



Atlantic Richfield Company (a BP affiliated company)

RECEIVED By lopprojectop at 10:48 am, May 03, 2006

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

April 26, 2006

Re: First Quarter 2006 Groundwater Monitoring Report ARCO Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California ACEH Case No. 01-0097

"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



RECEIVED

By lopprojectop at 10:48 am, May 03, 2006

April 26, 2006

Mr. Don Hwang Alameda County Environmental Health (ACEH) Copy Submitted Electronically 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: First Quarter 2006 Groundwater Monitoring Report ARCO Service Station #4977 2770 Castro Valley Blvd Castro Valley, California ACEH Case No. 01-0097

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2006 Groundwater Monitoring Report* for ARCO Service Station #4977, located at 2770 Castro Valley Boulevard, Castro Valley, California.

If you have any questions regarding this submission, please call (510) 874-3296.

Sincerely,

URS CORPORATION

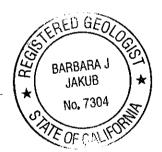
Barbaralake

Barbara Jakub, P.G. Project Manager

Enclosure: First Quarter 2006 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS Mr. Rob Miller, Broadbent & Associates, Inc., electronic copy uploaded to ENFOS

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268



REPORT

RECEIVED By lopprojectop at 10:49 am, May 03, 2006

FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

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

Prepared for RM

April 26, 2006



URS Corporation 1333 Broadway, Suite 800 Oakland, California 94612

	Date:	April 26, 2006
	Quarter:	1Q 06
FIRST QUARTER 2006 GROUNDWATER N	MONITORING	REPORT

(First - 2006):

Facility No.:	4977	Address:	2770 Castro Valley Blvd, Castro Valley, CA	
RM Environmental	Business Manager:		Paul Supple	
Consulting Co./Cor	ntact Person:		URS Corporation / Barbara Jakub	
Primary Agency:			Alameda County Environmental Health (ACEH)	
ACEH Case No.:			01-0097	

WORK PERFORMED THIS OUARTER

1. Prepared and submitted the Fourth Quarter 2005 Groundwater Monitoring Report.

2. Performed the first quarter 2006 groundwater monitoring event on March 16, 2006.

WORK PROPOSED FOR NEXT QUARTER (Second – 2006):

Prepare and submit this First Quarter 2006 Groundwater Monitoring Report. 1.

2. Perform the second quarter 2006 groundwater monitoring event.

3. Prepare and submit the Second Quarter 2006 Groundwater Monitoring Report.

SITE SUMMARY:

Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-1 through MW-3
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product Present On-Site:	No
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	6.10 ft (MW-3) to 7.25 ft (MW-2)
Groundwater Gradient (direction):	Southeast
Groundwater Gradient (magnitude):	0.02 feet per foot

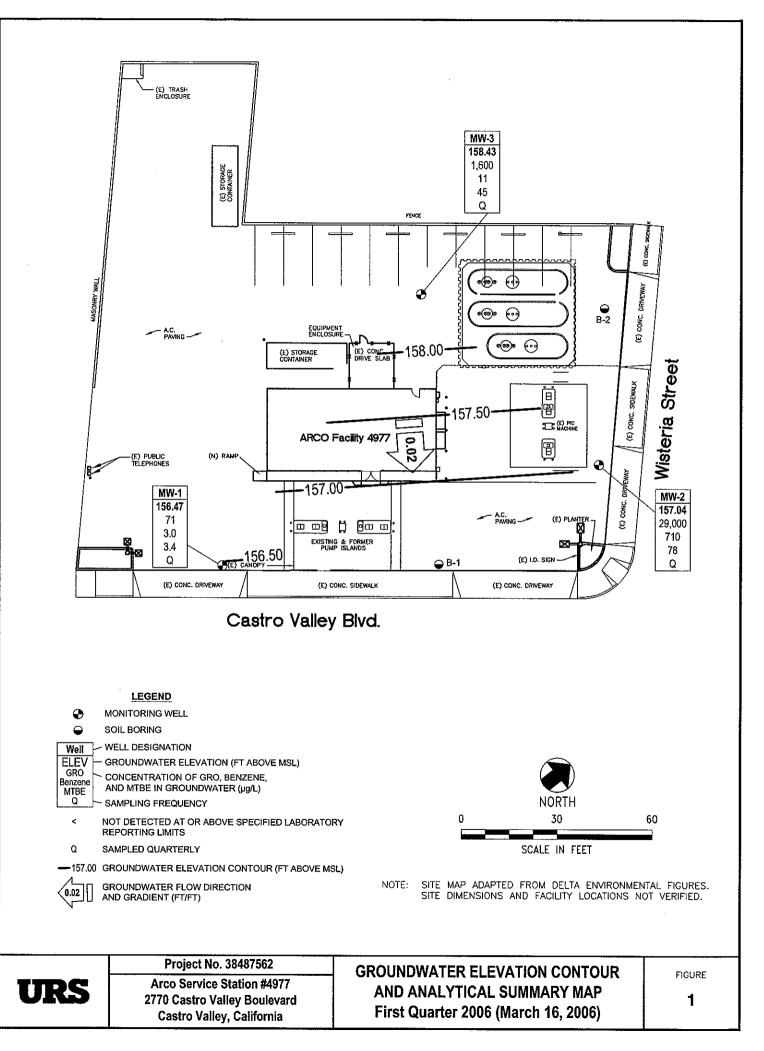
DISCUSSION:

Gasoline range organics were detected at or above laboratory reporting limit in all of the three wells sampled this quarter at concentrations ranging from 71 micrograms per liter (µg/L) (MW-1) to 29,000 µg/L (MW-2). Benzene was detected at or above laboratory reporting limit in three wells at concentrations ranging from 3.0 µg/L (MW-1) to 710 µg/L (MW-2). Ethylbenzene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 3.5 µg/L (MW-1) to 1,400 µg/L (MW-2). Xylenes were detected at or above the laboratory reporting limit in two wells at concentrations of 6.4 µg/L (MW-3) and 2,600 µg/L (MW-2). Methyl tertbutyl ether was detected at or above laboratory reporting limit in three wells at concentrations ranging from 3.4 µg/L (MW-1) to 78 µg/L (MW-2). Tert-Butyl alcohol and tert-Amyl methyl ether were detected at or above their respective laboratory reporting limits in one well (MW-3) at concentrations of 160 µg/L and 0.84 µg/L, respectively. No other fuel components were detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter.

ATTACHMENTS:

- Figure 1 Groundwater Elevation Contour and Analytical Summary Map March 16, 2006
- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Fuel Additives Analytical Data
- Table 3 Groundwater Gradient Data
- Attachment A Field Procedures and Field Data Sheets
- Attachment B Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C Error Check Reports and EDF/Geowell Submittal Confirmations

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Groundwater Elevation and Analytical Data

ARCO Service Station #4977	
2770 Castro Valley Blvd., Castro Valley, CA	

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	рH
MW-1	4/19/2002			161.11	5.00	15.00	11.21	149.90	660	12	1.3	4.3	0.8	38		
	9/27/2002			161.11	5.00	15.00	9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9
	12/16/2002		а	161.11	5.00	15.00	8.55	152.56	77	1.8	<0.50	0.69	<1.0	42	1.6	6.9
	3/11/2003			161.11	5.00	15.00	8.07	153.04	140	9.8	<0.50	5.6	<0.50	20	1.4	7.4
6/1	6/17/2003			161.11	5.00	15.00	8.31	152.80	510	60	1.4	81	<1.0	23	2.2	7
	9/18/2003		b	161.11	5.00	15.00	9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7
	12/11/2003	Р		161.11	5.00	15.00	8.80	152.31	79	1.5	<0.50	1.5	4.4	48	2.1	7.0
	03/11/2004	Р		163.44	5.00	15.00	7.61	155.83	<50	1.3	<0.50	0.77	1.3	17	1.4	6.8
	06/02/2004	Р		163.44	5.00	15.00	8.95	154.49	53	1.4	<0.50	0.93	<0.50	39	2.3	7.1
	09/22/2004	P		163.44	5.00	15.00	9.42	154.02	70	<0.50	<0.50	<0.50	<0.50	48	1.7	6.8
	12/15/2004	P		163.44	5.00	15.00	7.88	155.56	63	<0.50	<0.50	<0.50	<0.50	45	1.8	6.9
	03/07/2005	Р		163.44	5.00	15.00	7.02	156.42	<50	<0.50	<0.50	<0.50	<0.50	4.0	2.4	6.8
	06/27/2005	Р		163.44	5.00	15.00	7.53	155.91	52	2.0	<0.50	1.9	0.78	8.1	2.8	7.1
	09/16/2005	P		163.44	5.00	15.00	9.20	154.24	<50	<0.50	<0.50	<0.50	0.76	14	1.82	6.9
	12/27/2005	P		163.44	5.00	15.00	7.60	155.84	<50	1.3	<0.50	1.5	<0.50	9.4	2.02	7.8
	03/16/2006	Ρ		163.44	5.00	15.00	6.97	156.47	71	3.0	<0.50	3.5	<0.50	3.4	1.6	7.1
MW-2	4/19/2002			161.87	5.00	15.00	6.59	155.28	28,000	970	120	860	6,900	760		
	9/27/2002			161.87	5.00	15.00	7.18	154.69	17,000	1,400	<50	1,200	3,700	1,400	1.5	6.8
	12/16/2002		а	161.87	5.00	15.00	7.31	154.56	17,000	1,000	<50	980	3,300	980	1.9	6.8
	3/11/2003			161.87	5.00	15.00	6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4
	6/17/2003			161.87	5.00	15.00	6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9
	9/18/2003			161.87	5.00	15.00	7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8
	12/11/2003	Р		161.87	5.00	15.00	6.50	155.37	29,000	710	53	1,300	3,800	490	2.0	7.0
	03/11/2004	P		164.29	5.00	15.00	6.02	158.27	19,000	830	49	1,500	4,000	410	0.8	6.5
	06/02/2004	P		164.29	5.00	15.00	7.14	157.15	25,000	680	<50	1,300	3,900	240	4.3	7.1
	09/22/2004			164.29	5.00	15.00	7.63	156.66	15,000	980	<25	980	940	390		6.7
	12/15/2004	P	с	164.29	5.00	15.00	6.48	157.81	22,000	610	26	1,300	3,200	290	0.3	6.9
	03/07/2005	P		164.29	5.00	15.00	6.08	158.21	25,000	570	33	1,400	3,900	120	2.3	6.8
	06/27/2005	Р		164.29	5.00	15.00	6.90	157.39	24,000	630	32	1,200	2,900	86	2.5	7.2
	09/16/2005	Р		164.29	5.00	15.00	7.66	156.63	25,000	550	<25	1,400	3,000	82	1.41	7.0
	12/27/2005	Р		164.29	5.00	15.00	5.60	158.69	33,000	540	<25	1,300	2,700	100	2.26	7.1
	03/16/2006	Р	C	164.29	5.00	15.00	7.25	157.04	29,000	710	<50	1,400	2,600	78	1.4	7.1

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Groundwater Elevation and Analytical Data

ARCO Service Station #4977
2770 Castro Valley Blvd., Castro Valley, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	рН
MW-3	9/27/2002		-	162.14	5.00	15.00	8.26	153.88	740	7.8	<2.5	6.8	4.4	1,100	1	6.7
	12/16/2002		а	162.14	5.00	15.00	6.76	155.38	1,200	13	<10	170	88	910	2.3	6.8
	3/11/2003			162.14	5.00	15.00	6.92	155.22	<2,500	<25	<25	<25	<25	470	1.7	7.5
	6/17/2003			162.14	5.00	15.00	7.44	154.70	<1,000	<10	<10	14	<10	530	1.9	7
	9/18/2003			162.14	5.00	15.00	8.43	153.71	470	4.8	<2.5	10	9.2	300	2.9	6.8
	12/11/2003	Р		162.14	5.00	15.00	6.72	155.42	<500	<5.0	<5.0	7.0	13	180	1.9	6.9
	03/11/2004	Р		164.53	5.00	15.00	6.09	158.44	360	1.9	<1.0	5.6	5.0	110	2.6	6.8
	06/02/2004	Р		164.53	5.00	15.00	7.50	157.03	380	2.8	<0.50	8.0	2.1	43	3.6	7.3
	09/22/2004	Р		164.53	5.00	15.00	8.00	156.53	270	<0.50	<0.50	0.54	<0.50	50	1.8	6.9
	12/15/2004	Ρ		164.53	5.00	15.00	6.43	158.10	390	3.5	<0.50	20	3.7	49	1.1	6.9
	03/07/2005	Р	· · · · · · · · · · · · · · · · · · ·	164.53	5.00	15.00	6.12	158.41	1,900	13	<1.0	93	29	70	2.3	6.8
	06/27/2005	Р		164.53	5.00	15.00	7.08	157.45	830	4.0	<0.50	13	2.8	33	3.3	7.3
	09/16/2005	Р		164.53	5.00	15.00	7.28	157.25	320	2.1	<0.50	5.4	0.60	21	2.11	7.0
	12/27/2005	Р		164.53	5.00	15.00	6.47	158.06	770	6.0	<0.50	33	2.7	36	2.96	7.42
	03/16/2006	Р	· · · ·	164.53	5.00	15.00	6.10	158.43	1,600	11	<0.50	59	6.4	45	1.4	7.1

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Groundwater Elevation and Analytical Data

ARCO Service Station #4977 2770 Castro Valley Blvd., Castro Valley, CA

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limits</p>
-- = Not measured, sampled, analyzed, applicable
ft bgs = Feet below ground surface
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
GRO = Gasoline range organics
GWE = Groundwater elevation in ft MSL
mg/L = Milligrams per liter
ft MSL = Feet above mean sea level
MTBE = Methyl tert-butyl ether analyzed by EPA Method 8021B unless otherwise noted (before 12/16/02)
P/NP = Well was purged/not purged prior to sampling
TPH-g = Total petroleum hydrocarbons as gasoline (C5-C9)
TOC = Top of casing measured in ft MSL
µg/L = Micrograms per liter

FOOTNOTES:

a = TPH, benzene, toluene, ethylbenzene, total xylenes, and MTBE analyzed by EPA Method 8260B beginning on 4th quarter sampling event (12/16/02). b = 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.

c = Sheen in well.

NOTES:

The data within this table collected prior to September 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Wells were re-surveyed on 3/23/2004.

Values for DO and pH were field measurements.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Fuel Additives Analytical Data

ARCO Service Station #4977 2770 Castro Valley Blvd., Castro Valley, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-1	12/16/2002	<50	<5.0	42	<0.50	<0.50	<0.50	<0.50	<0.50	
	3/11/2003	<100	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	· · ·
	6/17/2003	<200	<40	23	<1.0	<1.0	<1.0	<1.0	<1.0	
	9/18/2003	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	a
	12/11/2003	<100	<20	48	< 0.50	<0.50	<0.50	<0.50	<0.50	
	03/11/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/02/2004	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	48	< 0.50	<0.50	<0.50	<0.50	<0.50	
	12/15/2004	<100	<20	45	<0.50	<0.50	<0.50	<0.50	<0.50	а
	03/07/2005	<100	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/27/2005	<100	<20	8.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/16/2005	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/27/2005	<100	<20	9.4	<0.50	<0.50	<0.50	<0.50	<0.50	b
	03/16/2006	<300	<20	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	С
MW-2	12/16/2002	<5,000	<500	980	<50	<50	<50	<50	<50	
	3/11/2003	<10,000	<2,000	920	<50	<50	<50	<50	<50	
	6/17/2003	<10,000	<2,000	610	<50	<50	<50	<50	<50	
	9/18/2003	<5,000	<1,000	580	<25	<25	<25	<25	<25	
	12/11/2003	<5,000	<1,000	490	<25	<25	<25	<25	<25	
	03/11/2004	<2,000	<400	410	<10	<10	<10	<10	<10	
	06/02/2004	<10,000	<2,000	240	<50	<50	<50	<50	<50	
	09/22/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
	12/15/2004	<2,000	<400	290	<10	<10	<10	<10	<10	а
	03/07/2005	<5,000	<1,000	120	<25	<25	<25	<25	<25	
	06/27/2005	<5,000	<1,000	86	<25	<25	<25	<25	<25	
	09/16/2005	<5,000	<1,000	82	<25	<25	<25	<25	<25	
	12/27/2005	<5,000	<1,000	100	<25	<25	<25	<25	<25	b
	03/16/2006	<30,000	<2,000	78	<50	<50	<50	<50	<50	C
MW-3	12/16/2002	<1,000	<100	910	<10	<10	12	<10	<10	
	3/11/2003	<5,000	<1,000	470	<25	<25	<25	<25	<25	· · · · · · · · · · · · · · · · · · ·
	6/17/2003	<2,000	<400	530	<10	<10	<10	<10	<10	
	9/18/2003	<500	<100	300	<2.5	<2.5	3.2	<2.5	<2.5	
	12/11/2003	<1,000	<200	180	<5.0	<5.0	<5.0	<5.0	<5.0	

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Fuel Additives Analytical Data

ARCO Service Station #4977 2770 Castro Valley Blvd., Castro Valley, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-3	03/11/2004	<200	570	110	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/02/2004	<100	130	43	< 0.50	<0.50	0.56	<0.50	<0.50	
	09/22/2004	<100	28	50	<0.50	<0.50	0.51	<0.50	<0.50	
· · · · · · · · · · · · · · · · · · ·	12/15/2004	<100	110	49	<0.50	0.52	0.61	<0.50	<0.50	а
· · · · · · · · · · · · · · · · · · ·	03/07/2005	<200	190	70	<1.0	<1.0	<1.0	<1.0	<1.0	· · · · · · · · · · · · · · · · · · ·
	06/27/2005	<100	130	33	<0.50	<0.50	<0.50	<0.50	<0.50	· · · · · · · · · · · · · · · · · · ·
	09/16/2005	<100	44	21	<0.50	<0.50	<0.50	< 0.50	<0.50	
	12/27/2005	<100	150	36	<0.50	<0.50	<0.50	<0.50	<0.50	b
	03/16/2006	<300	160	45	<0.50	<0.50	0.84	<0.50	<0.50	c

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Fuel Additives Analytical Data

ARCO Service Station #4977 2770 Castro Valley Blvd., Castro Valley, CA

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit 1,2-DCA = 1,2-Dichloroethane DIPE = Di-isopropyl ether EDB = 1,2-Dibromoethane ETBE = Ethyl tert-butyl ether MTBE = Methyl tert-butyl ether TAME = tert-Amyl methyl ether TBA = tert-Amyl methyl ether TBA = tert-Butyl alcohol µg/L = Micrograms per liter

FOOTNOTES:

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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.

b = Calibration verification for ethanol was within method limits but outside contract limits.

c = Possible high bias for DIPE, 1,2-DCA, and ethanol due to CCV falling outside acceptance criteria.

NUMBER OF STREET, ST

Groundwater Gradient Data

ARCO Service Station #4977 2770 Castro Valley Blvd., Castro Valley, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
4/19/2002	Southwest	0.038
9/27/2002	Southwest	0.021
12/16/2002	Southeast	0.029
3/11/2003	South	0.024
6/17/2003	South-Southwest	0.022
9/18/2003	South-Southwest	0.022
3/11/2004	South-Southwest	0.024
6/2/2004	South	0.025
9/22/2004	South	0.025
12/15/2004	South	0.020
3/7/2005	South	0.02
6/27/2005	South	0.01
9/16/2005	Southeast	0.03
12/27/2005	South-Southeast	0.02
3/16/2006	Southeast	0.02

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

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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 # 060316-WC2Date 03/16/06 Client URS@497 Site 2770 Castro Valley Blod., Castro Valley

Well ID	Well Size (in.)	Sheen / Odor		Thickness of Immiscible Liquid (ft.)		Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or 70 C	
Mw - 1	Ч					6.97 7.25 6.10	15.05	\langle	
mw.1 mv.2 mv.3	4			i		7.25	14.59		
mors	4					6.10	14.90		
				_					
		•							
			··				, ,	-	
		<u> </u>							
	<u>.</u>								
				······································	· ·				· · · · ·
						-			
				<u>-</u>					
					·		· · · ·		
				:					

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

·												
BTS #: Ĉ	060316	,-wc.	2	Station # 4977								
Sampler: (NC			Date: 03/16/06								
Well I.D.:	MW-	1		Well Diam			68					
Total Well	Depth:	15.0	5	Depth to Water: 6.97								
Depth to F				Thickness	of Free	Product (fee	/ t):					
Reference	d to:	PVG	Grade.	D.O. Meter			YSI 4	TACI				
	Well Diamete		Aultiplier y	Vell Diameter	Multipli	and the second		HACH				
)" 2*		0.04 0.16	4" (1)	0.65							
	3"		0.37	6" Other	1.47 radius ² * 0.	143						
Purge Metho	d•'	Bailer				·····	j					
, arge memor		sposable Bail		Sampling Me		Bailer	•					
		-				posable Bailer						
		e Air Displac		•		straction Port						
		te Submersi		C	Other:	<u></u>						
		straction Pum	p									
	Other:	· · · · · · · · · · · · · · · · · · ·	· ··									
Top of Scree	n:		If well is listed as	a no-nurge cor	afirm that	water level is h	-1					
•		······································	of screen. Otherw	ise the well m	unt he nur	water level is of	slow the top)				
1			of serven. Otherw	ise, the well ha	usi be purj	<u>zea.</u>						
	5.	3	x J		15.0	1		1				
	1 Case Volu	ime (Gals.)	Specified Vo		Calculate	Gals. d Volume		1				
<u>ا</u>	1			7								
	····· (0···)		Conductivity									
Time	Temp (°F)	pH	(mS or µS)	Gals. Remo	oved 0	bservations						
1524	64.3	7.0	1264	, 6	(rlear	,					
1524	lie	12	watere	el D		7 00	Ilan					
1553	Guz	7.1	1233			,00						
~ ~	<u>v</u> v/					lovery						
		• <u></u>				TWE8	.21					
	· · · · · · · · · · · · · · · · · · ·							······································				
Did well o	iewater?	Yes	No	Gallons ac	tually e	vacuated:	7	· • •				
Sampling	Time:	155	5	Sampling	Date:	03/16/	06					
Sample I.	D.: w	w = 1		Laborator	y: Pac	e Sequoia 7	Other	+				
Analyzed	for: o	RO BTEX M	ГВЕ DRO Oxy's 1,2-Е									
D.O. (if re	eq'd):		Pre-purge	:	^{mg} /L	Post-purge:	1.6	^{mg} /1				
O.R.P. (if		d.	Pré-purge		mV	Post-purge:		mV				
Blaine T	och Son	icos Inc	- 1680 Roger	A	<u> </u>	1 0	L	4 1 1 X				

ARCO / BP WELL MONITORING DATA SHEET

name rech services, inc. 1080 kogers Ave., San Jose, CA 95112 (408) 573-0555

BTS #: 0	60316	5-WC.	ン	Station # 4	977				•
Sampler: U				Date: 63/1	6/06				
Well I.D.:	pw.	7		Well Diamete	er: 2 3	Ø	6 8		
Total Well	Depth:	14.50	7	Depth to Wat	er:	7.2e	5		
Depth to Fi	ree Produc	ct:		Thickness of	Free Produ	ict (feet):		
Referenced	l to:	PVC 2	Grade	D.O. Meter (i	f rea'd):	v	'SI	HACH	
	Well Diamete	r N	<u>fultiplier</u> <u>V</u>	/ell Diameter	Multiplier	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	Cijaci	1
	1" 2"		0.04	4"	0.65				
	2"		0.16 0.37	6" Other	1.47				
D	L		0.57		dius ² * 0.163				
Purge Method		Bailer		Sampling Metho	d: Baile	r			
		sposable Bail	;		Disposable	Bailer			
		e Air Displac			Extractio	n Port			
		tricSubhersi		Othe	er:				
		traction Pum	-				4		
	Other:								
Top of Screen									
Top of Scieet	·	······	If well is listed as a	no-purge, confir	m that water l	evel is be	low the t	ор	
r	·····		of screen. Otherw	se, the well must	be purged.				
	4.9	5	~ ~		14				
	1 Case Volu	uma (Gala)	X	= <u>/</u>	1.9	Gals.			
L			Specified Vo	olumes (Calculated Volu	me			
			Conductivity						
Time	Temp (°F)	pH	(mS or 6 5)	Gals. Remove	d Observa	ations			
1540	64.8	7-0	78,8	5	Ca	$\sqrt{6}$	da	A	
1540	n e	1 de	weter	el Qa	- 6	gall			
VILI	ALI							1-	
101	641	6-	76		DIW:	= 4	>-7-	<u>6</u> , ,	ļ
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	00	lor/	sherry	\sqrt{cl}	ea
·			·		·				
Did well d	lewater? (Yes	No	Gallons actu	ally evacua	ated:	6	·	
Sampling	Time:	161	6	Sampling Da	ate: 03/	le le	6		
Sample I.I	D.: M	5-2		Laboratory:	Pace 8	equoia 7	5		
Analyzed	for: d	RO BTEX M	TBE DRO Oxy's 1,2-1	CA EDB Elhanol	> Other:		·/		
D.O. (if re	eq'd):		Pre-purge	:	^{ig} / _L Pos	Durge:	1_0	-1	^{mg} / ₁
O.R.P. (if	req'd):		Pre-purge	n		t-purge:	<u> </u>		mV
Riaino T	ech Serv	inon Ind	4600 Demo	1					¥ 111

ARCO / BP WELL MONITORING DATA SHEET

Same Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

BTS #: 🔊	60310	6-65	2	Station #	49	マフ		<u></u>	-		
Sampler: (*• .	Date: 03/16/06							
Well I.D.:	MW.	3		Well Diameter: 2 3 🙆 6 8							
Fotal Well	l Depth:	14.9	D	Depth to Water: 6.10							
Depth to F	ree Produ	et:		Thickness of Free Product (feet):							
Reference	d to:	PVC	Grade	D.O. Met	ter (if r	eq'd):		YSI	<pre>KHO</pre>	 Сн	
	Well Diamete			<u>Vell Diameter</u>		ltiplier		¥.;	<u></u>		
	t" 2"		0.04 0.16	4" 6"	0.0 1.4						
	3*		0.37	Other		+/ ¹ * 0.163					
Purge Metho	d:	Bailer		Sampling N	·····		ailer	. <u>.</u>	1		
		sposable Baile	r	omping t	actilou.		alle Bailer				
		e Air Displace		•			Stion Port				
		tric Submersi		3	Other						
		xtraction Pum		-		·······					
			-		2						
Ton of Saraa		-			, 						
Top of Scree	: 		If well is listed as	a no-purge, (confirm t	hat wat	er level is	below t	he top		
1			of screen. Otherw	use, the well	must be	purged.				-	
	5.7	•	x S	_	17.	. 1	Gals.				
	1 Case Volu	ume (Gals.)	Specified V	olumes	Calc	ulated V					
	l		Conductivity	1						<u> </u>	
Time	Temp (°F)	L I		Colo Do							
1 11116			(mS or μ S)	Gals. Re	noved	Opse	rvations	/ .	- A		
1532	64.4	7.0	4690	6		<u>)</u> e	rev /	shich	rod	2	
1533	64.5	7.1	879	12		۱	۲.	s n	•,		
1532	and l	dewot	ered a	0~12	- 6	allers	 				
1604	63.8	7.1	902			D	Tw=	-7.	93	\sim	
		5				CI.	ear/	34	ahte	seo	
Did well	dewater?	(Yes)	No	Gallons	actuall	y eva	cuated:	12			
Sampling	g Time:	160	96	Samplin	g Date	: 63	3/16	106			
Sample I	.D.: M	5-3	**************************************	Laborat		Pace	Sequoia	5			
Analyzed	l for: 🧹	GRO BTEX M	THE DRO Oxy's 1,2-	·····	anol	Other:		<u> </u>		NA 10 11 11	
D.O. (if r	req'd):		Pre-purg	e:	^{mg} /L	J	Post-purge		4	mg	
O.R.P. (i			Pre-purg		mV		Post-purg			m	
Diaima 7	Fach Son	vices In	c. 1680 Roge	re Ava	Son L			0 (40			

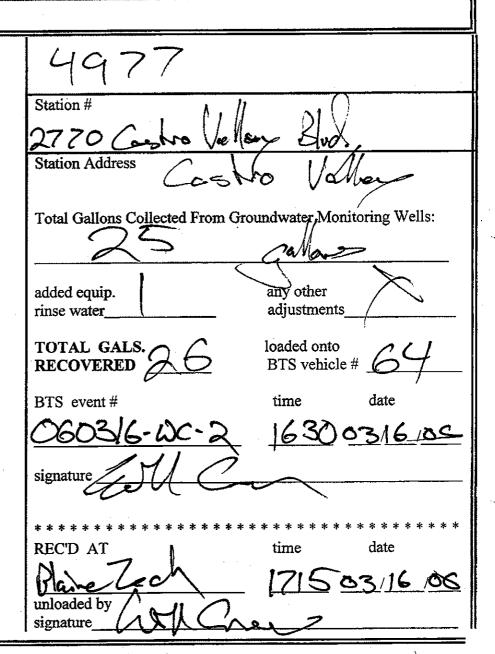
ARCO / BP WELL MONITORING DATA SHEET

BP GEM OIL COMPANY TYPE A BILL OF LADING

BILL OF LADING FOR NON-RECORD SOURCE PURGEWATER RECOVERED FROM HAZARDOUS 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 PLAINE 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 the contractor's 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:



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 RM have been reviewed and verified by that laboratory.



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

5 April, 2006

Barbara Jakub URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland, CA 94612

RE: ARCO #4977, Castro Valley, CA Work Order: MPC0765

Enclosed are the results of analyses for samples received by the laboratory on 03/17/06 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race Senior Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Page 1 of 7



TB-4977-03162006

03/17/06 18:00

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #49 Project Number:G0C2H-00 Project Manager:Barbara Jak	13	, CA	MPC0765 Reported: 04/05/06 09:53
Sample ID	ANALYTICAL REPORT FOR SAMP		Det Secold	Dete Dession
MW-1	Laboratory ID MPC0765-01	Matrix Water	Date Sampled 03/16/06 15:55	Date Received 03/17/06 18:00
MW-2	MPC0765-02	Water	03/16/06 16:16	03/17/06 18:00
MW-3	MPC0765-03	Water	03/16/06 16:06	03/17/06 18:00

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

MPC0765-04

Water

03/16/06 00:00

Sequoia Analytical - Morgan Hill



Di-isopropyl ether ND 0.50 " <th>URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612</th> <th></th> <th>Project N</th> <th>Project:AR(umber:G0C anager:Bart</th> <th>C2H-0013</th> <th></th> <th>alley, CA</th> <th></th> <th colspan="2">MPC0765 Reported: 04/05/06 09:53</th>	URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612		Project N	Project:AR(umber:G0C anager:Bart	C2H-0013		alley, CA		MPC0765 Reported: 04/05/06 09:53	
Analyze Result Result Limit Units Ditation Batch Prepared Analyzed Method MW-1 (MPC0765-01) Water Sampled: 03/16/06 15:55 Received: 03/17/06 18:00 ND 0.50 "	V	_		-	•		od 8260	В		
Analyte Result Limit Units Ditation Batch Prepared Analyzed Method MW-1 (MPC0765-01) Water Sampled: 03/16/06 15:55 Received: 03/17/06 18:00 Image: 000000000000000000000000000000000000	·	Sequ	ioia Ana	lytical -	• Morg	an Hill				
tert-Amyl methyl ether ND 0.50 ug/l 1 6C29018 03/30/06 EPA 8250/B Benzene 3.0 0.50 " <	Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Beneme 3.0 0.50 * <th< td=""><td>MW-1 (MPC0765-01) Water Sample</td><td>d: 03/16/06 15:55</td><td>Received:</td><td>03/17/06</td><td>18:00</td><td></td><td></td><td></td><td></td><td></td></th<>	MW-1 (MPC0765-01) Water Sample	d: 03/16/06 15:55	Received:	03/17/06	18:00					
Benene 3.0 0.50 * <th< td=""><td>tert-Amyl methyl ether</td><td>ND</td><td>0.50</td><td>ug/l</td><td>1</td><td>6C29018</td><td>03/29/06</td><td>03/30/06</td><td>EPA 8260B</td><td></td></th<>	tert-Amyl methyl ether	ND	0.50	ug/l	1	6C29018	03/29/06	03/30/06	EPA 8260B	
Di-isopropyl ether ND 0.50 " <td>Benzene</td> <td>3.0</td> <td>0.50</td> <td></td> <td>••</td> <td>۲</td> <td></td> <td>н</td> <td></td> <td></td>	Benzene	3.0	0.50		••	۲		н		
1,2-Dibromoethane (EDB) ND 0.50 "	tert-Butyl alcohol	ND	20	**	н	ŋ	n	п	**	
1,2-Dichloroethane ND 0.50 " <td>Di-isopropyl ether</td> <td>ND</td> <td>0.50</td> <td>**</td> <td>17</td> <td>11</td> <td>п</td> <td>11</td> <td>n</td> <td>PE</td>	Di-isopropyl ether	ND	0.50	**	17	11	п	11	n	PE
Ethanol ND 300 "	1,2-Dibromoethane (EDB)	ND	0.50	n	n	н	11	n		
Bitly Itert-butyl ether ND 0.50 "	1,2-Dichloroethane	ND	0.50		19	11	n	n	"	PE
Ethylbenzene 3.5 0.50 "	Ethanol	ND	300	11	**	11	11	11	n	PE
Methyl tert-butyl ether 3.4 0.50 " <th< td=""><td>Ethyl tert-butyl ether</td><td>ND</td><td>0.50</td><td>n</td><td>"</td><td>н</td><td>11</td><td>17</td><td>"</td><td></td></th<>	Ethyl tert-butyl ether	ND	0.50	n	"	н	11	17	"	
ND 0.50 " <td>Ethylbenzene</td> <td>3.5</td> <td>0.50</td> <td>"</td> <td>*</td> <td>н</td> <td>17</td> <td>n</td> <td>"</td> <td></td>	Ethylbenzene	3.5	0.50	"	*	н	17	n	"	
ND 0.50 " <td>Methyl tert-butyl ether</td> <td>3.4</td> <td>0.50</td> <td>*</td> <td>"</td> <td>н</td> <td>19</td> <td>n</td> <td>tt.</td> <td></td>	Methyl tert-butyl ether	3.4	0.50	*	"	н	19	n	tt.	
Gasoline Range Organics (C4-C12) 71 50 "	Toluene	ND	0.50	"		"	**	"	11	
Surrogate: 1,2-Dichloroethane-d4 111 % 80-135 " </td <td>Xylenes (total)</td> <td>ND</td> <td>0.50</td> <td>"</td> <td>*</td> <td>"</td> <td>"</td> <td>19</td> <td>IL</td> <td></td>	Xylenes (total)	ND	0.50	"	*	"	"	19	IL	
Surrogate: Toluene-d8 91 % 70-130 " <t< td=""><td>Gasoline Range Organics (C4-C12)</td><td>71</td><td>50</td><td>u</td><td>н</td><td>11</td><td>*</td><td>"</td><td>IT</td><td></td></t<>	Gasoline Range Organics (C4-C12)	71	50	u	н	11	*	"	IT	
Surrogate: Toluene-d8 91 % 70-130 """"""""""""""""""""""""""""""""""""	Surrogate: 1,2-Dichloroethane-d4		111 %	80-1	35	"	#	"	"	
Surrogate: Dibromofluoromethane 104 % 85-130 " <td>-</td> <td></td> <td>91%</td> <td></td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	-		91%			"	"	"	"	
Surrogate: 4-Bromofluorobenzene 89 % 60-115 "	-					"	"	"	n [`]	
MW-2 (MPC0765-02) Water Sampled: 03/16/06 16:16 Received: 03/17/06 18:00 tert-Amyl methyl ether ND 50 ug/l 100 6C29018 03/29/06 03/30/06 EPA 8260B Benzene 710 50 """"""""""""""""""""""""""""""""""""	-					"		"	"	
ND 50 ug/l 100 6C29018 03/29/06 03/30/06 EPA 8260B Benzene 710 50 """"""""""""""""""""""""""""""""""""										
Benzene 710 50 """"""""""""""""""""""""""""""""""""	MW-2 (MPC0765-02) Water Sample	d: 03/16/06 16:16	Received:		18:00					
Interference ND 2000 """"""""""""""""""""""""""""""""""""									EPA 8260B	
Di-isopropyl ether ND 50 " <th"< th=""> " "</th"<>									"	
1,2-Dibromoethane (EDB) ND 50 "<	-								11	
I.2-Dichloroethane ND 50 "									34	PE
Ethanol ND 30000 """"""""""""""""""""""""""""""""""""									**	
Ethyl tert-butyl ether ND 50 " </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> <td>PE</td>									"	PE
Ethylbenzene 1400 50 """"""""""""""""""""""""""""""""""""									**	PE
Methyl tert-butyl ether 78 50 " <td></td> <td></td> <td></td> <td></td> <td>"</td> <td></td> <td></td> <td></td> <td>r•</td> <td></td>					"				r•	
ND 50 "	•			"	"	"		"	n	
Xylenes (total) 2600 50 "					"	4		n	PT	
Gasoline Range Organics (C4-C12) 29000 5000 "					"	n 	"		"	
Surrogate: 1,2-Dichloroethane-d4 114 % 80-135 " </td <td></td>										
Surrogate: Toluene-d8 99 % 70-130 " <th"< th=""> " " <th"<< td=""><td></td><td>27000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th"<<></th"<>		27000								
Surrogate: Dibromofluoromethane 102 % 85-130 " " " "						"	"	"		
- ·	5					n	"	"		
Surrogate: 4-Bromofluorobenzene 96 % 60-115 " " " "						n	**	"	n	
	Surrogate: 4-Bromofluorobenzene		96 %	60-1	15	"	"	"	"	



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #4977, Castro Valley, CA Project Number:G0C2H-0013 Project Manager:Barbara Jakub							MPC0765 Reported: 04/05/06 09:53	
	Volatile Organ	nic Comj	pounds t	y EP.	A Metho	od 8260	B	2	
	Sequ	ioia Ana	lytical -	Morg	an Hill				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MPC0765-03) Water S	Sampled: 03/16/06 16:06	Received:	03/17/06 1	8:00					
tert-Amyl methyl ether	0.84	0.50	ug/l	1	6C29018	03/29/06	03/30/06	EPA 8260B	
Benzene	11	0.50	**	"	н	11	H	11	
tert-Butyl alcohol	160	20	u	н	11	17		17	
Di-isopropyl ether	ND	0.50	II .	17	"	18	ĸ	19	PE
1,2-Dibromoethane (EDB)	ND	0.50	*	ŧr	и		н	16	
1,2-Dichloroethane	ND	0.50	u	H.	n	**	н	n	PE
Ethanol	ND	300		**	"	"	u	11	PE
Ethyl tert-butyl ether	ND	0.50	н	н		ч	н	н	
Ethylbenzene	59	0.50	"	"	n	н	11	н	
Methyl tert-butyl ether	45	0.50	**	"	*	н	n	н	
Toluene	ND	0.50	**	11	11	υ	"	п	
Xylenes (total)	6.4	0.50		*	и	11	"	11	
Gasoline Range Organics (C4-C	12) 1600	50	"	*	17	"	n	11	
Surrogate: 1,2-Dichloroethane-d4	!	123 %	80-13	5	11	"	#	"	
Surrogate: Toluene-d8		97 %	70-13	0	"	**	"	"	
Surrogate: Dibromofluoromethan	е	90 %	85-13	0	"	"	H	л	
Surrogate: 4-Bromofluorobenzene		103 %	60-11		"	"	"	"	



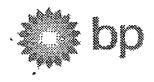
URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612		Project N	umber:G0	CO #4977 C2H-0013 rbara Jakut		alley, CA			Rep	C0765 prted:)6 09:53
Volatile O	rganic Comj Sea	oounds b uoia Ana				- Qual	ity Con	trol		
	1	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6C29018 - EPA 5030B P/T /	EPA 8260B									
Blank (6C29018-BLK1)		-		Prepared	& Analyz	ed: 03/29/	06			
tert-Amyl methyl ether	ND	0.50	ug/l					••		
Benzene	ND	0.50	n							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							PI
1,2-Dibromoethane (EDB)	ND	0.50	**							
1,2-Dichloroethane	ND	0.50	"							PH
Ethanol	ND	300	"							PE
Ethyl tert-butyl ether	ND	0.50	11							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	11							
Toluene	ND	0.50	н							
Xylenes (total)	ND	0.50	. 11							
Gasoline Range Organics (C4-C12)	ND	50	11							
Surrogate: 1,2-Dichloroethane-d4	5.29		"	5.00		106	80-135			
Surrogate: Toluene-d8	5.16		п	5.00		103	70-130			
Surrogate: Dibromofluoromethane	5.17		"	5.00		103	85-130			
Surrogate: 4-Bromofluorobenzene	4.73		"	5.00		95	60-115			
Laboratory Control Sample (6C29018-	BS1)			Prepared a	& Analyze	ed: 03/29/	06			
tert-Amyl methyl ether	15.0	0.50	ug/l	16.3		92	65-135			
Benzene	5.23	0.50		5.04		104	70-125			
tert-Butyl alcohol	171	20	u	169		101	60-135			
Di-isopropyl ether	17.3	0.50	н	16.2		107	70-130			PE
1,2-Dibromoethane (EDB)	16.8	0.50		16.6		101	85-125			
1,2-Dichloroethane	17.1	0.50	н	15.5		110	75-125			PE
Ethanol	191	300	11	165		116	15-150			PE
Ethyl tert-butyl ether	16.9	0.50	"	16.4		103	65-130			
Ethylbenzene	7.14	0.50	**	7.28		98	80-130			
Methyl tert-butyl ether	7.35	0.50	**	7.84		94	50-140			
Toluene	35.9	0.50	**	38.0		94	70-120			
Xylenes (total)	41.8	0.50	1r	40.8		102	85-125			
Gasoline Range Organics (C4-C12)	443	50	u	440		101	75-140			
Surrogate: 1,2-Dichloroethane-d4	5.37		"	5.00		107	80-135			
Surrogate: Toluene-d8	5.12		"	5.00		102	70-130			
Surrogate: Dibromofluoromethane	4.81		"	5.00		96	85-130			
Surrogate: 4-Bromofluorobenzene	4.65		"	5.00		93	60-115			



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612		Project N	umber:GO	RCO #4977 C2H-0013 rbara Jakuł	•	alley, CA			Repo	0765 orted:)6 09:53
Volatile Or	ganic Comp Seq	ounds b uoia Ana	-			- Qual	ity Con	trol		
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6C29018 - EPA 5030B P/T / E	PA 8260B									
Matrix Spike (6C29018-MS1)	Source: MI	PC0764-01		Prepared:	03/29/06	Analyzed	l: 03/30/06			
ert-Amyl methyl ether	14.4	0.50	ug/I	16.3	ND	88	65-135			nx
Benzene	5.20	0.50	"	5.04	ND	103	70-125			
ert-Butyl alcohol	162	20	н	169	ND	96	60-135			
Di-isopropyl ether	16.6	0.50	'n	16.2	ND	102	70-130			P
1,2-Dibromoethane (EDB)	16.5	0.50	н	16.6	ND	99	85-125			
1,2-Dichloroethane	15.8	0.50	11	15.5	ND	102	75-125			Р
Ethanol	202	300	n	165	ND	122	15-150			Р
Ethyl tert-butyl ether	16.0	0.50	11 -	16.4	ND	98	65-130			
Ethylbenzene	7.15	0.50	"	7.28	ND	98	80-130			
Methyl tert-butyl ether	7.18	0.50	"	7.84	ND	92	50-140			
Foluene	34.6	0.50	"	38.0	ND	91	70-120			
Xylenes (total)	40.5	0.50		40.8	ND	99	85-125			
Gasoline Range Organics (C4-C12)	378	50	н	440	ND	86	75-140			
Surrogate: 1,2-Dichloroethane-d4	4.60		"	5.00		92	80-135			
Surrogate: Toluene-d8	5.06		n	5.00		101	70-130			
Surrogate: Dibromofluoromethane	4.65		"	5.00		93	85-130			
Surrogate: 4-Bromofluorobenzene	4.73		"	5.00		95	60-115			
Matrix Spike Dup (6C29018-MSD1)	Source: MF	C0764-01		Prepared:	03/29/06	Analyzed	: 03/30/06			
ert-Amyl methyl ether	14.8	0.50	ug/l	16.3	ND	91	65-135	3	25	
Benzene	5.42	0.50		5.04	ND	108	70-125	4	15	
ert-Butyl alcohol	155	20	*7	169	ND	92	60-135	4	35	
Di-isopropyl ether	16.1	0.50	u	16.2	ND	99	70-130	3	35	P
,2-Dibromoethane (EDB)	16.5	0.50	"	16.6	ND	99	85-125	0	15	
,2-Dichloroethane	16.0	0.50	11	15.5	ND	103	75-125	1	10	P
Ethanol	202	300	n	165	ND	122	15-150	0	35	P
Ethyl tert-butyl ether	14.8	0.50	н	16.4	ND	90	65-130	8	35	
Ethylbenzene	7.22	0.50		7.28	ND	99	80-130	1	15	
Viethyl tert-butyl ether	6.69	0.50	11	7.84	ND	85	50-140	7	25	
foluene	33.5	0.50	tr	38.0	ND	88	70-120	3	15	
Kylenes (total)	41.4	0.50		40.8	ND	101	85-125	2	15	
Gasoline Range Organics (C4-C12)	379	50		440	ND	86	75-140	0.3	20	
Surrogate: 1,2-Dichloroethane-d4	4.52		"	5.00		90	80-135			
Surrogate: Toluene-d8	4.73		"	5.00		<i>95</i>	70-130			
Surrogate: Dibromofluoromethane	4.45		"	5.00		89	85-130			
Surrogate: 4-Bromofluorobenzene	4.68		п	5.00		94	60-115			



1333 Bro	poration [Arco] adway, Suite 800 CA, 94612	Project:ARCO #4977, Castro Valley, CA Project Number:G0C2H-0013 Project Manager:Barbara Jakub	MPC0765 Reported: 04/05/06 09:53
		Notes and Definitions	
PE	Possible high bias due to CCV fall	ing outside acceptance criteria	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above	the reporting limit or MDL, if MDL is specified	
NR	Not Reported		
dry	Sample results reported on a dry weigh	t basis	
RPD	Relative Percent Difference		



Chain of Custody Record

Requested Due Date (mm/dd/yy):

BP > Americas > West Coast > Retail > WCBU >

10 Day TAT

CA > Central > 4977 > HistoricalBL California Regional Water Quality Control Board - San Fra

 Project Name:
 Analytical for QMR sampling

 BP BU/AR Region/Enfos Segment:
 BP >/

State or Lead Regulatory Agency:

On-site Time:	1445	Temp:	
Off-site Time:	1645	Temp:	
Sky Conditions:	ner rast		
Meteorological E	vents: Nainy	1-Dlight	
Wind Speed: 5		Direction:	

Page ____ of/___

Lab Name: Sequoia	BF/AK Facility Hon 4977	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 2770 Castro Valley Blvd., Castro Valley, CA	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.694794 / -122.084	Oakland, CA 94612
Lab PM: Lisa Race / Katt Min	California Global ID No.: T0600100089	Consultant/Contractor Project No.: 38487536
Tele/Fax: 408.782.8156 / 408.782.6308	En fos Project No.: G0C2H-0013	Consultant/Contractor PM: Barb Jakub
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.3296 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Donna_Cosper@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company
Lab Bottle Order No: 4977 Matrix	Preservative Requ	lested Analysis
Item No. Soul/Solid Air		Sample Point Lat/Long and Comments
1 MW-1 1555 314/06 N		
	W I N XXXX	
	by de XXXX	
3 mu-3 (406)		on held
4 TB-4977-0362000 - V V	64 2	- Christer
5		
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7	<u>╢</u> ────────────────────────────────────	
8		
9		
	Relinquished By / Affiliation Date Time	Accepted By / Affiliation Date Time
Sampler's Name: N.T. Crow Sampler's Company: Blaine Tech	Clevel Green By Annaton By 16/06 1740	(Surple Cushan) Philob 1742
	Stall Curopped Hope 1658	3/17/08 1450
Shipment Date:	3-17-5 1/20	11-50 3/12/64 185
Shipment Method:	Prove 001000 1100100	
Shipment Tracking No:		
Special Instructions:		
,	ank Yes VNO Cooler Temperature on Rece	ipt 42 C Trip Blank Yes No
Custody Seals In Place Yes <u>P</u> No Temp Bla	ank Yes No Cooler Temperature on Rece	BP COC Rev. 4 10/1/04

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

		SEQUO	A AN	IALYTICAL SAM	PLE RECE	EIPT LO	G			and a star
CLIENT NAME: _ REC. BY (PRINT) _ WORKORDER: _	URS EB MPCBHG	5		DATE REC'D AT LAB TIME REC'D AT LAB: DATE LOGGED IN:	150				-	tory Purposes? WATER YES / 100 ATER YES / 100
CIRCLE THE APPRO	PRIATE RESPONSE	LAB SAMPLE#	DASH #	· CLIENT ID	CONTAINER DESCRIPTION	PRESERV ATIVE	рН	Samplæ Matrix	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*				· · · · · · · · · · · · · · · · · · ·					
2, Chain-of-Custody.	Present / Absent*				· ··-					/
3. Traffic Reports or		. 		•						
Packing List:	Present / Absent)				· ·					
4. Airbill:	Airbill / Sticker Present / Alsent			- 						
5. Airbill #:				·· .			Ń	p/		
6. Sample Labels:	Present) Absent					1				
7. Sample IDs:	Listedy Not Listed					18				
	on-Chain-of-Custody				· · · ·	3/				
8. Sample Condition:	Intact 7 Broken* /		<u>.</u>	1	, bU	1				
	Lèaking*									
9. Does information on	•									
traffic reports and sa		· · · · · · · · · · · · · · · · · · ·		<u></u>	J					
agree?	Yes No*					· ·				
10. Sample received within			<u>·</u> _							·
hold time?	Yes/No*				· · ·					······
11. Adequate sample volu	me Ves) No*							·····		
received?		ļ		/						
12. Proper preservatives u		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			· .	
13. Trip Blank / Temp Blar										
(circle which, if yes)	Hes/No*	· · · · ·	<u> </u>	<u> </u>						
14. Read Temp:	42.0	<u>├</u> /								
Corrected Temp:		<u>├/-</u>								
Is corrected temp 4 +/		<u>├</u>	 							
(Acceptance range for samples r					······································					
**Exception (if any): MET	ALS / DEE UNICE					·····	V.	·		
or Problem COC	AN THE REPORT OF THE PARTY OF			CONTACT PROJECT N			BECOP		OLUTION	
		THE CIRC	LED, C			ALLAVIT.				•

SRL Revision 7 Replaces Rev 5 (07/13/04)

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ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

	Ibmittal Information Facilities Upload EDD Check EDD	
SUCCESSFUL EDF CHECK -	NO ERRORS	
ORGANIZATION NAME: USER NAME:	URS Corporation-Oak Office URSCORP-OAKLANI	
DATE CHECKED: GLOBAL ID:	4/12/2006 3:46:47 PM T0600100089	
FILE UPLOADED:	ARCO#4977-EDF- MPC0765.zip	
No errors were found in you	r EDF upload file.	
	file to the SWRCB, choose the e above menu and follow the	5
When you complete the sub confirmation number for you	mittal process, you will be given a r submittal.	
Click <u>here</u> to view the	detections report for this upload	l.
ARCO 2770 CASTRO VALLEY BLVD CASTRO VALLEY, CA 94546	Regional Board - Case #: 01-0097 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case 0097 ALAMEDA COUNTY LOP - (RWS	
SAMPLE DETECTIONS REP # FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTION # FIELD POINTS WITH WATER SAM SAMPLE MATRIX TYPES	NS MPLE DETECTIONS ABOVE MCL	3 3 2 WATER
METHOD QA/QC REPOR METHODS USED	—	3260FA
TESTED FOR REQUIRED ANALYTES LAB NOTE DATA QUALIFIERS	5?	Y Y
QA/QC FOR 8021/8260 TECHNICAL HOLDING TIME VIOLA		0
METHOD HOLDING TIME VIOLATIC LAB BLANK DETECTIONS ABOVE R LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 8021,		0 0 0 ?
- LAB METHOD BLANK - MATRIX SPIKE - MATRIX SPIKE DUPLICATE - BLANK SPIKE - SUPPOCATE SPIKE		Y Y Y Y
- SURROGATE SPIKE WATER SAMPLES FOR 802	1/8260 SERIES JPLICATE(S) % RECOVERY BETWEEN 65-	Y
MATRIX SPIKE / MATRIX SPIKE DU 135% MATRIX SPIKE / MATRIX SPIKE DU		Y Y

SURROGATE SPIKES % F			N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%			
SOIL SAMPLES FOR	8 8021/8260 SERIES		
	SPIKE DUPLICATE(S) % REC	OVERY BETWEEN 65-	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%			n/a
MATRIX SPIKE / MATRIX	SPINE DUPLICATE(S) RPD L	COO 111/11 00 /0	ny a
	ECOVERY BETWEEN 70-125		n/a
SURROGATE SPIKES % F		%	•
SURROGATE SPIKES % F BLANK SPIKE / BLANK SPI	RECOVERY BETWEEN 70-125 PIKE DUPLICATES % RECOVE	%	n/a
SURROGATE SPIKES % F BLANK SPIKE / BLANK SI 130%	RECOVERY BETWEEN 70-125 PIKE DUPLICATES % RECOVE	%	n/a n/a
SURROGATE SPIKES % F BLANK SPIKE / BLANK SP 130% FIELD QC SAMPLES	RECOVERY BETWEEN 70-125 PIKE DUPLICATES % RECOVE	% ERY BETWEEN 70-	n/a n/a
SURROGATE SPIKES % F BLANK SPIKE / BLANK SPI 130% FIELD QC SAMPLES SAMPLE	RECOVERY BETWEEN 70-125 PIKE DUPLICATES % RECOVE COLLECTED	% ERY BETWEEN 70-	n/a n/a

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

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ζ	our EDF file	e has been s	successf	ully uploaded	!!
Confirn	nation Numb	er: 59069	60308		
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	cility Global				
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		-			
Click	to view	the detecti	ions rep	ort for this up	load.
ARCO 2770 CASTRO VAL CASTRO VALLEY,		SAN FRAN Local Age	NCISCO I ncy (lead	<u>ase #: 01-0097</u> BAY RWQCB (agency) - Case FY LOP - (RWS	
CONF #	TITLE				QUARTER
5906960308 SUBMITTED BY	1Q 2006 QM				Q1 2006
Srijesh Thapa	<u>306001</u> 4/12/2	<u>t date</u> 2006		NDING REVIE	W
SAMPLE DETECT		<u>RT</u>			
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE	IPLED 'H DETECTIONS 'H WATER SAMPL ES		NS ABOVE	MCL	3 3 2 WATER
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYP METHOD QA/Q METHODS USED	IPLED H DETECTIONS H WATER SAMPL ES C REPORT		NS ABOVE	MCL	3 2
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q	IPLED H DETECTIONS H WATER SAMPL ES C REPORT ED ANALYTES?		NS ABOVE	MCL	3 2 WATER
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYP METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA	IPLED H DETECTIONS H WATER SAMPL ES C REPORT ED ANALYTES? LIFIERS	E DETECTION			3 2 WATER 8260FA Y
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# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING TO METHOD HOLDING TO	IPLED H DETECTIONS H WATER SAMPL ES C REPORT ED ANALYTES? LIFIERS 21/8260 S S TIME VIOLATIO IME VIOLATIONS	E DETECTION	MPLES		3 2 WATER 8260FA Y Y
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# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING METHOD HOLDING TI LAB BLANK DETECTION	IPLED H DETECTIONS H WATER SAMPLES C REPORT ED ANALYTES? LIFIERS 21/8260 S TIME VIOLATIONS DNS ABOVE REPO DNS TH THE 8021/820	E DETECTION ERIES SA DNS CRTING DETE	MPLES		3 2 WATER 8260FA Y Y 0 0 0
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING T LAB BLANK DETECTION LAB BLANK DETECTION DO ALL BATCHES WI - LAB METHOD BLAN - MATRIX SPIKE - MATRIX SPIKE DU	IPLED H DETECTIONS H WATER SAMPLES CREPORT ED ANALYTES? LIFIERS 21/8260 SI TIME VIOLATIONS DNS ABOVE REPO DNS TH THE 8021/820 NK	E DETECTION ERIES SA DNS CRTING DETE	MPLES		3 2 WATER 8260FA Y Y Y Y Y V V V Y Y
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA CACHNICAL HOLDING T LAB BLANK DETECTION LAB BLANK DETECTION DO ALL BATCHES WI - LAB METHOD BLAI - MATRIX SPIKE	IPLED H DETECTIONS H WATER SAMPLES CREPORT ED ANALYTES? LIFIERS 21/8260 SI TIME VIOLATIONS DNS ABOVE REPO DNS TH THE 8021/820 NK PLICATE	E DETECTION ERIES SA DNS CRTING DETE	MPLES		3 2 WATER 8260FA Y Y 0 0 0 0 0 0 7 Y Y
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYPE METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING T LAB BLANK DETECTIO LAB BLANK DETECTIO DO ALL BATCHES WI - LAB METHOD BLAI - MATRIX SPIKE MATRIX SPIKE SURROGATE SPIKI	IPLED H DETECTIONS H WATER SAMPLES CREPORT ED ANALYTES? LIFIERS 21/8260 SI TIME VIOLATIONS DNS ABOVE REPO DNS TH THE 8021/820 NK PLICATE E S FOR 8021/8	E DETECTION	MPLES CTION LIN ICLUDE TH	1IT E FOLLOWING?	3 2 WATER 8260FA Y Y Y Y Y Y Y Y Y
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYP METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING T LAB BLANK DETECTIO DO ALL BATCHES WI - LAB METHOD BLAI - MATRIX SPIKE MATRIX SPIKE SURROGATE SPIKE MATRIX SPIKE / MAT	IPLED H DETECTIONS H WATER SAMPLES C REPORT ED ANALYTES? LIFIERS 221/8260 SI S TIME VIOLATIONS ONS ABOVE REPO ONS TH THE 8021/820 NK PLICATE E S FOR 8021/8 RIX SPIKE DUPLI	E DETECTION	MPLES	1IT E FOLLOWING? BETWEEN 65-13	3 2 WATER 8260FA Y Y 0 0 0 0 0 0 0 0 0 0 7 Y Y 7 Y 5% Y
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYP METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING T LAB BLANK DETECTIO DO ALL BATCHES WI - LAB METHOD BLAI - MATRIX SPIKE - MATRIX SPIKE - SURROGATE SPIKE MATRIX SPIKE / MAT MATRIX SPIKE / MAT MATRIX SPIKE / MAT	IPLED H DETECTIONS H WATER SAMPLES C REPORT ED ANALYTES? LIFIERS 21/8260 SI 5 TIME VIOLATION S TIME VIOLATIONS ONS ABOVE REPONNS TH THE 8021/820 NK PLICATE E S FOR 8021/8 RIX SPIKE DUPLI % RECOVERY BE	E DETECTION ERIES SA DNS CRTING DETE 60 SERIES IN CATE(S) % R ICATE(S) % R ICATE(S) RPD TWEEN 85-1:	MPLES CTION LIM ICLUDE TH ICLUDE TH ICLUDE TH ICLUDE TH ISS TH	IIT E FOLLOWING? BETWEEN 65-13 N 30%	3 2 WATER 8260FA Y Y Y Y Y Y Y Y Y
# FIELD POINTS SAM # FIELD POINTS WIT # FIELD POINTS WIT SAMPLE MATRIX TYP METHOD QA/Q METHODS USED TESTED FOR REQUIR LAB NOTE DATA QUA QA/QC FOR 80 TECHNICAL HOLDING T LAB BLANK DETECTIO DO ALL BATCHES WI - LAB METHOD BLAI - MATRIX SPIKE - MATRIX SPIKE - SURROGATE SPIKI WATER SAMPLE MATRIX SPIKE / MAT MATRIX SPIKE / MAT	IPLED H DETECTIONS H WATER SAMPLES C REPORT ED ANALYTES? LIFIERS 21/8260 SI 5 TIME VIOLATION S TIME VIOLATIONS ONS ABOVE REPONNS TH THE 8021/820 NK PLICATE E S FOR 8021/8 RIX SPIKE DUPLI % RECOVERY BE	E DETECTION ERIES SA DNS CRTING DETE 60 SERIES IN CATE(S) % R ICATE(S) % R ICATE(S) RPD TWEEN 85-1:	MPLES CTION LIM ICLUDE TH ICLUDE TH ICLUDE TH ICLUDE TH ISS TH	IIT E FOLLOWING? BETWEEN 65-13 N 30%	3 2 WATER 8260FA Y Y 0 0 0 0 0 0 0 0 0 7 Y Y 5% Y
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BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%				
FIELD QC SAMPLES				
SAMPLE	COLLECTED	DETECTIONS > REPDL		
QCTB SAMPLES	Ν	0		
QCEB SAMPLES	N	0		
QCAB SAMPLES	N	0		

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