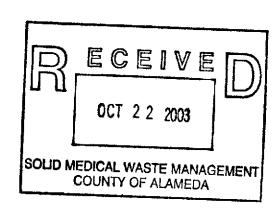
URS

October 17, 2003

Ms. eva chu Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577



lames F. Durkin, C.Hg. 🐈

Senior Geologist

Re: Third Quarter 2003 Groundwater Monitoring Report

ARCO Service Station #4977 2770 Castro Valley Blvd Castro Valley, California URS Project # 38486461

Dear Ms. chu

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2003 Groundwater Monitoring Report* for ARCO Service Station # 4977, located at 2770 Castro Valley Blvd, Castro Valley, California.

If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson Project Manager

Enclosure:

Third Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO (electronic copy uploaded to ENFOS)

URS Corporation 500 12th Street, Suite 200 Oakland, CA 94607-4014 Tel: 510.893.3600 Fax: 510.874.3268





Atlantic Richfield Company (a BP affiliated company)

P.O. Box 6549 Moraga, California 94570 Phone: (925) 299-8891 Fax: (925) 299-8872

October 17, 2003

RE: Third Quarter 2003 Groundwater Monitoring Report

ARCO Service Station #4977 2770 Castro Valley Blvd.

Castro Valley, CCA URS Project #38486461

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

Submitted by:

Paul Supple

Environmental Business Manager

REPORT

THIRD QUARTER 2003 GROUNDWATER MONITORING

ARCO SERVICE STATION #4977 2770 CASTRO VALLEY BLVD CASTRO VALLEY, CALIFORNIA

Prepared for Atlantic Richfield Company

October 17, 2003

URS

URS Corporation 500 12th Street, Suite 200 Oakland, California 94607

Date:	October 17, 2003
Quarter:	3Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	4977	Address:	2770 Castro Valley Blvd, Castro Valley, CA			
ARCO Environmental E	Business Mana	iger:	Paul Supple			
Consulting Co./Contact	Person:		URS Corporation / Scott Robinson			
Consultant Project No.:			38486461			
Primary Agency:			Alameda County Health Services Agency (ACHCSA)			

WORK PERFORMED THIS QUARTER

(Third - 2003):

- 1. Performed third quarter groundwater monitoring event on September 18, 2003.
- 2. Prepared and submitted second quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2003):

- 1. Perform fourth quarter groundwater monitoring event.
- 2. Prepare and submit third quarter 2003 groundwater monitoring report.

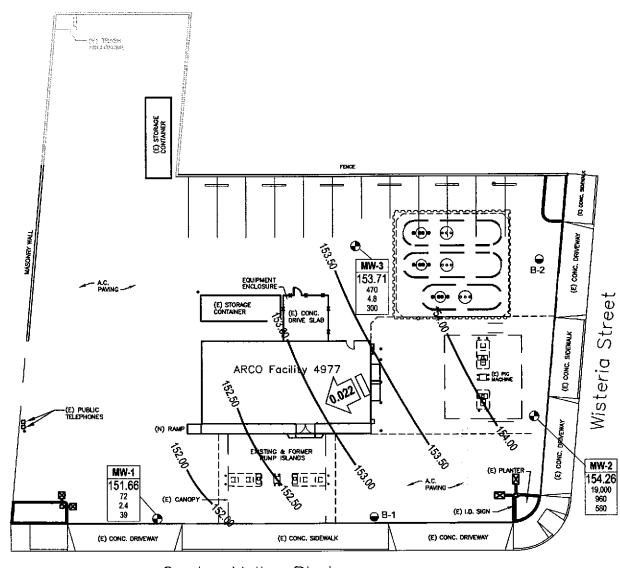
Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-1 through MW-3
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	7.61 ft (MW-2) to 9.45 ft (MW-1)
Groundwater Gradient (direction):	South-southwest
Groundwater Gradient (magnitude):	0.022 feet per foot

DISCUSSION:

TPH-g was detected above laboratory reporting limits in all three wells sampled this quarter at concentrations ranging from 72 μ g/L (MW-1) to 19,000 μ g/L (MW-2). Benzene was detected above laboratory reporting limits in all three wells at concentrations of 2.4 μ g/L (MW-1) to 960 μ g/L (MW-2). MTBE was detected above laboratory reporting limits in all three wells at concentrations ranging from 39 μ g/L (MW-1) to 580 μ g/L (MW-2). TAME was detected above laboratory reporting limits in MW-3 at a concentration of 3.2 μ g/L.

ATTACHMENTS:

- Figure 1 Groundwater Elevation Contour and Analytical Summary Map September 18, 2003
- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Groundwater Flow Direction and Gradient
- Table 3 Fuel Oxygenate Analytical Data
- Attachment A Field Procedures and Field Data Sheets
- Attachment B Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C EDCC Report and EDF/Geowell Submittal Confirmation



Castro Valley Blvd.

LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
 WELL DESIGNATION

Well
ELEV
TPH-g
Benzene
MTBE

GROUNDWATER ELEVATION (FT ABOVE MSL)

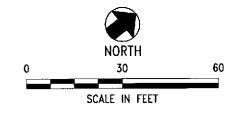
CONCENTRATION OF TPH-g, BENZENE AND MTBE IN GROUNDWATER (µg/L)

ND< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS

152.00 - GROUNDWATER ELEVATION CONTOUR (FT ABOVE MSL)



GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS

Project No. 38486461

Arco Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2003 (September 18, 2003)

FIGURE

1

Table 1 Groundwater Elevation and Analytical Data

ARCO Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California

Sample ID	Date	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft bte)	Groundwater Elevation (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^b (mg/L)	pH ^b
MW-1	04/19/02	161.11	11.21	149.90	660	12	1.3	4.3	0.80	38	NA	NA
	09/27/02		9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9
	12/16/02*		8,55	152.56	77	1.8	ND<0.50	0.69	ND<1.0	42	1.6	6.9
	03/11/03		8.07	153.04	140	9.8	ND<0.50	5.6	ND<0.50	20	1.4	7.4
	06/17/03		8.31	152.80	510	60	1.4	81	ND<1.0	23	2.2	7.0
	$09/18/03^{\rm \ a}$		9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7.0
MW-2	04/19/02	161.87	6.59	155.28	28,000	970	120	860	6,900	760	NA	NA
	09/27/02		7.18	154.69	17,000	1,400	ND<50	1,200	3,700	1,400	1.5	6.8
	12/16/02*		7.31	154.56	17,000	1,000	ND<50	980	3,300	980	1.9	6.8
	03/11/03		6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4
	06/17/03		6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9
	09/18/03		7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8
MW-3	04/19/02	162.14	6.94	155.20	1,200	29	1.1	43	62	1,700	NA	NA
	09/27/02		8.26	153.88	740	7.8	ND<2.5	6.8	4.4	1,100	1.0	6.7
	12/16/02*		6. 7 6	155.38	1,200	13	ND<10	17 0	88	910	2.3	6.8
	03/11/03		6.92	155.22	ND<2,500	ND<25	ND<25	ND<25	ND<25	470	1.7	7.5
	06/17/03		7.44	154.70	ND<1,000	ND<10	ND<10	14	ND<10	530	1.9	7.0
	09/18/03		8.43	153.71	470	4.8	ND<2.5	10	9.2	300	2.9	6.8

amsl = above mean sea level

Source: The data within this table collected prior to September 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

bto = below top of easing

TPH-g = Total petroleum hydrocarbons in the gasoline range (C5-C9).

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (before 12/16/02)

μg/L = micrograms per liter

mg/L = milligrams per liter

ND< = Not detected at or above laboratory reporting limits

^{* =}TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 4th Quarter Sampling event (12/16/02)

a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose. For more details see Attachment B.

b = Dissolved oxygen and pH are field measurements

Table 2 Groundwater Flow Direction and Gradient

ARCO Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient	
04/19/02	Southwest	0.038	
09/27/02	Southwest	0.021	
12/16/02	Southeast	0.029	
03/11/03	South	0.024	
06/17/03	South-Southwest	0.022	
09/18/03	South-Southwest	0.022	

Source: The data within this table collected prior to September 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 3 Fuel Oxygenate Analytical Data

ARCO Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California

Well	Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
Number	Sampled	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L) _	(µg/L)
MW-1	12/16/02	ND<50	ND<5.0	42	ND<0,50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	03/11/03	ND<100	ND<20	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/17/03	ND<200	ND<40	23	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	09/18/03 ^a	ND<100	ND<20	39	ND<0.50	ND<0.50	ND<0.50	ND<0,50	ND<0,50
MW-2	12/16/02	ND<5,000	ND<500	980	ND<50	ND<50	ND<50	ND<50	ND<50
	03/11/03	ND<10,000	ND<2,000	920	ND<50	ND<50	ND<50	ND<50	ND<50
	06/17/03	ND<10,000	ND<2,000	610	ND<50	ND<50	ND<50	ND<50	ND<50
	09/18/03	ND<5,000	ND<1,000	580	ND<25	ND<25	ND<25	ND<25	ND<25
MW-3	12/16/02	ND<1,000	ND<100	910	ND<10	ND<10	12	ND<10	ND<10
	03/11/03	ND<5,000	ND<1,000	470	ND<25	ND<25	ND<25	ND<25	ND<25
	06/17/03	ND<2,000	ND<400	530	ND<10	ND<10	ND<10	ND<10	ND<10
	09/18/03	ND<500	ND<100	300	ND<2.5	ND<2.5	3.2	ND<2.5	ND<2.5

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert butyl ether

TAME = tert-Amyl methyl ether

1,2-DCE = 1,2-Dichloroethane

1,2-DCE = 1,2-Dichloroethane EDB = 1, 2 Dibromoethane µg/L = micrograms per liter

ND< = Not detected at or above laboratory reporting limit

a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose. For more details see Attachment B.

ATTACHMENT A FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear TeflonTM bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project#	03091	8-WD1	_ Date	3/18/03	Client	Arco 4977	
				7 1			
Site	-770	Castro	Volley	, Castro	valler		

	Well		Depth to	Thickness of	Volume of Immiscibles			Survey	
Well ID	Size (in.)	Sheen / Odor	Immiscible Liquid (ft.)		Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Point: TOB	
110-1	4					9.45	14.91		
MW-1 MW-2 MW-3	प					7.61	14.55		
MW-3	4	1				8.43	14.91 14.55 14.95		
		·							
							-		
				-					
			The second secon	 -					
			Little Balleton Anna Licent	. , , , , , , , , , , , , , , , , , , ,					

ARCO / BP WELL MONITORING DATA SHEET

							
BTS#: C		- MDI		Station # Arco 4977			
Sampler:	John 1	DENO	20	Date: 9/18/c	3		
Well I.D.:	MO-1		J	Well Diameter:	2 3 @	<u>5</u> 6 8	
Total Wel	l Depth:	14.91		Depth to Water	9.45		
Depth to F	ree Produ	ct:		Thickness of Fi	ree Product (f	eet):	
Reference	d to:	PVC	Grade	D.O. Meter (if	req'd): (YSU	НАСН
Purge Metho	Well Diamete 1" 2" 3"		0.04 0.16	4" 0.6 6" 1.4	7 * 0.163 Batter		
	Elec Ex	sposable Bail Middleburg ctric Submers ctraction Pum	ible	Other:	Disposable Buile Extraction Port	D —	
Top of Scree			of screen. Otherwi	no-purge, confirm t se, the well must be	purged.	below the to	p
	7.5 1 Case Volu	ıme (Gals.)	X Specified Vo	= /C	Gals.		, , , , , , , , , , , , , , , , , , ,
Time	Temp (°F)	рН	Conductivity (mS o(LS))	Gals. Removed	Observations		
845	73.4	6.7	1333	7.5	clear, ga	s ador	
	(vel	()cast	era) Q	Sqa(DTW=	13.4	
930	7-3. o	7:0	(374		1 = w74	<u></u>	site partura
Did well d			No	Gallons actuall		5	120 p st
Sampling		30)		Sampling Date	1 1	1	
Sample I.)~(Laboratory:	Pace Sequois		
Analyzed		· COBTEX)	MTBE TPH-D	Other Dxyquet	its, Ethanol, 1	,2-DCA, E	505 allby821
D.O. (if re			Pre-purge:	me,			mg ,
O.R.P. (if			Pre-purge:		Post-purg		шV
					<u> </u>	40 (400) 5	

ARCO / BP WELL MONITORING DATA SHEET

DEC 1			· · · · · · · · · · · · · · · · · · ·	Station # A				
	030918	3-MD1		Station # Arco 4977				
Sampler:	John	De 20	120	Date: 9/18/03				
Well I.D.	: MW-	-2.	<i></i>	Well Diameter:	2 3 4 6 8			
Total We	ll Depth:	14.5	3	Depth to Water	7.61			
Depth to	Free Prodi	ıct:		Thickness of F	ree Product (feet):			
Reference	ed to:	PVC	Grade	D.O. Meter (if	req'd): (YSI) насн			
	Well Diame 1" 2" 3"	ter	0.04 (0.6 6" 1.4	l l			
Purge Meth		Bailer		Sampling Method:				
	D	isposable Bai	ler		Disposable Bailer			
		Middleburg etric Sub me r	.:L1	O4h	Extraction Port			
		Extraction Pun		Other.				
	Other:		,h					
Top of Scree			If well is listed as a	va sursa confirm l	that water level is below the top			
Top of Bote	CII			se, the well must be	•			
	(1 -							
·	4.5		x		, 5 Gals.			
	(Case Vol	lume (Gals.)	Specified Vo	lumes Car	culated Volume			
	/r /0E)	7.7	Conductivity	Q I D	Oltions			
Time	Temp (°F)	pH	(mS or (iis)	Gals. Removed	Observations			
855	74.1	6.7	1029	4.5	semi-clear, cox strong yas ador			
	well	Dewote	ved a	7	DTW= 12.95			
				·				
950	74.6	6.8	949		Dius 10,52@site Dep			
Did well	dewater?	Yes	No	Gallons actuall	8			
Sampling	Time:	450		Sampling Date	: 9/18/03			
Sample 1.	D.: Mu	2-2		Laboratory:	Pace Sequoia Other			
Analyzed	for: TP	H-COBTEX	MTBE TPH-D	Other: Oxygorat	75, EThanol, 1,2-DCA, I=DB all by 82,			
D.O. (if r	eq'd):		P re-pu rge:	n.π.\Γ	Post-parge: 2.7 mg/L			
O.R.P. (if	reg'd);		Pre-purge;	mV	Post-purge: mV			

ARCO / BP WELL MONITORING DATA SHEET

				 				
BTS#: C	230918	-MD(Station# Arco 4977				
Sampler:	John	De 20	~ 6	Date: 9/18/03				
Well I.D.:	· MW-	3)	Well Diameter:	2 3 🐴	6 8		
Total Wel	ll Depth:	14.95		Depth to Water	8.43			
Depth to	Free Produ	ict:		Thickness of F	ree Product (feet)):		
Reference	ed to:	PVC	Grade	D.O. Meter (if	req'd):	SP HACH		
	Well Diamer				<u>ıltiplier</u>			
	1"		0.04 <i>C</i> 0.16	4 ^F 0.6 6" 1.4				
	3"			•	* 0.163			
Purge Metho	nd.	Bailer	· · · · · · · · · · · · · · · · · · ·	Sampling Method:	- Darlet			
I digo Monic		isposable Bail	ler	Jumpung managa	Disposable Bailer			
	D	Middleburg	•		Extraction Port			
	دا 1-1	enic Submers	ible	Other:				
		xtraction Pun						
		ACTUALITY OF THE	**					
				-		47		
Top of Scree	en:				that water level is bel	ow the top		
			of screen. Otherwi	se, the well must be	purged.			
	(1	<u> </u>	7		5 A			
•		<u> </u>	x	= <u></u>	Gals.			
	1 Case Vol	ume (Gals.)	Specified Vo	olumes Cal	culated Volume			
			Conductivity					
Time	Temp (°F)	pН	(mS or(IS)	Gals. Removed	Observations			
833_	75.3	6.2	871	4.5	clear, strong	995 ODA		
	well	dowat	erca	5.0	DTW=13.	oʻ		
910	75.2	6.8	863		DTW=10.51	, @ Sitc Separture		
	dewater?		No	Gallons actuall	y evacuated: 5			
			·		<u></u>			
Sampling	Time:	910		Sampling Date	<u> 9/18/03</u>			
Sample I.	D.: MU	J-3		Laboratory:	Pace Sequoia	Other		
Analyzed	for:	H-GOBTEX) MTBE TPH-D		75, ETherel, 1,2-	DCA, EDB allbyg:		
D.O. (if r	eq'd):		Pre-purge:	mg/L	Post-Durge:	2.9		
O.R.P. (if	freq'd):		Pre-purge:	mV	Post-purge:	mV		
								

BP GEM OIL COMPANY TYPE A BILL OF LADING

BILL OF LADING FOR NON-SOURCE RECORD RECOVERED **HAZARDOUS** PURGEWATER FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility; from a BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

Airo 4977	
Station # 2770 (astro Valle Station Address	plus.
2770 Costro Valle	y! Castro vally
Station Address	
Total Gallons Collected From Gro	oundwater Monitoring Wells:
15	
added equip.	any other
rinse water	adjustments
TOTAL GALS.	loaded onto
RECOVERED /5	BTS vehicle #
BTS event # 030918/ND1	time OIF date
	/ /
1.00	
signature /owww.	
7	
* * * * * * * * * * * * * * * * * * * *	*****
REC'D AT	time date
	//
unloaded by	
signature	



WELLHEAD INSPECTION CHECKLIST BP / GEM

Page 1 of 1

te Address _	2770 G	estro L	beley,	<u>(ast</u> Teo	hnician	John I	DeJony	
op Mamper [–]	O30918-M Well Inspected - No Corrective	Water Salled	1	Сар	Debris Removed From	Lock Replaced	Other Action Taken (explain	Well Not Inspected {explain
Well ID	Action Required	Wellbox	Cleaned	Replaced	Wellbox	Keplaced	below)	below)
MW-I								W
MW-Z								•
MW-3					<u></u>			*
<u> </u>								
<u></u> ;			-				ļ <u></u>	
			!					-
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NOTES:			<u>.</u>		· · · · · · · · · · · · · · · · · · ·			
			······································	·				
								

ATTACHMENT B

LABORATORY PROCEDURES, CERTIFIED ANALYTICAL REPORTS, AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Group Environmental Management Company have been reviewed and verified by that laboratory.



13 October, 2003

Scott Robinson URS Corporation [Arco] 500 12th Street, Suite 200 Oakland, CA 94607

RE: ARCO #4977, Castro Valley, CA Work Order: MMI0549

There aller

Enclosed are the results of analyses for samples received by the laboratory on 09/19/03 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen Project Manager

CA ELAP Certificate #1210





Project: ARCO #4977, Castro Valley, CA

MMI0549 Project Number: INTRIM-50467 Reported: 10/13/03 08:42 Project Manager: Scott Robinson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMI0549-01	Water	09/18/03 09:30	09/19/03 10:40
MW-2	MMI0549-02	Water	09/18/03 09:50	09/19/03 10:40
MW-3	MMI0549-03	Water	09/18/03 09:10	09/19/03 10:40
Trip Blank	MMI0549-04	Water	09/18/03 00:00	09/19/03 10:40

There were custody seals that were received with this project.





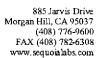
Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467
Project Manager: Scott Robinson

MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

		Reporting	υυ						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (MMI0549-01) Water Sa	mpled: 09/18/03 09:30	Received:	09/19/03	10:40					
Ethanol	ND	50000	ug/l	500	3130003	09/30/03	09/30/03	EPA 8260B	
tert-Butyl alcohol	ND	10000	**	"	II	11	1*	n	
Methyl tert-butyl ether	ND	250	11	11	11	11	1+	н	
Di-isopropyl ether	ND	250	**	11	u	11	1+	n	
Ethyl tert-butyl ether	ND	250	**	"	"	11	57	17	
tert-Amyl methyl ether	ND	250	"	14	11	**	b	"	
1,2-Dichloroethane	ND	250	17	11	"	Ħ	"	1)	
1,2-Dibromoethane (EDB)	ND	250	ıı	**	"	*1	"	1)	
Benzene	ND	250	"	14	16	**	H	i!	
Toluene	ND	250	"	**	**	11	,,	II.	
Ethylbenzene	ND	250	n	**	11	"	•	ji	
Xylenes (total)	ND	250	"	"	**	11	**	II .	
Gasoline Range Organics (C6-C10)	ND	25000	11	11	**	31	"	n	
Surrogate: 1,2-Dichloroethane-d4		104 %	78-	129	ıı	"	ti	"	
MW-1 (MMI0549-01RE1) Water	Sampled: 09/18/03 09	:30 Recei	ved: 09/	19/03 10:4	0				HT-RA
Ethanol	ND	100	ug/l	1	3103006	10/03/03	10/03/03	EPA 8260B	-
tert-Butyl alcohol	ND	20	"	**	,,	"	59	п	
Methyl tert-butyl ether	39	0.50		"	11	11	**	u	
Di-isopropyl ether	ND	0.50	п	11	11	11	**	11	
Ethyl tert-butyl ether	ND	0.50		11	"	1+	n	11	
tert-Amyl methyl ether	ND	0.50	u	**	"	#	H	"	
1,2-Dichloroethane	ND	0.50	**	**	11	"	**	**	
1,2-Dibromoethane (EDB)	ND	0.50	11	"	**	D	n	11	
Benzene	2.4	0.50	11	"	11	n	II .	11	
Toluene	1.4	0.50	11	n	n	D.	ji ji	**	
Ethylbenzene	1.6	0.50	**	II .	"	n	n	u	
Xylenes (total)	1.5	0.50	1†	11	"	n	II .	11	
Gasoline Range Organics (C6-C1		50	•	"	p	п	п	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	78-	-129	v	"	и	н	





Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467 Project Manager: Scott Robinson MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

	<u> </u>	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-2 (MMI0549-02) Water	Sampled: 09/18/03 09:50	Received:	09/19/03	3 10:40		•			
Ethanol	ND	5000	ug/l	50	3130003	09/30/03	09/30/03	EPA 8260B	
tert-Butyl alcohol	ND	1000	ш	"	"	"	77		
Methyl tert-butyl ether	580	25	n	M.	11	"	**	II .	
Di-isopropyl ether	ND	25	11	и	,,,	ч	14	ii.	
Ethyl tert-butyl ether	ND	25	11	v	11	**	**	ii.	
tert-Amyl methyl ether	ND	25	11	**	v	"	**	n .	
1,2-Dichloroethane	ND	25	п	"	,,	"	**	11	
1,2-Dibromoethane (EDB)	ND	25	11	"	,,,	"	**	"	
Benzene	960	25	11	**	w	11	**	11	
Toluene	63	25	11	**	n	**	Ħ	u	
Ethylbenzene	1100	25	11	11		11	**	u	
Xylenes (total)	3100	25		11	v	**	**	и	
Gasoline Range Organics (C6-	·C10) 19000	2500	n	**	D	**	††	ч	
Surrogate: 1,2-Dichloroethane-	d4	101 %	78-	129	"	"	"	"	
MW-3 (MM10549-03) Water	Sampled: 09/18/03 09:10	Received:	09/19/03	3 10:40					
Ethanol	ND	500	ug/l	5	3130003	09/30/03	09/30/03	EPA 8260B	
tert-Butyl alcohol	ND	100	ш	"	,,	"	**	11	
Methyl tert-butyl ether	300	2.5		4	v	"	**	u	
Di-isopropyl ether	ND	2.5	n	v	n	"	**		
Ethyl tert-butyl ether	ND	2.5	n	"	D	ч	*1	u	
tert-Amyl methyl ether	3.2	2.5	п	"	"	ч	**	u	
1,2-Dichloroethane	ND	2.5	11		,,,	**	**	a	
1,2-Dibromoethane (EDB)	ND	2.5	n	**	n	"	**	11	
	4.6	2.5	ш		"	**	**	"	
Benzene	4.8	د.2							
Benzene Toluene	4.8 ND	2.5	11	"	Ü	11	**	· ·	
			11 11	11	11	17	91 91	11	
Toluene	ND	2.5							
Toluene Ethylbenzene	ND 10 9.2	2.5 2.5	п	11	u	11	**	"	





Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467
Project Manager: Scott Robinson

MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3I30003 - EPA 5030B P/T										
Blank (3130003-BLK1)				Prepared &	& Analyze	d: 09/30/0	73			
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	11							
1,2-Dichloroethane	ND	0.50	p							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	p							
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	n							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	II.							
Surrogate: 1,2-Dichloroethane-d4	4.82		1/	5.00		96.4	78-129			
Laboratory Control Sample (3130003-BS1)				Prepared &	& Analyze	d: 09/30/0)3			
Ethanol	153	100	ug/l	200	 -	76.5	31-186			
tert-Butyl alcohol	47.7	20	"	50.0		95.4	0-206			
Methyl tert-butyl ether	10.2	0.50	11	10.0		102	63-137			
Di-isopropyl ether	9.67	0.50	II .	10.0		96.7	76-130			
Ethyl tert-butyl ether	9.53	0.50	и	10.0		95.3	61-141			
tert-Amyl methyl ether	9.64	0.50	11	10.0		96.4	56-140			
1,2-Dichloroethane	10.1	0.50	"	10.0		101	77-136			
1,2-Dibromoethane (EDB)	10.9	0.50	II .	10.0		109	77-132			
Renzene	9.98	0.50	"	10.0		99.8	78-124			
Toluene	10.5	0.50	и	10.0		105	78-129			
Ethylbenzene	10.5	0.50	"	10.0		105	84-117			
Xylenes (total)	30.8	0.50	п	30.0		103	83-125			
Surrogate: 1,2-Dichloroethane-d4	4.55		n	5.00		91.0	78-129			





Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467 Project Manager: Scott Robinson MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3I30003 - EPA 5030B P/T										
Laboratory Control Sample (3I30003-BS2)				Drenared	& Analyz	ad- 00/20/	03		·	
Methyl tert-butyl ether	8.25	0.50	ug/l	10.1	& Allaryz	81.7	63-137			
Benzene	5.31	0.50	u _Б ,1	6.48		81.9	78-124			
Toluene	32.0	0.50	,,	29.7		108	78-129			
Ethylbenzene	7.79	0.50	17	7.20		108	84-117			
Xylenes (total)	37.9	0.50	n	33.7		112	83-125			
Gasoline Range Organics (C6-C10)	314	50	11	440		71.4	70-113			
Surrogate: 1,2-Dichloroethane-d4	4.62		"	5.00		92.4	78-129			
Laboratory Control Sample Dup (3130003-	BSD1)			Prepared	& Analyz	ed: 09/30/	03			
Ethanol	196	100	ug/l	200		98.0	31-186	24.6	37	
tert-Butyl alcohol	51.5	20	11	50.0		103	0-206	7.66	22	
Methyl tert-butyl ether	10.2	0.50	n	10.0		102	63-137	0.00	13	
Di-isopropyl ether	9.96	0.50	11	10.0		99.6	76-130	2.95	9	
Ethyl tert-butyl ether	9.79	0.50	11	10.0		97.9	61-141	2.69	9	
ert-Amyl methyl ether	9.50	0.50	11	10.0		95.0	56-140	1.46	12	
1,2-Dichloroethane	10.3	0.50	n	10.0		103	77-136	1.96	13	
,2-Dibromoethane (EDB)	10.5	0.50	n	10.0		105	77-132	3.74	9	
Benzene	10.1	0.50	п	10.0		101	78-124	1.20	12	
Poluene Poluene	10.2	0.50	n	10.0		102	78-129	2.90	10	
Ethylbenzene	9.67	0.50	n	10.0		96.7	84-117	8.23	10	
Xylenes (total)	27.7	0.50	n	30.0		92.3	83-125	10.6	11	
Surrogate: 1,2-Dichloroethane-d4	4.87		"	5.00		97.4	78-129			
Laboratory Control Sample Dup (3130003-	BSD2)			Prepared	& Analyz	ed: 09/30/	03			
Methyl tert-butyl ether	8.54	0.50	ug/l	10.1		84.6	63-137	3.45	13	
Benzene	5.69	0.50	и	6.48		87.8	78-124	6.91	12	
Toluene	32.2	0.50	п	29.7		108	78-129	0.623	10	
Ethylbenzene	7.81	0.50	"	7.20		108	84-117	0.256	10	
Xylenes (total)	37.4	0.50	· ·	33.7		111	83-125	1.33	11	
Gasoline Range Organics (C6-C10)	319	50	u	440		72.5	70-113	1.58	9	
Surrogate: 1,2-Dichloroethane-d4	5.02		**	5.00		100	78-129			





Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467 Project Manager: Scott Robinson MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3J03006 - EPA 5030B Modified										
Blank (3J03006-BLK1)				Prepared a	& Analyzo	:d: 10/03/0	03			
Ethanol	ND	100	ug/l				,			
tert-Butyl alcohol	ND	20	н							
Methyl tert-butyl ether	ND	0.50	н							
Di-isopropyl ether	ND	0.50	**							
Ethyl tert-butyl ether	ND	0.50	**							
tert-Amyl methyl ether	ND	0.50	*1							
1,2-Dichloroethane	ND	0.50	11							
1,2-Dibromoethane (EDB)	ND	0.50	**							
Benzene	ND	0.50	"							
Toluene	ND	0.50	u,							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	1)							
Surrogate: 1,2-Dichloroethane-d4	4.82		п	5.00		96.4	78-129			
Laboratory Control Sample (3J03006-BS1)				Prepared a	& Analyze	d: 10/03/	03			
Ethanol	162	100	ug/l	200		81.0	31-186			
tert-Butyl alcohol	35.4	20	1)	50.0		70.8	0-206			
Methyl tert-butyl ether	8.51	0.50	"	10.0		85.1	63-137			
Di-isopropyl ether	9.57	0.50	11	10.0		95.7	76-130			
Ethyl tert-butyl ether	9.40	0.50	***	10.0		94,0	61-141			
tert-Amyl methyl ethor	9.31	0.50	11	10.0		93.1	56-140			
1,2-Dichloroethane	9.37	0.50	***	10.0		93.7	77-136			
1,2-Dibromoethane (EDB)	9.66	0.50	11	10.0		96.6	77-132			
Benzene	10.0	0.50	11	10.0		100	78-124			
Toluene	10.6	0.50	11	10.0		106	78-129			
Ethylbenzene	11.0	0.50	"	10.0		110	84-117			
Xylenes (total)	33.1	0.50	11	30.0		110	83-125			

5.00

4.78

Surrogate: 1,2-Dichloroethane-d4

95.6

78-129





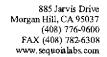
Project: ARCO #4977, Castro Valley, CA

Project Number: INTRIM-50467
Project Manager: Scott Robinson

MMI0549 Reported: 10/13/03 08:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3J03006 - EPA 5030B Modi	fied					·				
Laboratory Control Sample (3J03006-	BS2)			Prepared .	& Analyze	ed: 10/03/	03			
Gasoline Range Organics (C6-C10)	451	50	ug/l	440		102	70-113			
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00		98.0	78-129			
Laboratory Control Sample Dup (3J03	3006-BSD1)			Prepared:	10/03/03	Analyzed	l: 10/04/03			
Ethanol	186	100	ug/l	200		93.0	31-186	13.8	37	
tert-Butyl alcohol	40.2	20	**	50.0		80.4	0-206	12.7	22	
Methyl tert-butyl ether	9.21	0.50	11	10.0		92.1	63-137	7.90	1.3	
Di-isopropyl ether	10.1	0.50	"	10.0		101	76-130	5.39	9	
Ethyl tert-butyl ether	10.1	0.50	11	10.0		101	61-141	7.18	9	
tert-Amyl methyl ether	10.0	0.50	n	10.0		100	56-140	7.15	12	
1,2-Dichloroethane	9.86	0.50	11	10.0		98.6	77-136	5.10	13	
1,2-Dibromoethane (EDB)	10.3	0.50	11	10.0		103	77-132	6.41	9	
Benzene	10.1	0.50	11	10.0		101	78-124	0.995	12	
Toluene	9,94	0.50	11	10.0		99.4	78-129	6.43	10	
Ethylbenzene	10.4	0.50	u	10.0		104	84-117	5.61	10	
Xylenes (total)	31.2	0.50	11	30.0		104	83-125	5.91	11	
Surrogate: 1,2-Dichloroethane-d4	4.91	·	n	5.00		98.2	78-129			
Laboratory Control Sample Dup (3J0)	3006-BSD2)			Prepared:	10/03/03	Analyze	1: 10/04/03			
Gasoline Range Organics (C6-C10)	415	50	ug/l	440		94.3	70-113	8.31	9	
Surrogate: 1,2-Dichloroethane-d4	5.12		n	5.00		102	78-129			





Project: ARCO #4977, Castro Valley, CA

Project Number: [NTRIM-50467 Project Manager: Scott Robinson MMI0549 Reported: 10/13/03 08:42

Notes and Definitions

HT-RA This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was

performed past the recommended hold time. The results may still be used for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record Project Name 44 HGWM

BP BU/GEM CO Portfolio Retail

BP Laboratory Contract Number: Atlantic Richfield Company

On-sile Time: Temp: 76 Off- site Time:

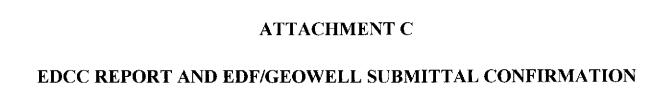
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CLIENT NAME:\ REC. BY{FRINT) WORKORDER:	IRS A-5 MMI 0549			TIME REC'D . DATE LOGGE	AT LAB; ED IN;	9-19-0	3		Drinking wa regulatory p Wastewater regulatory p	ter for urposes: for	YES(
	·				e ^{1€}			·			
CIRCLE THE APPROPR	IATE RESPONSE	LAB SAMPLE#	DASH #	CLIRNY	m	CONTAINER DESCRIPTION	VATIVE	MATRIX	SAMPLED	CONDIT	
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u	Present Absent	.,,,,,									
5. Airbill#:			<u> </u>	 		·	<u> </u>	<u> </u>			
3	Present Absent		ļ. <u> </u>	<u> </u>	•,		ļ 	/			
j , , , , , , , , , , , , , , , , , , ,	istedy Not Listed on Chain-of-Custody	<u></u>									
8. Sample Condition:	Intect Broken* /										
9. Does information on custody reports, traffic reports and sample					18	-		-			
labels agree?	(Ydg/No*	}	<u> </u>	<u> </u>			<u> </u>	 			
10. Sample received within hold time:	(Y03)/ No*									<u>.</u>	
11. Proper Preservatives	(Yes) Nö≠								1		
12. Temp Rec, at Lab: 1s temp 4 +/-2°C?	7.3°C Yes/No**			·					-		
(Acceptance range for samples requ	uiring thermal irres.)	/					<u> </u>	<u> </u>	,		
#*Bxception (if any): Metals /	DIF (Direct From Field)			1 -		<u> </u>		<u> </u>			
or Problem COC		12			NEW CONTROL	***************************************	5 may 2 may 1 m				(<u>CX-230)3</u>
Sample Receipt Log		*II' CT	RCJ E	D, CONTACT	PROJE	CT MANAGER	AND A'I	TACH RI	CORD OF	KESOLU.	CION.

- Sample Receipt Log Revision 3 (03/18/03) Replaces Ravision 2.3 (12/24/02) Effective 03/18/03 Page ____ of ___



Error Summary Log

10/13/03 EDF 1.2i All files present in deliverable.

Laboratory:

Sequoia Analytical Laboratories, Inc., Morgan Hill, CA

Project Name:

ARCO #4977, Castro Valley

Work Order Number:

MMI0549

Global ID:

NA

Lab Report Number:

MMI0549101320030842

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotcti	Run Sub
MM105491013200	MW-1	MMI054901	W	CS	8260TPH	SW5030B	09/18/03	09/30/03	09/30/03	3130003	1
30842											
MMI05491013200	MVV-1	MMI054901R1	W	cs	8260TPH	SW5030B	09/18/03	10/03/03	10/03/03	3J03006	1
30842											
MMI05491013200	MW-2	MMI054902	W	cs	8260TPH	SW5030B	09/18/03	09/30/03	09/30/03	3130003	1
30842											
MMI05491013200	MW-3	MMI054903	W	CS	8260TPH	SW5030B	09/18/03	09/30/03	09/30/03	3130003	1
30842											
		3 30003BSD1	WQ	BD1	8260TPH	SW5030B	11	09/30/03	09/30/03	3 30003	1
		3l30003BSD2	WQ	BD2	8260TPH	SW5030B	11	09/30/03	09/30/03	3130003	1
		3I30003BS1	WQ	BS1	8260TPH	SW5030B	11	09/30/03	09/30/03	3130003	1
		3I30003BS2	WQ	BS2	8260TPH	SW5030B	11	09/30/03	09/30/03	3130003	1
		3I30003BLK1	WQ	LB1	8260TPH	SW5030B	11	09/30/03	09/30/03	3130003	1
		3J03006BSD1	WQ	BD1	8260TPH	SW5030B	11	10/03/03	10/04/03	3J03006	1
		3J03006BSD2	WQ	BD2	8260TPH	SW5030B	11	10/03/03	10/04/03	3J03006	1
		3J03006BS1	WQ	BS1	8260TPH	SW5030B	11	10/03/03	10/03/03	3J03006	1
		3J03006BS2	WQ	BS2	8260TPH	SW5030B	11	10/03/03	10/03/03	3J03006	1
		3J03006BLK1	WQ	LB1	8260TPH	SW5030B	11	10/03/03	10/03/03	3J03006	1

EDFSAMP: Error Summary Log

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					11	0

EDFRES: Error Summary Log

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
There are no errors in this data file						11	0	

EDFQC: Error Summary Log

Error type	Lablotcti	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	11				

AB2886 Electronic Delivery Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

Confirmation Number: 9764624357

Date/Time of Submittal: 10/13/2003 12:28:19 PM

Facility Global ID: T0600100089

Facility Name: ARCO

Submittal Title: 3rd Qtr 2003 Monitoring Report for #4977

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

AB2886 Electronic Delivery Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Title:

3rd Qtr 2003 Geowell for #4977

Submittal Date/Time: 10/13/2003 12:29:52 PM

Confirmation Number: 9017887711

Back to Main Menu

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CONTACT SITE ADMINISTRATOR.