



# EMCON Associates

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

HAZMAT

94 SEP -6 PM 3: 56

Date: August 30, 1994

Project 0C75-005.24

To:

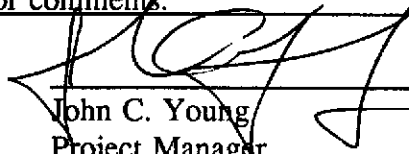
Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94621

We are enclosing:

Copies	Description
<u>1</u>	<u>Second Quarter 1994 Groundwater Monitoring Report for ARCO Service Station 2035</u>
_____	_____
_____	_____
_____	_____
_____	_____

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

Comments: Please call with any questions or comments.

  
 \_\_\_\_\_  
 John C. Young  
 Project Manager





August 26, 1994  
Project 0C75-005.24

Mr. Michael Whelan  
Environmental Engineer  
ARCO Products Company  
P. O. Box 5811  
San Mateo, California 94420

Re: Second quarter 1994 groundwater monitoring program results, ARCO service station  
2035, Albany, California

Dear Mr. Whelan:

This letter presents the results of the second quarter 1994 groundwater monitoring program at ARCO Products Company (ARCO) service station 2035, 1001 San Pablo Avenue, Albany, California (Figure 1).

### **MONITORING PROGRAM RESULTS**

The second quarter 1994 groundwater monitoring event was performed by Integrated Wastestream Management, Inc. (IWM) on April 26, 1994. Wells MW-1 through MW-6 and RW-1 are monitored quarterly. Groundwater samples collected during second quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPHG), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). The groundwater sample from monitoring well MW-3 was also analyzed for total recoverable petroleum hydrocarbons (TRPH) (Table 1). Certified analytical reports, chain-of-custody documentation, and field data sheets are presented in Appendix A. Depths to groundwater and analytical data are presented in Table 1. Figure 2 presents groundwater elevation data along with TPHG and benzene concentrations from the April 26, 1994 monitoring event.

### **SITE STATUS UPDATE**

This update reports site activities performed during the second quarter of 1994 and the anticipated site activities for the third quarter of 1994.



Mr. Michael Whelan  
August 26, 1994  
Page 2

Project OC75-005.24

### Second Quarter 1994 Activities

- Quarterly groundwater monitoring report for first quarter 1994 prepared and submitted by RESNA Industries Inc.
- IWM performed second quarter 1994 groundwater monitoring event.

### Work Anticipated Third Quarter 1994


- Prepare and submit quarterly groundwater monitoring report for second quarter 1994.
- Perform quarterly groundwater monitoring for third quarter 1994.

Please call if you have questions.

Sincerely,

EMCON Associates

  
John C. Young  
Project Manager

  
Mark Smolley, R.G. #4650  
Senior Project Geologist



Attachments: Table 1 - Summary of Groundwater Sample Analyses for ARCO  
Facility A-2035  
Figure 1 - Site Location  
Figure 2 - Site Plan  
Appendix A - Certified Analytical Report, Chain-of-Custody  
Documentation and Field Data Sheets

Table 1

Summary of Ground Water Sample Analyses for ARCO Facility A-2035, Albany, California

WELL NUMBER	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	RW-1
DATE SAMPLED	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94
DEPTH TO WATER	9.25	9.60	9.56	8.94	9.51	11.33	9.30
SHEEN	NONE	NONE	NONE	NONE	NONE	NONE	FP
PRODUCT THICKNESS	NA	NA	NA	NA	NA	NA	0.04
TPHg	990	ND	58	ND	ND	ND	NA
<b>BTEX</b>							
BENZENE	290	ND	1.1	ND	ND	ND	NA
TOLUENE	3.5	ND	ND	ND	ND	ND	NA
ETHYLBENZENE	18	ND	2.4	ND	ND	ND	NA
XYLENES	14	ND	0.9	ND	ND	ND	NA
<b>EPA 418.1</b>							
RECOVERABLE HYDROCARBONS	NA	NA	<0.6**	NA	NA	NA	NA

FOOTNOTES:

Concentrations reported in ug/L (ppb).  
 TPHg = Total Purgeable Petroleum Hydrocarbons (USEPA Method 8015 Modified)  
 BTEX Distinction (USEPA Method 8020)  
 PCE = Tetrachloroethene (USEPA Method 8010)  
 \*\* = Raised MRL due to insufficient sample volume for optimum analysis.  
 FP = Floating Product

DCE = cis-1, 2-Dichloroethene (USEPA Method 8010)  
 TCE = Trichloroethene (USEPA Method 8010)  
 ND = Not Detected  
 NA = Not applicable.



Base map from USGS 7.5' Quad. Maps:  
Oakland West and Richmond, California  
Photorevised 1980.

Scale : 0 2000 4000 Feet



**EMCON**  
Associates

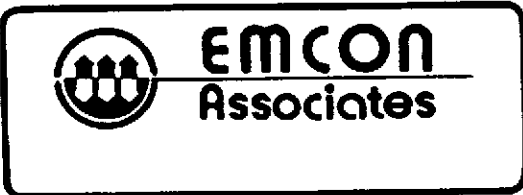
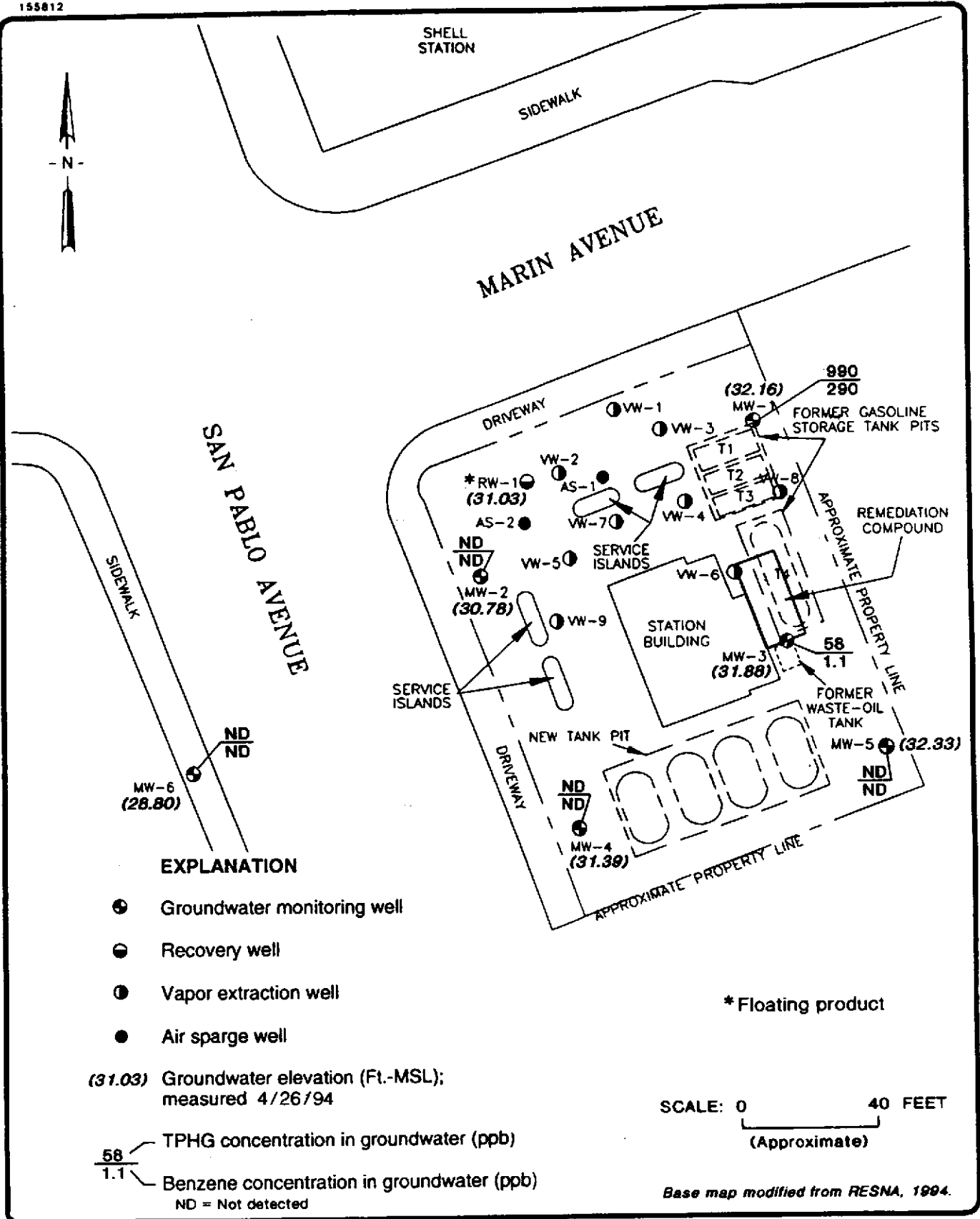
ARCO PRODUCTS COMPANY  
SERVICE STATION 2035, 1001 SAN PABLO AVENUE  
QUARTERLY GROUNDWATER MONITORING  
ALBANY, CALIFORNIA

SITE LOCATION

FIGURE

**1**

PROJECT NO.  
C75-05.24



ARCO PRODUCTS COMPANY  
 SERVICE STATION 2035, 1001 SAN PABLO AVENUE  
 QUARTERLY GROUNDWATER MONITORING  
 ALBANY, CALIFORNIA

SITE PLAN

FIGURE  
**2**  
 PROJECT NO.  
 C75-05.24

**APPENDIX A**

**CERTIFIED ANALYTICAL REPORT, CHAIN-OF-CUSTODY  
DOCUMENTATION AND FIELD DATA SHEETS**



May 11, 1994

Service Request No. SJ940502

Gina Austin  
Tom DeLon  
IWM  
950 Ames Avenue  
Milpitas, CA 95035

Re: **ARCO Facility No. 2035**

Dear Ms. Austin/Mr. DeLon:


Attached are the results of the water samples submitted to our lab on April 28, 1994. For your reference, these analyses have been assigned our service request number SJ940502.


All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.

  
Keoni A. Murphy  
Laboratory Manager

  
Annelise J. Bazar  
Regional QA Coordinator

KAM/drf



# COLUMBIA ANALYTICAL SERVICES, Inc.

## Acronyms

ASTM	American Society for Testing and Materials
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MRL	Method Reporting Limit
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 MRL
NR	Not Requested
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

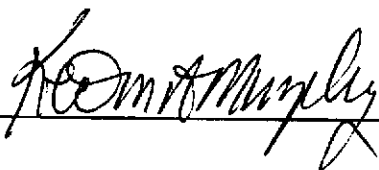
Client: IWM  
Project: ARCO Facility No. 2035  
Sample Matrix: Water

Date Collected: 4/26/94  
Date Received: 4/28/94  
Date Extracted: 5/2/94  
Date Analyzed: 5/3/94  
Service Request: SJ940502

Total Recoverable Petroleum Hydrocarbons  
EPA Method 418.1  
Units: mg/L (ppm)

Sample Name	Lab Code	MRL	Result
MW-3 (15)	SJ940502-4	0.5	<0.6*
Method Blank	SJ940502-WMB	0.5	ND

\* Raised MRL due to insufficient sample volume for optimum analysis.

Approved By  Date May 11, 1994

**COLUMBIA ANALYTICAL SERVICES, INC.**



**Analytical Report**


**Client:** IWM  
**Project:** ARCO Facility No. 2035  
**Sample Matrix:** Water

**Dates Collected:** 4/26/94  
**Date Received:** 4/28/94  
**Date Extracted:** N/A  
**Date Analyzed:** 4/29/94  
**Service Request:** SJ940502

**BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/California DHS LUFT Method**

<b>Analyte:</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl- benzene</b>	<b>Total Xylenes</b>	<b>TPH as Gasoline</b>
<b>Units:</b>	<b>µg/L (ppb)</b>	<b>µg/L (ppb)</b>	<b>µg/L (ppb)</b>	<b>µg/L (ppb)</b>	<b>µg/L (ppb)</b>
<b>Method Reporting Limit:</b>	0.5	0.5	0.5	0.5	50

<u>Sample Name</u>	<u>Lab Code</u>					
MW-1 (24)	SJ940502-2	290.	3.5	18.	14.	990.
MW-2 (10.5)	SJ940502-3	ND	ND	ND	ND	ND
MW-3 (15)	SJ940502-4	1.1	ND	2.4	0.9	58.
MW-4 (16.8)	SJ940502-5	ND	ND	ND	ND	ND
MW-5 (22)	SJ940502-6	ND	ND	ND	ND	ND
MW-6 (11.4)	SJ940502-7	ND	ND	ND	ND	ND
Method Blank	SJ940429-WMB	ND	ND	ND	ND	ND

Approved By: 

Date: May 11, 1994

APPENDIX A  
LABORATORY QC RESULTS

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

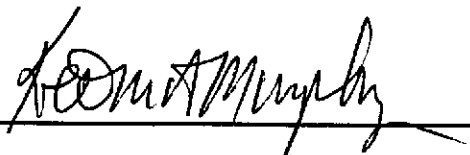
Client: IWM  
Project: ARCO Facility No. 2035  
Sample Matrix: Water

Date Collected: 4/26/94  
Date Received: 4/28/94  
Date Extracted: 5/2/94  
Date Analyzed: 5/3/94  
Service Request: SJ940502

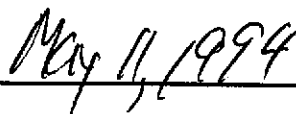
Initial Calibration Verification  
Total Recoverable Petroleum Hydrocarbons  
EPA Method 418.1  
Units: mg/L (ppm)

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Percent Recovery Acceptance Limits</u>
Hydrocarbon Mix	40	42	105	90-110

Approved By:



Date:



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IWM  
Project: ARCO Facility No. 2035  
Sample Matrix: Water

Date Collected: 4/26/94  
Date Received: 4/28/94  
Date Extracted: 5/2/94  
Date Analyzed: 5/3/94  
Service Request: SJ940502

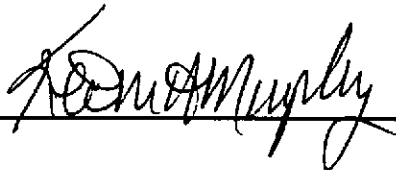
Matrix Spike/Duplicate Matrix Spike Summary  
EPA Method 418.1  
Units: mg/L (ppm)

Sample Name: Batch QC  
Lab Code: SJ940487-1

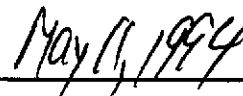
Percent Recovery  
CAS

<u>Analyte</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>Spike Result</u>		<u>Percent Recovery</u>		<u>Acceptance Criteria</u>
			<u>MS</u>	<u>DMS</u>	<u>MS</u>	<u>DMS</u>	
Hydrocarbon Mix	8.0	1.0	8.3	7.9	91	86	57-127

Approved By:



Date:



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IWM  
Project: ARCO Facility No. 2035  
Sample Matrix: Water

Dates Collected: 4/26/94  
Date Received: 4/28/94  
Date Extracted: N/A  
Date Analyzed: 4/29/94  
Service Request: SJ940502

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Percent Recovery</u> a,a,a-Trifluorotoluene
MW-1 (24)	SJ940502-2	104
MW-2 (10.5)	SJ940502-3	93
MW-3 (15)	SJ940502-4	98
MW-4 (16.8)	SJ940502-5	93
MW-5 (22)	SJ940502-6	81
MW-6 (11.4)	SJ940502-7	93
MS	SJ940489-MS	88
DMS	SJ940489-DMS	97
Method Blank	SJ940429-WMB	97

CAS Acceptance Limits: 69-116

Approved By: \_\_\_\_\_

*Kenneth Murphy*

Date: \_\_\_\_\_

*May 11, 1994*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

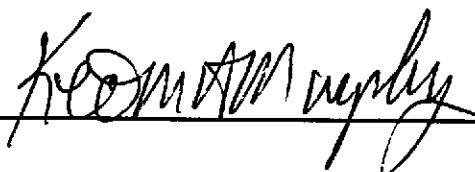
Client: IWM  
Project: ARCO Facility No. 2035  
Sample Matrix: Water

Dates Collected: 4/26/94  
Date Received: 4/28/94  
Date Extracted: N/A  
Date Analyzed: 4/29/94  
Service Request: SJ940502

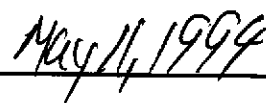
Initial Calibration Verification  
BTEX and TPH as Gasoline  
EPA Methods 5030/8020/California DHS LUFT Method  
Units:  $\mu\text{g/L}$  (ppb)

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Acceptance Criteria</u>
Benzene	25	25.2	101	85-115
Toluene	25	25.0	100	85-115
Ethylbenzene	25	24.7	99	85-115
Total Xylenes	75	75.9	101	85-115
TPH as Gasoline	250	240	96	90-110

Approved By:



Date:





**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** IWM  
**Project:** ARCO Facility No. 2035  
**Sample Matrix:** Water

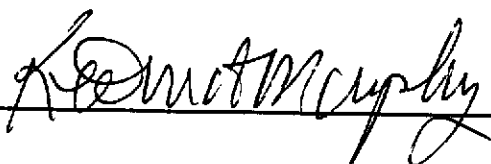
**Dates Collected:** 4/26/94  
**Date Received:** 4/28/94  
**Date Extracted:** N/A  
**Date Analyzed:** 4/29/94  
**Service Request:** SJ940502

Matrix Spike/Duplicate Matrix Spike Summary  
 BTE  
 EPA Methods 5030/8020  
 Units: µg/L (ppb)

**Sample Name:** Batch QC  
**Lab Code:** SJ940489-15

**Percent Recovery  
 CAS**

<u>Analyte</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>Spike Result</u>		<u>Percent Recovery</u>		<u>Acceptance Criteria</u>
			<u>MS</u>	<u>DMS</u>	<u>MS</u>	<u>DMS</u>	
Benzene	25	ND	28.6	26.5	114	106	75-135
Toluene	25	ND	28.4	26.6	114	106	73-136
Ethylbenzene	25	ND	28.4	26.2	114	105	69-142

Approved By: 

Date: May 11, 1994

**APPENDIX B**  
**CHAIN OF CUSTODY**

ARCO Facility no. A 2035 City (Facility) Albany Project manager (Consultant) Tom De Jon / Len Young

ARCO engineer Chuck Carmel Telephone no. (ARCO) 415 571 2434 Telephone no. (Consultant) 408/942 8955 Fax no. (Consultant) 408/942 1099

Contract number 07077 Address (Consultant) 950 Amos rd. Map. C & 25035

Sample ID.	Lab no.	Container no.	Matrix			Preservation			Sampling date	Sampling time	BTEX 602/EPA 8020	EPA M602/8020/8015	TPH Modified 8015	Gas <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2	TPH 418.1/8063E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Semi <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 6010/7000	TLC <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	ACL															
FB-1	1	2	✓			✓		✓	1260		✓	✓											
14 HW-1	2	2	✓			✓		✓	1440		✓	✓											
15 HW-2	3	2	✓			✓		✓	1500		✓	✓											
15 HW-3	4	4	✓			✓		✓	1416		✓	✓											
18 HW-4	5	2	✓			✓		✓	1430		✓	✓											
22 HW-5	6	2	✓			✓		✓	1346		✓	✓											
14 HW-6	7	2	✓			✓		✓	1345		✓	✓											

Condition of sample: OKAY Temperature received: cool

Relinquished by sampler Therese Salda Date 4/28/94 Time 5:00 AM Received by John Austin

Relinquished by John Austin Date 4/28/94 Time 11:00 AM Received by John Young Date 4/28/94 Time 11:00 AM

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received by laboratory Date \_\_\_\_\_

Lab number 5194-0502 Turnaround time \_\_\_\_\_

Priority Rush  1 Business Day  Rush  2 Business Days  Expedited  5 Business Days  Standard  10 Business Days

Remarks Hold on FB-1

Method of shipment CAS courier

Special detection Limit/reporting \_\_\_\_\_

Special QA/QC \_\_\_\_\_

**I** NTEGRATED  
**W** ASTESTREAM  
**M** ANAGEMENT, INC.

APR 26 1994  
RESNA  
SAN JOSE

May 13, 1994

Mr. John Young  
RESNA Industries  
3315 Almaden Expressway, Suite 34  
San Jose, CA. 95118

Dear Mr. Young:


Attached are the field data sheets and analytical results for quarterly ground water sampling at ARCO Facility No. A-2035 in Albany, California. Integrated Wastestream Management measured the depth to water and collected samples from wells at this site on April 26, 1994.

Sampling was carried out in accordance with the protocols described in the "Request for Bid for Quarterly Sampling at ARCO Facilities in Northern California".

Please call us if you have any questions.

Sincerely,  
Integrated Wastestream Management

  
\_\_\_\_\_  
Tom DeLon  
Project Manager

  
\_\_\_\_\_  
Walter H. Howe  
Registered Geologist



**I** NTEGRATED  
**W** ASTESTREAM  
**M** ANAGEMENT

A2035Q2.XLS

**Summary of Ground Water Sample Analyses for ARCO Facility A-2035, Albany, California**

WELL NUMBER	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	RW-1
DATE SAMPLED	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94	4/26/94
DEPTH TO WATER	9.25	9.60	9.56	8.94	9.51	11.33	9.30
SHEEN	NONE	NONE	NONE	NONE	NONE	NONE	FP
PRODUCT THICKNESS	NA	NA	NA	NA	NA	NA	0.04
TPHg	990	ND	58	ND	ND	ND	NA
<b>BTEX</b>							
BENZENE	290	ND	1.1	ND	ND	ND	NA
TOLUENE	3.5	ND	ND	ND	ND	ND	NA
ETHYL BENZENE	18	ND	2.4	ND	ND	ND	NA
XYLENES	14	ND	0.9	ND	ND	ND	NA
<b>EPA 418.1</b>							
RECOVERABLE HYDROCARBONS	NA	NA	<0.6 **	NA	NA	NA	NA

**FOOTNOTES:**

Concentrations reported in ug/L (ppb).  
 TPHg = Total Purgeable Petroleum Hydrocarbons (USEPA Method 8015 Modified)  
 BTEX Distinction (USEPA Method 8020)  
 PCE = Tetrachloroethene (USEPA Method 8010)  
 \*\* = Raised MRL due to insufficient sample volume for optimum analysis.  
 FP = Floating Product

DCE = cis-1, 2-Dichloroethene (USEPA Method 8010)  
 TCE = Trichloroethene (USEPA Method 8010)  
 ND = Not Detected.  
 NA = Not applicable.

950 AMES AVENUE

MILPITAS, CA 95035

(408) 942-8955

# FIELD REPORT

Depth To Water / Floating Product Survey

NEW TD's taken on 4-26-94

Site Arrival Time: 1201  
 Site Departure Time: 1515  
 Weather Conditions: Sunny  
 clear

DTW: Well Box or  Well Casing (circle one)

Project No.: \_\_\_\_\_ Location: 1001 San Pablo av. Albany Date: April 26, 1994  
 Client / Station#: CDEC 2035 Field Technician: Vince / Cisco Day of Week: Tuesday

DTW ORDER	WELL ID	SURFACE SEAL	UID SECURE	GASKET	LOCK	EXPANDING CAP	TOTAL DEPTH (Feet)	FIRST DEPTH TO WATER (Feet)	SECOND DEPTH TO WATER (Feet)	DEPTH TO FLOATING PRODUCT (Feet)	FLOATING PRODUCT THICKNESS (Feet)	SHEEN (Y= YES, N=NO)	COMMENTS	MATERIALS
4	MW-1	OK	yes	OK	OK	OK	30.1	9.25+	9.25+	N/A	N/A	N	4" H <sub>2</sub> O IN WALL BOX	15/16
5	MW-2	OK	yes	OK	OK	OK	29.1	9.60	9.60	N/A	N/A	N	4"	15/16
3	MW-3	OK	yes	OK	OK	OK	33.55	9.56	9.56	N/A	N/A	N	4"	15/16
1	MW-4	OK	yes	OK	OK	OK	25.8	8.94+	8.94+	N/A	N/A	N	4"	15/16
2	MW-5	OK	yes	OK	OK	OK	25.1	9.51-	9.51-	N/A	N/A	N	4"	15/16
6	MW-6	OK	yes	OK	OK	OK	24.8	11.33	11.33	N/A	N/A	N	2"	16/16
7	RW-1	OK	yes	OK	OK	OK	25.4	9.11H	9.11H	N/A	N/A	Y	6"	
	RW-1						→ 25.4	9.30	9.30	9.26	0.04	Y	6"	3/4"

WELL ID: MW-6 TD 24.8 DTW 11.33 X 0.17 Gal. X 0.3 Volume - 6.86 Calculated Pump

DATE PURGED: 4-26-94 START (2400 HR): 1318 END (2400 HR): 1337

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1345 DTW: 11.4

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1325	1.5	7.24	0.68	66.3	CLOUDY
1332	3	6.78	0.60	64.9	CLOUDY
1337	7	6.93	0.59	64.4	CLOUDY

Total purge: 7

PURGING EQUIP.: Centrifugal Pump Bailler Disp.

REMARKS: SAMPLING EQUIP: Bailler Disp.

WELL ID: MW-2 TD 29.1 DTW 9.60 X 0.66 Gal. X 3 Volume - 38.61 Calculated Pump

DATE PURGED: 4-26-94 START (2400 HR): 144 END (2400 HR): 1451

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1500 DTW: 10.5

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1443	5	7.01	0.65	78.8	CLEAR
1446	16	6.88	0.65	71.4	CLEAR
1449	29	6.85	0.63	70.9	CLEAR
1451	39	6.80	0.61	70.1	CLEAR

Total purge: 39

PURGING EQUIP.: Centrifugal Pump Bailler Disp.

REMARKS: SAMPLING EQUIP: Bailler Disp.

WELL ID: MW-4 TD 25.8 DTW 8.94 X 0.66 Gal. X 3 Volume - 33.38 Calculated Pump

DATE PURGED: 4-26-94 START (2400 HR): 1410 END (2400 HR): 1427

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1430 DTW: 10.8

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1411	3	7.49	0.47	69.5	CLEAR
1414	17	6.98	0.41	69.1	CLEAR
1418	26	6.74	0.46	69.0	CLEAR
1427	39	6.77	0.50	68.2	CLEAR

Total purge: 39

PURGING EQUIP.: Centrifugal Pump Bailler Disp.

REMARKS: SAMPLING EQUIP: Bailler Disp.

WELL ID: \_\_\_\_\_ TD \_\_\_\_\_ DTW \_\_\_\_\_ X \_\_\_\_\_ Gal. X \_\_\_\_\_ Volume - \_\_\_\_\_ Calculated Pump

DATE PURGED: \_\_\_\_\_ START (2400 HR): \_\_\_\_\_ END (2400 HR): \_\_\_\_\_

DATE SAMPLED: \_\_\_\_\_ TIME (2400 HR): \_\_\_\_\_ DTW: \_\_\_\_\_

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Total purge: \_\_\_\_\_

PURGING EQUIP.: Centrifugal Pump Bailler Disp.

REMARKS: SAMPLING EQUIP: Bailler Disp.

PRINT NAME: Francisco Avungco

SIGNATURE: Francisco Avungco

CASING DIAMETER (inches): 2 3/4 6 8 12

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8

WELL ID: MW-5 TD 25.1 DTW 9.51 X Gal. 0.66 X Volume 3 Calculated Pump 30:86

DATE PURGED: 4-26-94 START (2400 HR): 1328 END (2400 HR) 1346

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1346 DTW: 2.2

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1330	3	7.60	0.58	66.9	clean
1334	18	7.20	0.56	65.1	clean
1337	26	7.14	0.56	64.9	clean
1340	27	7.11	0.56	64.4	clean

Total purge: 27

PURGING EQUIP.: Centrifugal Pump/Bailer Disp.

REMARKS: well pumped dry at 26 and again at 27 gallons

WELL ID: MW-3 TD 33.55 DTW 9.56 X Gal. 0.66 X Volume 3 Calculated Pump 47:50

DATE PURGED: 4-26-94 START (2400 HR): 1351 END (2400 HR) 1412

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1416 DTW: 1.5

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1358	3	6.74	0.77	66.5	clean
1402	14	6.76	0.72	64.8	clean
1407	34	6.86	0.72	63.4	clean
1412	50	6.88	0.64	63.6	clean

Total purge: 50

PURGING EQUIP.: Centrifugal Pump/Bailer Disp.

REMARKS: SAMPLING EQUIP/Bailer Disp.

WELL ID: MW-1 TD 30.1 DTW 9.25 X Gal. 0.66 X Volume 3 Calculated Pump 41:28

DATE PURGED: 4-26-94 START (2400 HR): 1422 END (2400 HR) 1436

DATE SAMPLED: 4-26-94 TIME (2400 HR): 1440 DTW: 2.4

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1423	2	6.91	0.65	67.2	cloudy
1427	17	6.78	0.65	65.3	clean
1431	28	6.81	0.65	65.0	clean
1436	42	6.80	0.69	65.5	clean

Total purge: 42

PURGING EQUIP.: Centrifugal Pump/Bailer Disp.

REMARKS: SAMPLING EQUIP/Bailer Disp.

WELL ID: \_\_\_\_\_ TD \_\_\_\_\_ DTW \_\_\_\_\_ X Gal. \_\_\_\_\_ X Volume \_\_\_\_\_ Calculated Pump \_\_\_\_\_

DATE PURGED: \_\_\_\_\_ START (2400 HR): \_\_\_\_\_ END (2400 HR) \_\_\_\_\_

DATE SAMPLED: \_\_\_\_\_ TIME (2400 HR): \_\_\_\_\_ DTW: \_\_\_\_\_

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Total purge: \_\_\_\_\_

PURGING EQUIP.: Centrifugal Pump/Bailer Disp.

REMARKS: SAMPLING EQUIP: Bailer Disp.

PRINT NAME: Vince Valdez

SIGNATURE: Vince Valdez

CASINO DIAMETER (inches): 2 3 4 6 8 12 Other: \_\_\_\_\_

GALLON/LINEAR FOOT: 0.17 0.38 0.66 1.5 2.6 5.8 Other: \_\_\_\_\_