- DDL Sampler
- Dipper
- Well Wizard™

Other: _____

WELL INTEGRITY: GOOD LOCK #: ARCO-KEY

REMARKS: _____

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: [Signature] Page 8 of 10



WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236.002

SAMPLE ID: MW-9 (22)

PURGED BY: M. GALLEGO

CLIENT NAME: ARCO #2185

SAMPLED BY: ✓

LOCATION: OAKLAND, CA

TYPE: Ground Water 1 Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 X 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL):	<u>NR</u>	VOLUME IN CASING (gal.):	<u>2.16</u>
DEPTH TO WATER (feet):	<u>9.23</u>	CALCULATED PURGE (gal.):	<u>6.50</u>
DEPTH OF WELL (feet):	<u>22.5</u>	ACTUAL PURGE VOL (gal.):	<u>7.5</u>

DATE PURGED:	<u>2-29-96</u>	Start (2400 Hr)	<u>1104</u>	End (2400 Hr)	<u>1109</u>
DATE SAMPLED:	<u>✓</u>	Start (2400 Hr)	<u>1112</u>	End (2400 Hr)	<u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1106</u>	<u>3</u>	<u>6.73</u>	<u>620</u>	<u>66.7</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1107</u>	<u>6</u>	<u>6.60</u>	<u>694</u>	<u>66.9</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1109</u>	<u>7.5</u>	<u>6.59</u>	<u>699</u>	<u>66.7</u>	<u>BROWN</u>	<u>HEAVY</u>

D. O. (ppm): NR ODOR: None COLOR: NR TURBIDITY: NR

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2' Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2' Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon®)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: <u> </u>		Other: <u> </u>	

WELL INTEGRITY: Good LOCK #: ARCO-key

REMARKS:

Meter Calibration: Date: 2/29/06 Time: Meter Serial #: 9024 Temperature °F: 63.5
(EC 1000 9921/1000) (DI) (pH 7 696/700) (pH 10 1012/1000) (pH 4 399/)

Location of previous calibration:

Signature: [Signature] Reviewed By: SJA Page 9 of 10



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 3, 2/94

PROJECT NO: 21775-236-002

SAMPLE ID: MW-10 (22)

PURGED BY: M. GALLEGOS

CLIENT NAME: ARCO # 2185

SAMPLED BY: ↓

LOCATION: OAKLAND, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>2.20</u>
DEPTH TO WATER (feet): <u>9.38</u>	CALCULATED PURGE (gal.): <u>6.62</u>
DEPTH OF WELL (feet): <u>22.9</u>	ACTUAL PURGE VOL. (gal.): <u>7</u>

DATE PURGED: <u>2-29-96</u>	Start (2400 Hr) <u>1121</u>	End (2400 Hr) <u>1126 1126</u>
DATE SAMPLED: <u>↓</u>	Start (2400 Hr) <u>1130</u>	End (2400 Hr) <u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1123</u>	<u>2.5</u>	<u>6.93</u>	<u>528</u>	<u>74.5</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1124</u>	<u>5</u>	<u>6.72</u>	<u>560</u>	<u>69.9</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>1126</u>	<u>7</u>	<u>6.71</u>	<u>559</u>	<u>68.9</u>	<u>BROWN</u>	<u>HEAVY</u>

D. O. (ppm): NR ODOR: NONE NR NR
(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon®)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK #: ARCO-KEY

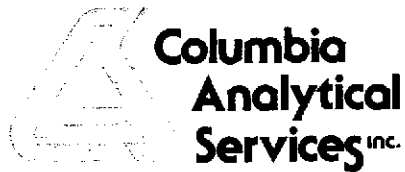
REMARKS: SHOWN

Meter Calibration: Date: 2-29-96 Time: _____ Meter Serial #: 9024 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
Location of previous calibration: _____

Signature: [Signature] Reviewed By: JA Page 10 of 10

APPENDIX B

**ANALYTICAL RESULTS AND CHAIN OF CUSTODY
DOCUMENTATION, FIRST QUARTER 1996
GROUNDWATER MONITORING EVENT**



March 14, 1996

Service Request No: S9600335

John Young
EMCON
1921 Ringwood Avenue
San Jose, CA 95131

Re: **2185 Oakland/20805-130.003/TO#19350.00**

Dear Mr. Young:

The following pages contain analytical results for sample(s) received by the laboratory on February 29, 1996. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. Listed above -- to help expedite our service please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 11, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven L. Green", written over a white background.

Steven L. Green
Project Chemist

A handwritten signature in black ink, appearing to read "Greg Anderson", written over a white background.

Greg Anderson
Regional QA Coordinator

SLG/jk

COLUMBIA ANALYTICAL SERVICES, Inc.

Acronyms

A2LA	American Association for Laboratory Accreditation
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAM	California Assessment Metals
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
COD	Chemical Oxygen Demand
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
J	Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MCL	Maximum Contaminant Level. The highest permissible concentration of a substance allowed in drinking water as established by the U. S. EPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl tert-Butyl Ether
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the paper industry for Air and Stream Improvement
ND	Not Detected at or above the method reporting/detection limit (MRL/MDL)
NIOSH	National Institute for Occupational Safety and Health
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992
STLC	Solubility Threshold Limit Concentration
SW	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
tr	Trace level. The concentration of an analyte that is less than the PQL but greater than or equal to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA

BTEX, MTBE and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: ug/L (ppb)

Sample Name:	MW-9(22)	MW-10(22)	MW-1(23)
Lab Code:	S9600335-001	S9600335-002	S9600335-003
Date Analyzed:	3/14/96	3/8/96	3/8/96

Analyte	MRL			
TPH as Gasoline	50	ND	ND	ND
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
Methyl-tert-butyl ether	3	<5*	ND	ND

* Raised MRL due to matrix interference.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA

BTEX, MTBE and TPH as Gasoline
 EPA Methods 5030/8020/California DHS LUFT Method
 Units: ug/L (ppb)

Sample Name:	MW-4(23)	MW-7(25)	MW-5(26)
Lab Code:	S9600335-004	S9600335-005	S9600335-006
Date Analyzed:	3/11/96	3/11/96	3/11/96

Analyte	MRL			
TPH as Gasoline	50	ND	<300*	900
Benzene	0.5	ND	ND	11
Toluene	0.5	ND	ND	<1***
Ethylbenzene	0.5	ND	ND	59
Total Xylenes	0.5	ND	ND	29
Methyl-tert-butyl ether	3	ND	<6**	99

* Raised MRL due to matrix interference. The sample contains non-fuel components eluting in the gasoline range, quantified as gasoline. The chromatogram does not match the typical gasoline fingerprint.

** Raised MRL due to matrix interference.

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

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA

BTEX, MTBE and TPH as Gasoline
 EPA Methods 5030/8020/California DHS LUFT Method
 Units: ug/L (ppb)

Sample Name:	MW-8(22)	MW-2(33)	MW-6(27)
Lab Code:	S9600335-007	S9600335-008	S9600335-009
Date Analyzed:	3/11/96	3/12/96	3/12/96

Analyte	MRL			
TPH as Gasoline	50	160	2200	520
Benzene	0.5	ND	<3**	33
Toluene	0.5	ND	<3**	<5**
Ethylbenzene	0.5	<0.9*	130	480
Total Xylenes	0.5	<0.6*	27	160
Methyl-tert-butyl ether	3	32	<20**	<30**

* Raised MRL due to matrix interference.

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

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA

BTEX, MTBE and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: ug/L (ppb)

Sample Name:	MW-3(23)	Method Blank	Method Blank
Lab Code:	S9600335-010	S9600308-WB	S9600311-WB
Date Analyzed:	3/12/96	3/8/96	3/11/96

Analyte	MRL			
TPH as Gasoline	50	5100	ND	ND
Benzene	0.5	83	ND	ND
Toluene	0.5	<5**	ND	ND
Ethylbenzene	0.5	160	ND	ND
Total Xylenes	0.5	57	ND	ND
Methyl-tert-butyl ether	3	640	ND	ND

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

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA

BTEX, MTBE and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: ug/L (ppb)

Sample Name:	Method Blank	Method Blank
Lab Code:	S9600312-WB	S9600314-WB
Date Analyzed:	3/12/96	3/14/96

Analyte	MRL		
TPH as Gasoline	50	ND	ND
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	ND	ND
Methyl-tert-butyl ether	3	ND	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA
Date Analyzed: 3/8-14/96

Surrogate Recovery Summary
 BTEX, MTBE and TPH as Gasoline
 EPA Methods 5030/8020/California DHS LUFT Method

Sample Name	Lab Code	PID Detector	FID Detector
		Percent Recovery 4-Bromofluorobenzene	Percent Recovery α,α,α -Trifluorotoluene
MW-9(22)	S9600335-001	94	103
MW-10(22)	S9600335-002	94	92
MW-1(23)	S9600335-003	93	98
MW-4(23)	S9600335-004	83	98
MW-7(25)	S9600335-005	80	102
MW-5(26)	S9600335-006	92	105
MW-8(22)	S9600335-007	90	107
MW-2(33)	S9600335-008	85	111
MW-6(27)	S9600335-009	90	110
MW-3(23)	S9600335-010	92	106
MW-9(22)MS	S9600335-001MS	94	97
MW-9(22)DMS	S9600335-001DMS	92	97
Method Blank	S9600308-WB	93	94
Method Blank	S9600311-WB	92	98
Method Blank	S9600312-WB	93	99
Method Blank	S9600314-WB	91	96

CAS Acceptance Limits: 69-116 69-116

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003
Sample Matrix: Water

Service Request: S9600335
Date Collected: 2/28,29/96
Date Received: 2/29/96
Date Extracted: NA
Date Analyzed: 3/8/96

Matrix Spike/Duplicate Matrix Spike Summary

BTE

EPA Methods 5030/8020

Units: ug/L (ppb)

Sample Name: MW-9(22)
Lab Code: S9600335-001

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery				Relative Percent Difference
	MS	DMS		MS	DMS	CAS		Acceptance Limits		
						MS	DMS			
Benzene	25	25	ND	22.7	22.9	91	92	75-135	1	
Toluene	25	25	ND	22.4	22.6	90	90	73-136	1	
Ethylbenzene	25	25	ND	22.3	22.2	89	89	69-142	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: ARCO Products Company
Project: 2185 Oakland/20805-130.003

Service Request: S9600335
Date Analyzed: 3/8/96

Initial Calibration Verification (ICV) Summary
BTEX, MTBE and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: ppb

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Benzene	25	23.7	95	85-115
Toluene	25	23.7	95	85-115
Ethylbenzene	25	23.4	94	85-115
Xylenes, Total	75	71.3	95	85-115
Gasoline	250	248	99	90-110
Methyl-tert-butyl Ether	50	48	96	85-115

ARCO Facility no. 2185	City (Facility) Oakland	Project manager (Consultant) John Young	Laboratory name CAS
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 453-7300	Contract number
Consultant name EMCON		Address (Consultant) 1921 Ringwood Ave. San Jose CA 95131	

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	BTEX/TPH EPA 146/146/TPH EPA 146/240/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 801/8010	EPA 824/8240	EPA 825/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 801/7000 TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA <input type="checkbox"/> 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid															
MW-9(22')	1	2		X		X	HCL	2/29/94	1112		X											
MW-10(22')	2	2		X		X	HCL	2/29/94	1130		X											
MW-1(23')	3	2		X		X	HCL	2-28-94	1459		X											
MW-4(23')	4	2		X		X	HCL	2-28-94	1513		X											
MW-7(25')	5	2		X		X	HCL	2-29-94	1157		X											
MW-5(26')	6	2		X		X	HCL		1230		X											
MW-8(22')	7	2		X		X	HCL		1250		X											
MW-2(33')	8	2		X		X	HCL		1310		X											
MW-6(27')	9	2		X		X	HCL		1324		X											
MW-3(23')	10	2		X		X	HCL	2-29-94	1345		X											

Method of shipment
Sampler will deliver

Special detection Limit/reporting
Lowest Possible

Special QA/QC
As Normal

Remarks
**2-40ml HCL
VOAs**

#20905-130.005
Lab number
59600335

Turnaround time
Priority Rush 1 Business Day
Rush 2 Business Days
Expedited 5 Business Days
Standard 10 Business Days **3/14 X**

Condition of sample: ok		Temperature received: Cool	
Relinquished by sampler <i>[Signature]</i>	Date 2/29/94 Time 1600	Received by	
Relinquished by	Date	Received by	
Relinquished by	Date	Received by laboratory <i>[Signature]</i>	Date 2/29/96 Time 1600