Atlantic Richfield Company

Chuck Carmel Remediation Management Project Manager

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3803 Fax: (925) 275-3815 E-Mail: charles.carmel@bp.com

RECEIVED

11:52 am, May 02, 2011 Alameda County

Environmental Health

April 29, 2011

Re: First Quarter 2011 Monitoring Report Atlantic Richfield Company Station #2112 1260 Park Street, Alameda, California ACEH Case #RO0000044

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,

[m]

Chuck Carmel Remediation Management Project Manager

Attachment:





April 29, 2011

Project No. 06-88-616

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re: First Quarter 2011 Monitoring Report, Atlantic Richfield Company Station #2112, 1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Mr. Carmel:

Attached is the First Quarter 2011 Monitoring Report for the Atlantic Richfield Company Station #2112 located at 1260 Park Street, Alameda, California. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact me at 530-566-1400.

Sincerely, BROADBENT & ASSOCIATES, INC.

. a.V

Thomas A. Venus, PE Senior Engineer

Enclosures



cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site) Electronic copy uploaded to GeoTracker

FIRST QUARTER 2011 MONITORING REPORT ARCO STATION #2112, ALAMEDA, CALIFORNIA

Broadbent & Associates, Inc. (BAI) is pleased to present this *First Quarter 2011 Monitoring Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for ARCO Station #2112 located in Alameda, Alameda County, California. Quarterly reporting is being submitted to the Alameda County Environmental Health Services Agency (ACEH) consistent with their requirements under the legal authority of the California Regional Water Quality Control Board, as codified by the California Code of Regulations Title 23, Section 2652(d). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	ARCO Station #2112 / 1260 Park Street, Alameda
Client Project Manager / Title:	Mr. Chuck Carmel / Remediation Management Project Manager
BAI Contact:	Mr. Tom Venus, PE / (530) 566-1400
BAI Project No.:	06-88-616
Primary Regulatory Agency / ID No.:	ACEH, Case #RO0000044
Current phase of project:	Monitoring
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

WORK PERFORMED THIS QUARTER (First Quarter 2011):

- 1. Submitted Fourth Quarter 2010 Status Report (BAI, 1/5/2011).
- 2. Conducted groundwater monitoring/sampling for First Quarter 2011 on February 8, 2011.

WORK SCHEDULED FOR NEXT QUARTER (Second Quarter 2011):

- 1. Submit First Quarter 2011 Monitoring Report (contained herein).
- 2. No other environmental field work is presently scheduled at Station #2112 during Second Quarter 2011.
- 3. Submit Case Closure Request.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	A-1 through A-5, AR-1, AR-2	(Q1 & Q3)
Groundwater sample collection:	A-1 through A-5, AR-1, AR-2	(Q1 & Q3)
Biodegradation indicator parameter		
monitoring:	A-1 through A-5, AR-1, AR-2	(Q1 & Q3)

QUARTERLY RESULTS SUMMARY:

LNAPL		
LNAPL observed this quarter:	None	(yes\no)
LNAPL recovered this quarter:	None	(gal)
Cumulative LNAPL recovered:	N/A	(gal)
Groundwater Elevation and Grad	ient:	
Depth to groundwater:	7.38 (A-3) to 10.11 (A-1)	(ft below TOC)
Gradient direction:	Northwest	(compass direction)
Gradient magnitude:	0.014	(ft/ft)
Average change in elevation:	+0.92	(ft since last measurement)
Laboratory Analytical Data		
Summary:		laboratory reporting limit of 0.50 nd A-2 at 0.96 μ g/L. The rest of the

petroleum hydrocarbon analytes were not detected above the laboratory reporting limits in the well samples collected.

ACTIVITIES CONDUCTED & RESULTS:

First Quarter 2011 groundwater monitoring was conducted on February 8, 2011 by BAI personnel in accordance with the monitoring plan summary detailed above. No other irregularities were noted during water level gauging. Light, Non-Aqueous Phase Liquid (LNAPL, or free product) was not noted to be present in the wells monitored during this event. Depth to water measurements ranged from 7.38 ft at A-3 to 10.11 ft at A-1. Resulting groundwater surface elevations ranged from 22.82 ft at A-3 to 19.49 ft at A-5. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the northwest at approximately 0.014 ft/ft. Field methods used during groundwater monitoring are provided in Appendix A. Field data sheets are included in Appendix B. A Site Location Map is presented as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Groundwater samples were collected on February 8, 2011 consistent with the current monitoring schedule. No irregularities were reported during sampling, with the exception of that well A-3 could not be purged like the rest due blockage within the well. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California) for analysis of Gasoline-Range Organics (GRO, C6-C12) by EPA Method 8015M; for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), Tert-Amyl Methyl Ether (TAME), Di-Isopropyl Ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Tert-Butyl Alcohol (TBA) and Ethanol by EPA Method 8260. No significant irregularities were encountered during analysis of the samples. The laboratory analytical report, including chain-of-custody documentation, is provided in Appendix C.

The chemical 1,2-DCA was detected above the laboratory reporting limit in two wells sampled at concentrations of 1.2 micrograms per liter (μ g/L, parts per billion, ppb) in well AR-1, and 0.96 μ g/L in well A-2. The remaining analytes were not detected above their laboratory reporting limits in the wells sampled this last monitoring event. Groundwater monitoring laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix D.

DISCUSSION:

New historic maximum groundwater elevations were established in each of the wells gauged this event. Significantly above-average precipitation for the winter is a possible reason for the high groundwater levels. Groundwater elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the northwest at approximately 0.014 ft/ft, generally consistent with the historic flow direction and gradient data, the most recent presented in Table 3.

This event's mostly non-detect analytical concentrations were similar to the results of the last several monitoring rounds. The concentrations of 1,2-DCA detected in samples from wells A-2 and AR-1 were similar to those recorded in last several sampling rounds. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2.

In their letter dated September 3, 2009 the ACEH stated that soil sample analytical results indicated that the Site might still pose a risk to human health, specifically potential contaminant volatilization to indoor air. This position was based on interpretation of results within the *On-Site Soil Investigation Report* (BAI, 8/10/2009) in which GRO and Benzene were detected at concentrations of 2,000 milligrams per kilogram (mg/kg) and 0.23 mg/kg, respectively from a depth of 11 ft in boring B-8, on the southwest side of the station building. Like the majority of soil samples collected from borings on the southeast side of the station building that did not detect or detected low concentrations of hydrocarbons, soil samples collected in boring B-8 at 5 ft and 8 ft detected no GRO or Benzene above the laboratory reporting limits. Based on the

September 3, 2009 ACEH request, BAI had originally proposed to install and sample new soil gas monitoring implants at the Site for the purposes of conducting a vapor intrusion assessment. However, guidance available now suggests that there is no need to assess the vapor intrusion pathway with low concentrations of dissolved petroleum hydrocarbons in groundwater (i.e. Benzene less than 1 mg/L and GRO less than 10 mg/L) and greater than five feet separation between a contaminant source and building. According to California State Water Resources Control Board draft guidance, there have been no published examples of petroleum vapor intrusion for this site condition and that modeling studies indicate bioattenuation will limit the potential for vapor intrusion. During the last several rounds of monitoring at Station #2112, groundwater samples from wells across the Site have tested negative for petroleum hydrocarbon contaminants.

RECOMMENDATIONS:

There is no environmental field work presently scheduled in the Second Quarter 2011 until the results of VIA sampling at ARCO Station #2035 in Albany are available. Furthermore, in lieu of the previously proposed Vapor Intrusion Assessment, BAI proposing submittal of a case closure request report for consideration by the ACEH.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California), and our understanding of ACEH requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of the Atlantic Richfield Company. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

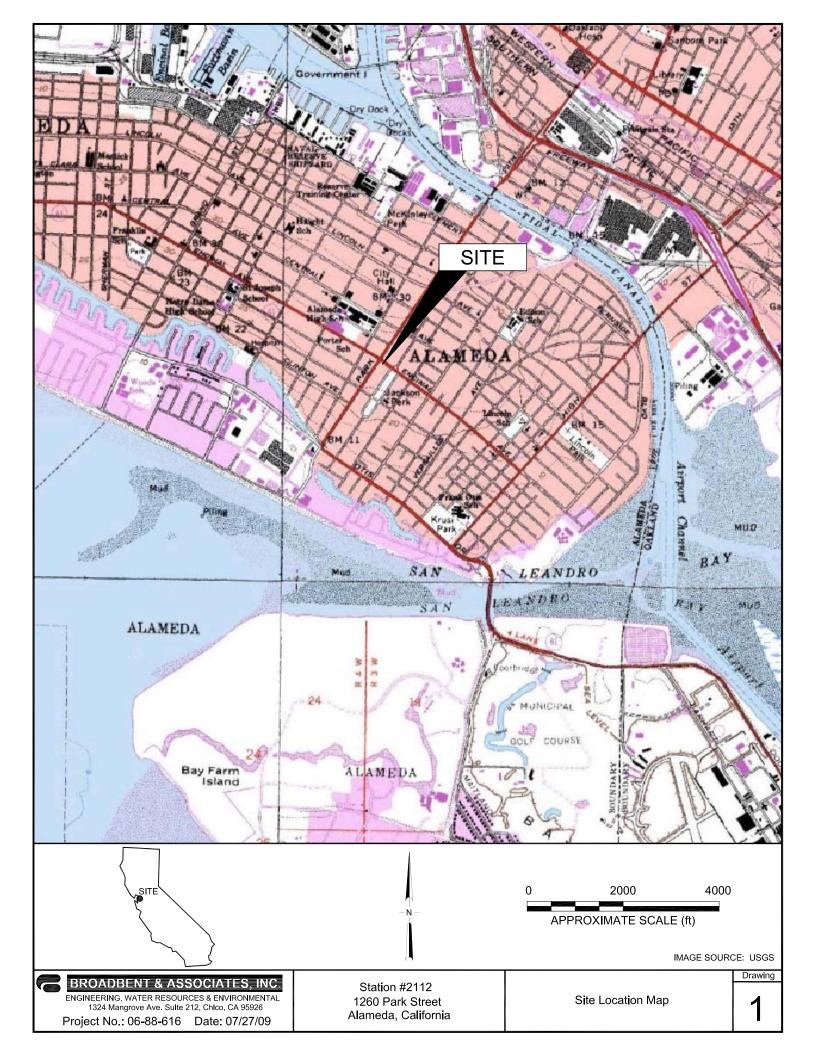
ATTACHMENTS:

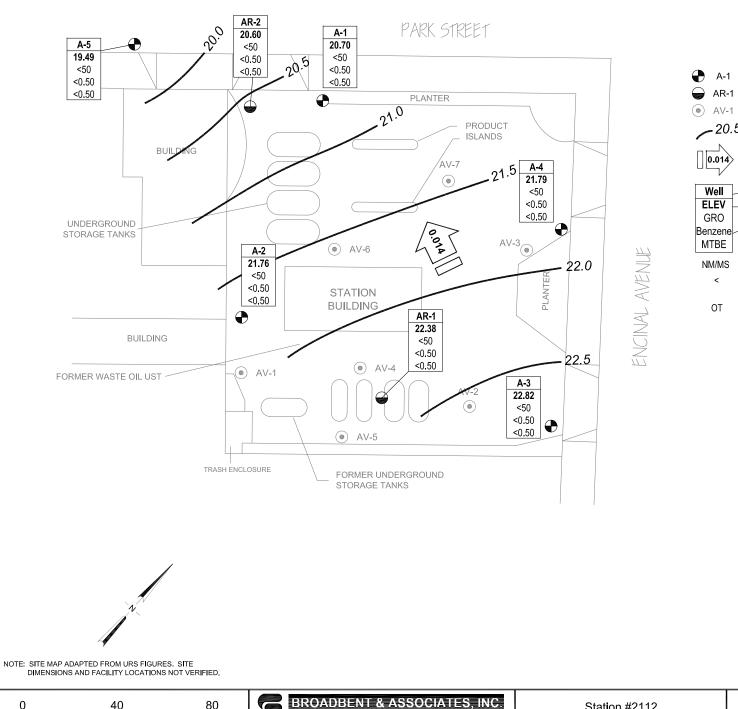
Drawing 1:	Site Location Map
Drawing 2:	First Quarter 2011 Groundwater Elevation Contours and Analytical Summary Map
Table 1:	Summary of Groundwater Monitoring Data: Water Elevations and Laboratory Analyses
Table 2:	Summary of Fuel Additives Analytical Data
Table 3:	Historic Groundwater Flow Direction and Gradient
Appendix A:	Field Methods
Appendix B:	Field Data Sheets
Appendix C:	Laboratory Report and Chain-of-Custody Documentation
Appendix D:	GeoTracker Upload Confirmation Receipts

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
BAI:	Broadbent & Associates, Inc.	gal:	Gallons
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	GRO:	Gasoline-Range Organics
1,2-DCA	: 1,2-Dichloroethane	LNAPL:	Light Non-Aqueous Phase Liquid
DIPE:	Di-Isopropyl Ether	MTBE:	Methyl Tertiary Butyl Ether
DO:	Dissolved Oxygen	NO ₃ :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO_4 :	Sulfate
Eh:	Oxidation Reduction Potential	TAME:	Tert-Amyl Methyl Ether

EPA:	Environmental Protection Agency	TBA:	Tertiary Butyl Ether
	Ethyl Tertiary Butyl Ether	TOC:	Top of Casing
Fe^{2+} :	Ferrous Iron	μg/L:	micrograms per liter





	LEGEND:
🗭 A-1	MONITORING WELL LOCATION
🔵 AR-1	GROUNDWATER EXTRACTION WELL LOCATION
 AV-1 	VAPOR EXTRACTION WELL LOCATION
20.50	GROUNDWATER ELEVATION CONTOURS (FT)
0.014	GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
Well	- WELL DESIGNATION
ELEV	- GROUNDWATER ELEVATION (FT)
GRO	GRO, BENZENE AND MTBE
Benzene MTBE	CONCENTRATIONS IN GROUNDWATER (µg/L)
NM/MS	NOT MEASURED/NOT SAMPLED
<	NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
ОТ	ONE TIME, PER ACEH REQUEST

Drawing

2

DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926 Project No.: 06-88-616 Date: 4/12/2011

Station #2112 1260 Park Street Alameda, California Groundwater Elevation Contours and Analytical Summary Map 8 February 2011

		тос	Depth to	Water Level			Concentra	ations in (µ	g/L)			
Well and		Elevation	Water	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
A-1												
10/7/1991		28.39	16.47	11.92	470	48	34	7.5	82			
2/18/1992		28.39	17.16	11.23	<30	5.4	0.82	<0.3	<0.3			
5/22/1992		28.39	17.14	11.25	38	15	0.92	1.3	0.51			
8/14/1992		28.39	16.63	11.76	<50	14	<0.5	1.5	<0.5			
10/23/1992		28.39	16.28	12.11	66	22	4.6	2	4.3			
1/28/1993		28.39	17.34	11.05	750	120	120	16	96			
2/24/1993		28.39	18.43	9.96								
4/28/1993		28.39	17.71	10.68	6,700	1,900	1,700	240	1,300			
5/28/1993		28.39	17.18	11.21								
6/16/1993		28.39	16.63	11.76								
7/27/1993		28.39	16.60	11.79								
8/24/1993		28.39	16.44	11.95	1,800	230	88	34	160			
9/28/1993		28.39	16.66	11.73								
10/22/1993		28.39	16.67	11.72	2,500	79	<10	<10	160			
11/16/1993		28.39	16.56	11.83								
12/16/1993		28.39	16.96	11.43								
2/7/1994		28.39	17.62	10.77	61	24	< 0.5	2.1	0.8			
5/2/1994		28.39	17.17	11.22	58	17	0.7	2.2	4.2			
8/5/1994		28.39	11.40	16.99	<50	5.1	1.4	0.6	2.5			
11/30/1994		28.39	9.43	18.96	130	16	8.4	0.6	27			
2/22/1995		28.39	10.76	17.63	<50	1.2	< 0.50	< 0.50	< 0.50			
5/23/1995		28.39	9.25	19.14	<50	4.9	0.95	0.61	3.9			
8/9/1995		28.39	11.33	17.06	<50	2.3	< 0.50	< 0.50	0.53	<2.5		
11/16/1995		28.39	12.11	16.28	<50	3.3	1.5	< 0.50	1.9			
1/15/1996		28.39	11.18	17.21	<50	< 0.50	< 0.50	< 0.50	< 0.50			
4/8/1996		28.39	10.61	17.78	<50	< 0.50	< 0.50	< 0.50	<0.50			
7/2/1996		28.39	11.28	17.11	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
10/1/1996		28.39	11.70	16.69	<50	< 0.50	< 0.50	< 0.50	<0.50	<2.5		
4/8/1997		28.39	10.98	17.41	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
6/14/1997		28.39	11.35	17.04	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		

		тос	Depth to	Water Level			Concentra	ations in (µ	ug/L)			
Well and		Elevation	Water	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
A-1 Cont.												
7/17/2006		30.81	10.92	19.89	<50	< 0.50	< 0.50	< 0.50	< 0.50	22		a
9/10/2010	Р	30.81	10.90	19.91	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
2/8/2011	Р	30.81	10.11	20.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.39	
A-2												
10/7/1991		29.28	12.74	16.54	31	7.4	0.39	< 0.3	0.93			
2/18/1992		29.28	11.55	17.73	490	120	<1.5	<1.5	17			
5/22/1992		29.28	11.71	17.57	100	2.4	< 0.3	< 0.3	0.89			
8/14/1992		29.28	12.54	16.74	110	5	<0.5	<0.5	<0.5			
10/23/1992		29.28	12.64	16.64	<50	< 0.5	< 0.5	< 0.5	< 0.5			
1/28/1993		29.28	10.29	18.99	280	130	<2.5	<2.5	<2.5			
2/24/1993		29.28	11.05	18.23								
4/28/1993		29.28	10.91	18.37	210	32	0.89	5.2	2.3			
5/28/1993		29.28	11.27	18.01								
6/16/1993		29.28	12.20	17.08								
7/27/1993		29.28	11.27	18.01								
8/24/1993		29.28	12.25	17.03	<50	<0.5	<0.5	<0.5	<0.5			
9/28/1993		29.28	12.36	16.92								
10/22/1993		29.28	12.18	17.10	<50	<0.5	<0.5	<0.5	<0.5			
11/16/1993		29.28	12.34	16.94								
12/16/1993		29.28	11.74	17.54								
2/7/1994		29.28	10.56	18.72	<50	<0.5	< 0.5	< 0.5	< 0.5			
5/2/1994		29.28	11.48	17.80	<50	<0.5	<0.5	< 0.5	<0.5			
8/5/1994		29.28	12.26	17.02	<50	<0.5	< 0.5	< 0.5	< 0.5			
11/30/1994		29.28	10.93	18.35	<50	<0.5	<0.5	<0.5	<0.5			
2/22/1995		29.28	10.55	18.73	<50	0.68	1.3	< 0.5	0.52			
5/23/1995		29.28	11.05	18.23	<50	< 0.50	< 0.50	< 0.50	< 0.50			
8/9/1995		29.28	11.70	17.58	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
11/16/1995		29.28	12.64	16.64	<50	< 0.50	< 0.50	< 0.50	< 0.50			
1/15/1996		29.28	11.17	18.11	<50	< 0.50	< 0.50	< 0.50	< 0.50			
4/8/1996		29.28	10.45	18.83	<50	< 0.50	< 0.50	< 0.50	<0.50			

		TOC			Concentrations in (µg/L)							
Well and		TOC Elevation	Depth to Water	Water Level Elevation	GRO/		Concentra	Ethyl-	Ig/L) Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
•		(1000)	(1000)	(1000)	8	Demene	10140110	Dement	11,101105		(
A-2 Cont.												
7/2/1996		29.28	11.40	17.88	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
10/1/1996		29.28	12.10	17.18	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
4/8/1997		29.28	11.05	18.23	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
6/14/1997		29.28	11.65	17.63	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
7/17/2006		31.26	11.00	20.26	<50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50		
9/10/2010	Р	31.26	10.84	20.42	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
2/8/2011	Р	31.26	9.50	21.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.15	
A-3												
10/7/1991		27.87	10.55	17.32	<30	< 0.3	< 0.3	< 0.3	< 0.3			
2/18/1992		27.87	9.12	18.75	<30	< 0.3	< 0.3	< 0.3	< 0.3			
5/22/1992		27.87	9.41	18.46	<30	< 0.3	< 0.3	< 0.3	< 0.3			
8/14/1992		27.87	10.31	17.56	<50	< 0.5	<0.5	< 0.5	<0.5			
10/23/1992		27.87	10.57	17.30	<50	< 0.5	< 0.5	< 0.5	< 0.5			
1/28/1993		27.87	7.66	20.21	<50	<0.5	<0.5	<0.5	<0.5			
2/24/1993		27.87	8.28	19.59								
4/28/1993		27.87	6.76	21.11	<50	< 0.5	<0.5	< 0.5	< 0.5			
5/28/1993		27.87	8.98	18.89								
6/16/1993		27.87	9.69	18.18								
7/27/1993		27.87	9.66	18.21								
8/24/1993		27.87	9.85	18.02	<50	<0.5	<0.5	<0.5	<0.5			
9/28/1993		27.87	10.21	17.66								
10/22/1993		27.87	10.05	17.82	<50	< 0.5	<0.5	<0.5	<0.5			
11/16/1993		27.87	11.20	16.67								
11/16/1993		27.87	9.42	18.45								d
2/7/1994		27.87	8.29	19.58	<50	< 0.5	< 0.5	< 0.5	< 0.5			
5/2/1994		27.87	9.08	18.79	<50	<0.5	<0.5	<0.5	<0.5			
8/5/1994		27.87	10.02	17.85	<50	< 0.5	< 0.5	< 0.5	< 0.5			
11/30/1994		27.87	8.53	19.34	<50	<0.5	<0.5	<0.5	<0.5			
2/22/1995		27.87	7.90	19.97	<50	< 0.50	< 0.50	< 0.50	< 0.50			
5/23/1995		27.87	8.60	19.27	<50	< 0.50	< 0.50	< 0.50	< 0.50			

		тос	Depth to	Water Level			Concentra	ations in (µ	ıg/L)			
Well and		Elevation	Water	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
A-3 Cont.												
8/9/1995		27.87	9.30	18.57	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
11/16/1995		27.87										e
1/15/1996		27.87	8.66	19.21								e
4/8/1996		27.87	7.86	20.01								e
7/2/1996		27.87	9.03	18.84	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
10/1/1996		27.87	9.88	17.99								e
4/8/1997		27.87	8.55	19.32								e
6/14/1997		27.87	9.43	18.44								e
7/17/2006		30.20										с
9/10/2010		30.20										с
2/8/2011	NP	30.20	7.38	22.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.05	f
A-4												
10/7/1991		28.54	11.40	17.14	<30	0.32	0.69	< 0.3	1.1			
2/18/1992		28.54	10.52	18.02	<30	< 0.3	< 0.3	< 0.3	< 0.3			
5/22/1992		28.54	10.45	18.09	<30	< 0.3	< 0.3	< 0.3	< 0.3			
8/14/1992		28.54	11.22	17.32	<50	<0.5	< 0.5	< 0.5	< 0.5			
10/23/1992		28.54	11.44	17.10	<50	< 0.5	< 0.5	< 0.5	< 0.5			
1/28/1993		28.54	9.12	19.42	<50	< 0.5	< 0.5	< 0.5	< 0.5			
2/24/1993		28.54	9.91	18.63								
4/28/1993		28.54	8.29	20.25	<50	<0.5	< 0.5	<0.5	<0.5			
5/28/1993		28.54	9.92	18.62								
6/16/1993		28.54	10.64	17.90								
7/27/1993		28.54	10.81	17.73								
8/24/1993		28.54	10.98	17.56	<50	<0.5	<0.5	<0.5	<0.5			
9/28/1993		28.54	11.08	17.46								
10/22/1993		28.54	11.06	17.48	<50	<0.5	<0.5	<0.5	<0.5			
11/16/1993		28.54	10.27	18.27								
12/16/1993		28.54	10.64	17.90								
2/7/1994		28.54	9.42	19.12	<50	<0.5	< 0.5	< 0.5	< 0.5			
5/2/1994		28.54	10.33	18.21	<50	<0.5	<0.5	<0.5	<0.5			

		тос	Depth to	Water Level			Concentr	ations in (µ	g/L)			
Well and		Elevation	Water	Elevation	GRO/		concentra	Ethyl-	Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
A-4 Cont.												
8/5/1994		28.54	10.94	17.60	<50	< 0.5	< 0.5	< 0.5	<0.5			
11/30/1994		28.54	9.89	18.65	<50	< 0.5	< 0.5	< 0.5	<0.5			
2/22/1995		28.54	9.44	19.10	<50	< 0.50	< 0.50	< 0.50	< 0.50			
5/23/1995		28.54	9.80	18.74	<50	< 0.50	0.59	< 0.50	< 0.50			
8/9/1995		28.54	10.39	18.15	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
11/16/1995		28.54										е
1/15/1996		28.54	10.00	18.54								е
4/8/1996		28.54	9.34	19.20								е
7/2/1996		28.54	10.22	18.32	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
10/1/1996		28.54	10.85	17.69								е
4/8/1997		28.54	9.88	18.66								е
6/14/1997		28.54	10.43	18.11								е
7/17/2006		30.73	9.02	21.71	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		a,b
9/10/2010	Р	30.73	9.96	20.77	<50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50		
2/8/2011	Р	30.73	8.94	21.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	
A-5												
6/26/1992		27.29	10.77	16.52	<50	< 0.5	< 0.5	< 0.5	< 0.5			
8/14/1992		27.29	11.04	16.25	<50	<0.5	<0.5	<0.5	<0.5			
10/23/1992		27.29	11.12	16.17	<50	< 0.5	< 0.5	< 0.5	< 0.5			
1/28/1993		27.29	9.94	17.35	<50	< 0.5	< 0.5	< 0.5	< 0.5			
2/24/1993		27.29	10.63	16.66								
4/28/1993		27.29	10.70	16.59	<50	< 0.5	< 0.5	< 0.5	<0.5			
5/28/1993		27.29	10.35	16.94								
6/16/1993		27.29	10.76	16.53								
7/27/1993		27.29	10.78	16.51								
8/24/1993		27.29	10.97	16.32	<50	<0.5	< 0.5	<0.5	< 0.5			
9/28/1993		27.29	10.90	16.39								
10/22/1993		27.29	10.82	16.47	<50	<0.5	< 0.5	<0.5	< 0.5			
11/16/1993		27.29	10.98	16.31								
12/16/1993		27.29	10.70	16.59								

		тос	Depth to	Water Level		Concentrations in (µg/L)						
Well and		Elevation	Water	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Comments
A-5 Cont.												
2/7/1994		27.29	9.96	17.33	<50	<0.5	0.9	< 0.5	0.7			
5/2/1994		27.29	10.59	16.70	<50	<0.5	<0.5	<0.5	<0.5			
8/5/1994		27.29	10.91	16.38	<50	< 0.5	< 0.5	< 0.5	<0.5			
11/30/1994		27.29	10.69	16.60	<50	< 0.5	< 0.5	< 0.5	<0.5			
2/22/1995		27.29	10.71	16.58	<50	< 0.50	< 0.50	< 0.50	< 0.50			
5/23/1995		27.29	10.75	18.33	<50	< 0.50	< 0.50	< 0.50	< 0.50			
8/9/1995		27.29	10.78	18.30	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
11/16/1995		27.29	11.33	15.96	<50	< 0.50	< 0.50	< 0.50	< 0.50			
1/15/1996		27.29	10.61	16.68	<50	< 0.50	< 0.50	< 0.50	<0.50			
4/8/1996		27.29	10.59	16.70	<50	< 0.50	< 0.50	< 0.50	< 0.50			
7/2/1996		27.29	10.73	16.56	<50	< 0.50	< 0.50	< 0.50	<0.50	<2.5		
10/1/1996		27.29	10.84	16.45	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
4/8/1997		27.29	10.68	16.61	<50	< 0.50	< 0.50	< 0.50	<0.50	<2.5		
6/14/1997		27.29	10.70	16.59	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		
7/17/2006		29.53	10.67	18.86	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		a
9/10/2010	Р	29.53	10.21	19.32	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
2/8/2011	Р	29.53	10.04	19.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	
AR-1												
9/10/2010	Р	31.17	10.24	20.93	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
2/8/2011	Р	31.17	8.79	22.38	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	
AR-2												
9/10/2010	Р	30.19	10.37	19.82	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
2/8/2011	Р	30.19	9.59	20.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.93	

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available < = Not detected at or above laboratory reporting limit ft bgs = Feet below ground surface BTEX = Benzene, toluene, ethylbenzene and xylenes DO = Dissolved oxygenDTW = Depth to water in ft bgsGRO = Gasoline range organics, range C4-C12GWE = Groundwater elevation measured in ft mg/L = Milligrams per liter MTBE = Methyl tert butyl ether NP = Not purged before sampling P = Purged before sampling TOC = Top of casing measured in ftTPH-g = Total petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015, Modified $\mu g/L =$ Micrograms per liter SEQ/SEQM = Sequoia Analytical/Sequoia Morgan Hill Laboratories

FOOTNOTES:

- a = Hydrocarb. in req. fuel range, but doesn't resemble req. fuel
- b = Surrogate recovery above the acceptance limits. Matrix interference suspected
- c = Well obstructed
- d = Date believed to be erroneous; date likely to be 12/16/1993
- e = Well sampled annually
- f = NP due to blockage

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #2112, 1260 I	Park Street, Alameda, CA
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Well and		Concentrations in (µg/L)							
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
A-1									
8/9/1995			<2.5						
7/2/1996			<2.5						
10/1/1996			<2.5						
4/8/1997			<2.5						
6/14/1997			<2.5						
7/17/2006	<300	<20	22	<0.50	< 0.50	3.3	0.76	< 0.50	
9/10/2010	<300	<10	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-2									
8/9/1995			<2.5						
7/2/1996			<2.5						
10/1/1996			<2.5						
4/8/1997			<2.5						
6/14/1997			<2.5						
7/17/2006	<300	<20	<0.50	< 0.50	<0.50	< 0.50	1.2	<0.50	
9/10/2010	<300	<10	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	0.96	<0.50	
A-3									
8/9/1995			<2.5						
7/2/1996			<2.5						
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-4									
8/9/1995			<2.5						
7/2/1996			<2.5						
7/17/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
9/10/2010	<300	<10	<0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A-5									
8/9/1995			<2.5						

Table 2. Summary of Fuel Additives Analytical Data

Well and				Concentratio	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
A-5 Cont.									
7/2/1996			<2.5						
10/1/1996			<2.5						
4/8/1997			<2.5						
6/14/1997			<2.5						
7/17/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
9/10/2010	<300	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
AR-1									
9/10/2010	<300	<10	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	
AR-2									
9/10/2010	<300	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/8/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

ABBREVIATIONS & SYMBOLS: < = 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-Butyl alcohol µg/L = micrograms per liter

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
7/17/2006	West	0.01
9/10/2010	West	0.009
2/8/2011	Northwest	0.014

Table 3. Historical Groundwater Flow Direction and GradientARCO Service Station #2112, 1260 Park Street, Alameda, CA

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

APPENDIX A

FIELD METHODS

BROADBENT & ASSOCIATES INC. FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to enhance the accuracy and reliability of data collection, ground-water sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

A.1.1 Water Level & Free-Product Measurement

Prior to ground-water sample collection from each monitoring well, the presence of separatephase hydrocarbons (SPH or free product, FP) and depth to ground water shall be measured. Depth to ground water will be measured with a standard water level indicator that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to groundwater will be gauged from a saw cut notch at the top of the well casing on each well head. Where FP is suspected, the initial gauging will be done with an oil-water interface probe. Once depth to water has been measured, the first retrieval of a new disposable bailer will be scrutinized for the presence of SPH/FP.

A.1.2 Monitoring Well Purging

Subsequent to measuring depth to ground water and prior to the collection of ground-water samples, purging of standing water within the monitoring will be performed if called for. Consistent with the American Society for Testing and Materials (ASTM) Standard D6452-99, Section 7.1, the well will be purged of approximately three wetted-casing volumes of water, or until the well is dewatered, or until monitored field parameters indicate stabilization. The well will be purged using a pre-cleaned disposable bailer or submersible pump and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. So that the sample collected is representative of formation water, several field parameters will be monitored during the purging process. The sample will not be collected until these parameters (i.e. temperature, pH, and conductivity) have stabilized to within 10% of the previously measured value. If a well is purged dry, the sample should not be collected until the well has recovered to a minimum 50% of its initial volume.

A.1.3 Ground-Water Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a pre-cleaned, new, disposable bailer and transferred into the appropriate, new, laboratory-prepared containers such that no head space or air bubbles are present in the sample container (if appropriate to the analysis). The samples will be properly labeled (i.e. sample identification, sampler initials, date/time of collection, site location, requested analyses), placed in an ice chest with bagged ice or ice substitute, and delivered to the contracted analytical laboratory.

A.1.4 Surface Water Sample Collection

Unless specified otherwise, surface water samples will be collected from mid-depth in the central area of the associated surface water body. Water samples will be collected into appropriate, new, laboratory-prepared containers by dipping the container into the surface water unless the container has a preservative present. If a sample preservative is present, a new, cleaned non-preserved surrogate container will be used to obtain the sample which will then be directly transferred into a new, laboratory-provided, preserved container. Samples will be properly labeled and transported as described above.

A.1.5 Decontamination Protocol

Prior to use in each well, re-usable ground-water sampling equipment (e.g., water level indicator, oil-interface probe, purge pump, etc.) will be decontaminated. Decontamination protocol will include thoroughly cleaning with a solution of Liquinox, rinsing with clean water, and final rinsing with control water (potable water of known quality, distilled, or de-ionized water). Pre-cleaned new disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.6 Chain of Custody Procedures

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

Field Custody Procedures

The field sampler is individually responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have unique labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the field sampler.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual relinquishing and the individual receiving the samples will each sign, date, and note the time on the COC. This documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by responsible courier. When a shipping courier is utilized, the sample shipment number will be identified on the COC.

A.1.7 Field Records

In addition to sample identification numbers and COC records, Daily Field Report records will be maintained by field staff to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain observed information such as: the personnel present, site conditions, sampling procedures, measurement procedures, calibration records, equipment used, supplies used, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent file records.

APPENDIX B

FIELD DATA SHEETS

FIELD DATA REPORT

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

WEATH	IER:	OK Forder	4. Sona	(hel m	COMM Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH	· · · ·
Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	pН	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	lron (mg/l)	Alk. (mg/l)	WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC
	14.03	Tec	10.11									
AZA	1053		9,50			 						I built schement atte
i de la constante de la consta	1317		7.38									1 stripped
A- 4	1335		8.94									
A-5	<u>////</u>		10:04									
	1223		8.79									
AR-2	1143	2	9,59	~							,	
					*							
<u></u>				· · · · · · · · · · · · · · · · · · ·								
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G:VADMINISTRATION/BAI FORMS/WATER LVL MEAS FORM

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

3.1 (A.1.), 6.

Groundwater Sampling Data Sheet

Well I.D.	.:			91				
Project N	lame/Lo	cation:	BI	211	2 /		Project	+. No contain
Sampler			EP		AS	- -	Date:	#: Ne-88-616
Purging			Bay	12-0-			Date:	110008
Sampling			Read	and the second s				
Casing T	ype: PV(2						
Casing D	iameter:	:			inch		<u> KLINIT"</u>	7 65 6711 6 1 6 1 1 1
Total We	ll Depth:	•		20	00 feet	•		T CASING VOLUMES
Depth to	Water:		······································	- 10.				' = 0.16 gal/lin ft.
Water Co	olumn Th	lickness	-		7. 89 feet	•		' = 0.37 gal/lin ft.
Unit Casi	ing Volur	ne*:	·		<u>37</u> gallon / f	oot		' = 0.65 gal/lin ft,
Casing W	ater Vol	ume:			300 gattons	001	0	' = 1.47 gal/lin ft.
Casing V					3 each			
Estimate	d Purge	Volume			2~, gallons			
Free proc				esent):				
Purged	Time	DO	ORP	Fe	Conductance	Temperature	F	
(gallons)	(24:00)	ļ	(mV)		(µS)	(Fahrenheit)	рH	Observations
1.	1403	0.39	254		650	66.0	32	
3	1411	x	×	X	450	64.3	7.1	
4	14/2	x	X	X	1050	64.8	7-1	
		x	X	X '	-			
	ļ	x	×	х				
Į		х	х	x	•			
	ļ	×	X	×				
		х	х	х				
Total Wat Depth to Sample (Water at	Sample	e Collect	ion; _	6	gallons feet	Pun	ged Dry? (Y/N)
Comment	s:						·	
		-*						
		1 M						
							a de la composition d La composition de la c	

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

			A-	2 -				
Weil I.D.:		. 7	30 211)	4			06 88 616
Project Na		tion:			······································		Date: $\frac{2}{3}$	2/11
Sampler's				<u>4s</u>			Jate: A/	<u>»/ ((</u>
Purging Eq	luipment		Ba, Le					······································
Sampling I		nt: -	Burt		<u>,</u>			
Casing Typ				3			-	
Casing Dia	meter:			रा -	inch			CASING VOLUMES
Total Well	Depth:			<u>31,e</u>				= 0.16 gal/lin ft.
Depth to V				- <u> 9.50</u>				= 0.37 gal/lin ft.
Water Col	umn Thie	ckness:			feet			= 0.65 gal/lin ft.
Unit Casin	g Volum	e*:		x <u>Oi3</u>	gallon / fo	ot	6"	= 1.47 gal/lin ft.
Casing Wa	ater Volu	me:		= <u>1,9</u>	2gallons	•		
Casing Vo	lume:				3each			
Estimated	Purge V	olume:	<u> </u>	= <u>23</u>	<u>. </u>			
Free prod	uct mea	sureme	nt (if pro	esent):	<u></u>			
Purged	Time	DO	ORP	Fe	Conductance	Temperature	рН	Observations
(gallons)	(24:00)		(mV)		(μS)	(Fahrenheit)		
0.	1044	1.15	248		700	63.9	7.1	·
84	1047	x	×	X	900	63,3	7.0	
8	1050	х	x	х	890	63.0	7.0	
-		x	x	X				
		х	х	х				
	1	x	×	x				
	1	x	x	x				
		x	×	x				
Total Wa	ter Volu	ne Purc	led:	1	8	gallons		······································
Depth to				tion:	;r	feel		
Sample					105			rged Dry?(Y/N)
Sample	conecu	Var Han	G.			گ م <u>ر</u>	_ ''	
Commen	ts:					·····		
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							A & bables	
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ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.:			<u> </u>	3				
Project Na	ame/Loc	ation:	<u> </u>	112			Project #	:0688616
Sampler's	Name:		E.f	win	A. Son	erholm	Date: 11	
Purging E	quipmer	it:						
Sampling	Equipm	ent:	Bin				·····	
Casing Ty	pe: PVC		•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				· · · · · · · · · · · · · · · · · · ·
Casing Dia	ameter:			· <u> </u>	inch		*UNIT	CASING VOLUMES
Total Well	Depth:				feet			= 0.16 gal/lin ft.
Depth to \	Water:			- 7.	<u>3</u> feet			= 0.37 gal/lin ft.
Water Col	umn Thi	ickness:			feet			= 0.65 gal/lin ft.
Unit Casin	ig Volun	ne*:		x	gallon / fe	oot		= 1.47 gal/lin ft.
Casing Wa	ater Volu	ume:			gallons			· ·
Casing Vo				×	<u>3</u> each			
Estimated					gallons			
Free prod	uct mea	sureme	nt (if pr	esent):				
Purged	Time	DO	ORP	Fe	Conductance	Temperature	pН	Observations
(galions)	(24:00)	5 60	(mV)		<u>(</u> μS)	(Fahrenheit)		
.C.:	1317	1,05	245		530	61.3	6.7	
		х	х	х			<u> </u>	
		x	х	х				
-		х	х	X				
		х	х	х				
		x	х	×				
		х	X	х				<u></u>
		×	×	x				
rotal Wate	er Volum	ne Purge	ed:		0	gallons	<u> </u>	
Depth to V				ion:	frates (see 1	reet		
Sample C	ollectio	л Tíme			1317		Purc	jed Dry? (Y/N)
Comments	, N	1 du	че -	to l	Blochase.			
							·	······································
			······					
· . · · ·		1	(1) 	and the second s		· · · ·		
		<u></u>		÷.				

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.:			A-	M				
Project Na	me/Loca	tion:	21	12			Project #	1:06-86-618
Sampler's	-	-	A.	Sane	ediction E:	Firm	Date: (10208
Purging Ec		- t:	But					
Sampling		-	Br 7					
Casing Typ		-		3				· · · · · · · · · · · · · · · · · · ·
Casing Dia					inch		*UNIT	CASING VOLUMES
Total Well	Depth:			200			2"	= 0.16 gal/lin ft.
Depth to V	<u> Vater:</u>			- <u> </u>			3"	= 0.37 gal/lin ft.
Water Col	umn Thi	ckness:			56 feet		4"	= 0.65 gal/lin ft.
Unit Casin	g Volum	e*:		x 0.3	gallon / fo	oot	6۳	= 1.47 gal/lin ft.
Casing Wa	ster Volu	ime:		= <u>4.</u>)	gallons			
Casing Vo	lume:			and the second s	3 each			
Estimated					<u>,43</u> gallons			
Free prod	uct mea	sureme	nt (if pro	esent):				
Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µ5)	Temperature (Fahrenheit)	рH	Observations
U.	1240	0.59	048		640	64.9	7.3	· · · · · · · · · · · · · · · · · · ·
2	1343	х	x	x	579)	64.3	0, ۲	
6	1348	х	X	x	SEC	601.5	7.0	an a
	,	x	x	X		- A		
		х	. x	x				
		x	x	×				
		x	×	х				
	 	x	×	x			- drue	
Total Wat	er Volun	ne Pura	l		6	<u>l</u> gallons	<u>L</u>	
Depth to		-		tion:		feet	+	
Sample					1350		-	rged Dry? (Y AN)
Соттепт	5;					`:		
					ал <u>.</u>			
				· · · · · · · · · · · · · · · · · · ·				
							10248334	

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ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Project Nan Sampler's N Purging Equ Sampling E Casing Type Casing Diar Total Well I Depth to W Water Coluu Unit Casing Casing Wat	Name: uipmen quipme e: PVC meter: Depth: /ater:	nt: ent:	F	2112 - A va.les va.les	<u>*</u>		Project # Date:	#: 17688616 2-8-11
Purging Equ Sampling E Casing Type Casing Diar Total Well I Depth to W Water Colum Unit Casing	uipmen quipme e: PVC meter: Depth: /ater:	ent:	·P	a les	· · · · · · · · · · · · · · · · · · ·		Date:	
Sampling E Casing Type Casing Diar Total Well I Depth to W Water Colum Unit Casing	iquipme e: PVC meter: Depth: 'ater:	ent:			••••••••••••••••••••••••••••••••••••••			
Casing Type Casing Diar Total Well I Depth to W Water Colu Unit Casing	e: PVC meter: Depth: 'ater:		<u>T</u>	a. led				
Casing Diar Total Well I Depth to W Water Colum Unit Casing	meter: Depth: 'ater:							
Total Well [Depth to W Water Colu Unit Casing	Depth: ater:	<u></u>						
Depth to W Water Colu Unit Casing	ater:				inch		*UNIT	CASING VOLUMES
Water Colu Unit Casing				30.	5° feet			= 0.16 gal/lin ft.
Unit Casing					<u>.09</u> feet -			= 0.37 gal/lin ft.
		ckness:		=	<u>. Me</u> feet			= 0.65 gal/lin ft.
Casing Wat	Volum	1e*:	······································	x_ <i>U</i> _	<u>37</u> gallon / f	oot		= 1.47 gal/lin ft.
	er Volu	.me:		= 7.5	gations			
Casing Volu	ime;		·····	the second second second	3each			
Estimated P	Purge \	/olume:	, 	= <u>-22</u>	<u>.7</u> gallons			
Free produc	ct mea	sureme						
Purged	Time	DO	ORP	Fe	Conductance	Temperature	рH	Observations
_(gallons) ((24:00)		(mV)		(µS)	(Fahrenheit)		
	'///	6.55	175		560	66.9	7.5	
4 /	122	x	X	X	550	64.7	7.5	
8 /	129	x	X	Х	500	67.2	7.5	
		х	×	X .				
	·	х	х	х				
		x	x	×	·			· · ·
		х	x	х		······································		
		×	х	x				
Total Water		-			8	galions		
Depth to Wa				ion:		feet		
Sample Col	llectio	n Time	52	,	/130		Purc	ged Dry? (Y/(NS)
Comments:						<u> </u>		
Journments,								

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.:	:		A	<u>r - 1</u>				
Project Na	ame/Loc	cation:	<u> </u>	112	the second s		Project #	1:0685616
Sampler's	s Name:			firm	A. Some	chalma		10208
Purging E	quipmer	nt:	Bai					
Sampling	Equipm	ent:	<u></u>					
Casing Ty	rpe: PVC	2		į	1			and a second
Casing DI	ameter:				(inch		*UNIT	CASING VOLUMES
Total Wel	I Depth:			30	feet			= 0.16 gal/lin ft.
Depth to	Water:		·····	- <u>8</u> ,	79 feet -			= 0.37 gal/lin ft.
Water Col	lumn Th	ickness:		=_21	1 feet			= 0.65 gal/lin ft,
Unit Casir	ng Volun	ne*:		× Mo	gallon / f	oot		= 1.47 gal/lin ft.
Casing Wa	ater Volu	ume:		= 13	S gallons		·	THAT BOAT IC
Casing Vo	lume:			x	3 each			
Estimated	Purge	Volume:		= 41	35 gallons			
Free prod	uct mea	sureme	nt (if pr	esent):				
Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance	Temperature	- рН	Observations
ð.	1230	0.82			(#5) 460	(Fahrenheit)		
<u> </u>	1237		x	x	440	64.1	6.8	
10	1243	x	x	x	450	65-0	6.8	
10	1017	x	x	X	750	6-7.0	4.9	ana gala da basary na pagagamana ya pana na paga da kasara na paga da kasara na pana na pana na pana na pana na
·	· · ·	x	x					·
				X				
		×	×					
		X	X	X				·
		×	x	×				Mary 1 , 1997, 1
otal Wate		-			10	gallons		
Depth to V				lon:	TAIR	feet		
Sample C	ollectio	n lime	::		1245		Purg	jed Dry? (Y/N)
Comments								
			<u> </u>				······	
j.			· · · · · · · · · · · · · · · · · · ·	<u> </u>	·			
							_	
					· · · · · · · · · · · · · · · · · · ·		<u> </u>	· · · · · · · · · · · · · · · · · · ·
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ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet R-2 Well LD.: 211 Project Name/Location: Project #: 06 88616 Sampler's Name: form San ha Im Date: 1/020 B. E Purging Equipment: られて Sampling Equipment: Casing Type: PVC **Casing Dlameter:** inch ***UNIT CASING VOLUMES** Total Well Depth: 56 feet 2" = 0.16 gal/lin ft.9.59 Depth to Water: feet 3" = 0.37 gal/lin ft. 20,4 Water Column Thickness: feet $4^{*} = 0.65$ gal/lin ft. Unit Casing Volume*: x 0.65 gallon / foot $6^{*} = 1.47$ gal/lin ft. Casing Water Volume: 13. 20 gallons Casing Volume: 3 each Estimated Purge Volume: 39.79 = gallons Free product measurement (if present): Purged Time DÖ ORP Fe Conductance Temperature pН Observations (gations) (24:00)(mV) (µS) (Fahrenheit) ্বুহ 1150 1293 500 \mathcal{O} 63.5 7,5 5 1156 Х Х Х 490 7,5 10 Doc 510 62,9 х Х 1.5 х х Х Х Х х Х х х x • . х Х Х х х X Total Water Volume Purged: $\overline{\mathcal{O}}$ gallons Depth to Water at Sample Collection: feet Sample Collection Time: 1210 Purged Dry? (Y/N) Comments: -22 93 (d.



Laboratory Management Program LaMP Chain of Custody Record

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Page	i

No X

Rush TAT: Yes

BP/ARC Project Name: ARCO 2112 BP/ARC Facility No:

Req Due Date (mm/dd/yy):

	A BP affiliated company	BP/ARC Fa	cility No:										2112	2	Lab	Wor	k Or	der N	umb	er:							
Lab N	ame: Calscience			BP/	/ARC	Faci	lity A	ddres	3:	126	0 Park	Stree	÷t		Holdorena				Con	sultant	/Cont	ractor	;	Broa	adbent & Associates	s, Inc.	
Lab A	ddress: 7440 Lincoln Way			City	y, Sta	ate, Zl	IP Co	ode:		Alaı	neda,	CA							Con	sultant	(Cont	ractor	Proje	ect No	06-88-616-40	01-880	
Lab P	M: Richard Villafania			Lea	nd Re	gulat	ory A	gency	:	ACI	н								Addr	ess:	1324	Man	grove	Ave.	Ste. 212, Chico, CA	95926	
Lab P	hone: 714-895-5494			Cai	iforn	ia Glo	bal II	D No.:		T06	00100	083							Con	ultant	Cont	ractor	PM:	Tom	Venus	···········	
Lab S	hipping Acont:		9228	6 Ent	os P	ropos	al No	»:		005	Y2-000	D1							Phor	ie:	530-	566-1	400				
Lab B	ottle Order No:			Acc	count	ing M	lode:		Pro	visio	<u>х_</u> г	00	C-BU	I	00	C-RM	I	-	Ema	I EDD	To:	tven	us@b	roadb	entinc.com		
Other	Info:			Sta	ge:	Exe	cute	(4)	A	ctivity	: Pro	ject \$	Spen	id (80))				Invoi	ce To:		BF	P/ARC	:_ <u>x</u>	Contracto	г	
BP/AF	C EBM: Chuck Carmel				M	atrix		N	». Co	ntaiı	ners /	Pres	erva	tive				Requ	leste	d Ana	lyse	s			Report Ty	/pe & QC L	_evel
EBM F	Phone:				Ι				I			Τ		Τ	1								ł	T	Sta	andard X	<u> </u>
EBM E	Email:]				Containers													-				Fuil Data Pa	ickage	_
Łab No,	Sample Description	Date	Time	Soit / Solid	Water / Liquid	Air / Vapor	index - ac	Total Number of Contr	Unpreserved	H ₂ SO4	HNO ₃	HCI	Methanol	Wenanoi	GRO (8015)	BTEX (8260)	5 Oxys (8260)	EDB (8260)	1,2-DCA (8260)	Ethanol (8260)					Comments Note: If sample not collected, indicat Sample" in comments and single-stri and initial any preprinted sample des		strike out
	A-1	110201	1915		x			6				x			х	х	x	x	X	х							
	A-2		1055		x]		6				x			х	x	х	X	x	х							
	A-3		1317		x			6				x			х	х	×	x	×	х							
	A-4		1350	Γ	x			6				x			х	x	x	x	x	х						0	
	A-5		1130		x			6				х			х	x	х	х	x	x							
	AR-1		1245		x			6				x			х	x	х	x	x	х							
	AR-2	T	1210		X			6				х			х	x	х	x	x	х							
	TB - 2112 -	10208																									
Sample	er's Name: Eric Farry							-	ned E	3y / /	\ffilia	tion			Da	ate	Tù	ne			Acc	epte	d By	/ Affi	liation	Date	Time
Sample	er's Company: BA			-		r	~7								[102	S)	Fa	r									
Shipme	ent Method: &	Ship Date:)]	07/9														L										
Shipm	ent Tracking No: 1068469	351																									
Speci	al Instructions:																										
	THIS LINE - LAB USE ONLY CUS	stody Seals in Plac	e Yes/No	1	Tem	o 8lar	ak: Yr	es / No	5 Í	C	ooler -	Temp	on Re	ceipt:			"F/C	1	Tri	Blan	c Yes	s / No	l	MS	MSD Sample Sub	mitted: Yes /	No

NO. 690181

NON-HAZARDOUS WASTE DATA FORM

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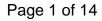
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معافعة المتهفيقة الالمهاي فأشابه فأخلف سماعا بمعالمه فبالم ومرابع المتناقف

		BESI# 189855							
	Generator's Name and Malling Address BP WEST COAST PRODUCTS, LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688	Generator's Site Address (if different than mailing address) 02112 1260 PARK STREET ALAMEDA, CA 94501							
-	Generator's Phone: 949-460-5200 Container type removed from site: XX Drums Vacuum Truck Other Quantity	Container type transported to receiving facility: Drums XX Vacuum Truck Roll-off Truck Other Quantity Volume							
GENERATOR	WASTE DESCRIPTION NON-HAZARDOUS WATER COMPONENTS OF WASTE PPM % WATER 99-100%	GENERATING PROCESS WELL PURGING / DECON WATER COMPONENTS OF WASTE PPM %							
	2. TPH <pre></pre>								
	Generator Printed/Typed Name Signature Larry Moothart of BESI on behalf of generator	Month Day Year 31511							
<u></u>	The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BELSHIRE	Phone# 949-460-5200							
ORTER	Transporter 1 Printed/Typed Name Signature Signature	Month Day Year 31511							
TRANSPORTE	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Signature	Phone# 714-990-6855 Month Day Year							
Ľ.	Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address DEMENNO KERDOON CORO N. ALALEDA ST	Phone# 310-537-7100							
RECEIVING FACILITY	2000 N. ALAMEDA ST. COMPTON, CA 90222 02/12 645-174								
RECEIV	Printed Typed Name Signature Fem and Mayoven Designated Facility Owner or Operator: Certification of receipt of materials covered by this data top	h. Month Day Year b. D32111							

APPENDIX C

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION







February 24, 2011

Tom Venus Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Subject: Calscience Work Order No.: 11-02-0642 Client Reference: ARCO 2112

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/10/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Richard Villes.

Calscience Environmental Laboratories, Inc. Richard Villafania Project Manager

NELAP ID: 03220CA · DoD-ELAP ID: L10-41 · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830 7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Page 2 of 14



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642 Date Received: Work Order No: Preparation: Method:

02/10/11
11-02-0642
EPA 5030C
EPA 8015B (M)

Page 1 of 2

Project: ARCO 2112

-]							-	
Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A-1		11-02-0642-1-E	02/08/11 14:15	Aqueous	GC 11	02/10/11	02/11/11 12:16	110210B02
Parameter	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	78	38-134						
A-2		11-02-0642-2-Е	02/08/11 10:55	Aqueous	GC 11	02/10/11	02/11/11 07:47	110210B02
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	77	38-134						
A-3		11-02-0642-3-Е	02/08/11 13:17	Aqueous	GC 11	02/10/11	02/11/11 15:38	110210B02
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	75	38-134						
A-4		11-02-0642-4-E	02/08/11 13:50	Aqueous	GC 11	02/10/11	02/11/11 16:12	110210B02
Parameter	<u>Result</u>	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	78	38-134						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Mulana

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Page 3 of 14



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642 Date Received: Work Order No: Preparation: Method: 02/10/11 11-02-0642 EPA 5030C EPA 8015B (M)

Page 2 of 2

Project: ARCO 2112

-]							-	
Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A-5		11-02-0642-5-E	02/08/11 11:30	Aqueous	GC 11	02/10/11	02/11/11 16:45	110210B02
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	79	38-134						
AR-1		11-02-0642-6-E	02/08/11 12:45	Aqueous	GC 11	02/10/11	02/11/11 17:19	110210B02
Parameter	Result	RL	DF	Qual	Units			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	78	38-134						
AR-2		11-02-0642-7-E	02/08/11 12:10	Aqueous	GC 11	02/10/11	02/11/11 17:53	110210B02
Parameter	<u>Result</u>	<u>RL</u>	DE	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	78	38-134						
Method Blank		099-12-695-1,001	N/A	Aqueous	GC 11	02/10/11	02/11/11 11:43	110210B02
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	78	38-134						

 $\label{eq:RL-Reporting Limit} RL - Reporting Limit \ , \qquad DF - Dilution Factor \ , \qquad Qual - Qualifiers$

Calscience nvironmental aboratories, Inc.

A DECORDANCE

Page 4 of 14

Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642

Date Received:
Work Order No:
Preparation:
Method:
Units:

11-02-0642 EPA 5030C EPA 8260B ug/L

02/10/11

Page 1 of 3

Project: ARCO 2112

Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/ Analy		QC Batch ID
A-1			11-02-	-0642-1-A	02/08/11 14:15	Aqueous	GC/MS BB	02/10/11	02/11 04:4		110210L03
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTB	BE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Ald	cohol (TBA)		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	ethyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qu</u>	al	Surrogates:			<u>REC (%)</u>	<u>Control</u> <u>Limits</u>	<u>c</u>	Qual
1,2-Dichloroethane-d4	104	80-128			Dibromofluor	omethane		102	80-127		
Toluene-d8	100	80-120			1,4-Bromoflu	orobenzene		97	68-120		
A-2			11-02-	-0642-2-A	02/08/11 10:55	Aqueous	GC/MS BB	02/10/11	02/11 05:0		110210L03
Parameter	Result	RL	DF	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTR	RE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Ald	```)	ND	10	1	
1.2-Dichloroethane	0.96	0.50	1		Diisopropyl E	· · ·		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	· · · ·)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me		,	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	,	,	ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qu</u>	al	Surrogates:			<u>REC (%)</u>	<u>Control</u> <u>Limits</u>	<u>C</u>	Qual
1,2-Dichloroethane-d4	107	80-128			Dibromofluor	omethane		103	80-127		
Toluene-d8	100	80-120			1,4-Bromoflu	orobenzene		96	68-120		
A-3			11 -02 -	-0642-3-A	02/08/11 13:17	Aqueous	GC/MS BB	02/10/11	02/11 05::		110210L03
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTB	BE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Ald	•		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	ethyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qu</u>	al	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits	<u>c</u>	<u>Qual</u>
1,2-Dichloroethane-d4	105	80-128			Dibromofluor	omethane		101	80-127		
Toluene-d8	100	80-120			1,4-Bromoflu			94	68-120		
		00-120			, , 1 , 10110110			~ '	00-120		

RL - Reporting Limit , DF - Dilution Factor

ctor , Qual - Qualifiers

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Page 5 of 14

Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642 Date Received: Work Order No: Preparation: Method: Units: 02/10/11 11-02-0642 EPA 5030C EPA 8260B ug/L Page 2 of 3

Project: ARCO 2112

, 											5
Client Sample Number			L	ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/ Analy		QC Batch ID
A-4			11 -02 -	-0642-4-A	02/08/11 13:50	Aqueous	GC/MS BB	02/10/11	02/11 06:		110210L03
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTE	BE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Al	cohol (TBA)	,	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	· · ·		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	· · ·)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	•	,	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol		,,	ND	300	1	
Surrogates:	REC (%)	Control	Qu	al	Surrogates:			REC (%)	Control	-	Qual
Surrogates.	<u>IXEO (70)</u>	Limits			<u>ourregatee.</u>			<u></u>	Limits	-	
1,2-Dichloroethane-d4	107	80-128			Dibromofluor	omethane		104	80-127		
Toluene-d8	101	80-120			1.4-Bromoflu			96	68-120		
A-5		00 120	11-02-	-0642-5-A	02/08/11	Aqueous	GC/MS BB		02/11		110210L03
					11:30	-			06:	33	
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTB	BE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Al	•	,	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	``	,	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol		,	ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qu</u>	<u>ial</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits	<u>c</u>	Qual
1,2-Dichloroethane-d4	106	80-128			Dibromofluor	omethane		102	80-127		
Toluene-d8	100	80-120			1.4-Bromoflu			95	68-120		
AR-1			11-02-	-0642-6-A	02/08/11		GC/MS BB		02/11	1/11	110210L03
			-		12:45				07:	00	
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTE	BE)	ND	0.50	1	
1.2-Dibromoethane	ND	0.50	1		Tert-Butyl Al	(/	ND	10	1	
1,2-Dichloroethane	1.2	0.50	1		Diisopropyl E	` '		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl	(,)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	``	,	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	,	,	ND	300	1	
Surrogates:	<u>REC (%)</u>	Control	Qu	al	Surrogates:			REC (%)		-	Qual
<u>ounogalos.</u>	<u>IXEO (70)</u>	Limits	<u></u>		<u></u>			<u>(,,,</u>	Limits	-	<u> </u>
1,2-Dichloroethane-d4	108	80-128			Dibromofluor	omethane		103	80-127		
Toluene-d8	103	80-120			1,4-Bromoflu			99	68-120		
		00 120			1, + DIOINOIIU	0.00012010			00 120		

RL - Reporting Limit , DF - Dilution Factor

or , Qual - Qualifiers

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Page 6 of 14

A PLAN DE LA PARON

Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642

Date Received:	
Work Order No:	1
Preparation:	E
Method:	E
Units:	

11-02-0642 EPA 5030C EPA 8260B ug/L

02/10/11

Page 3 of 3

Project: ARCO 2112

Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/ Analy		QC Batch ID
AR-2			11-02-0	0642-7-A	02/08/11 12:10	Aqueous	GC/MS BB	02/10/11	02/11 07:2		110210L03
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTB	E)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qua</u>	<u>al</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> <u>Limits</u>	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	110	80-128			Dibromofluor	omethane		108	80-127		
Toluene-d8	101	80-120			1,4-Bromoflue	orobenzene		99	68-120		
Method Blank			099-12	-703-1,597	N/A	Aqueous	GC/MS BB	02/10/11	02/11 01:2		110210L03
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTB	E)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)	,	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Et	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qua</u>	<u>al</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	103	80-128			Dibromofluor	omethane		102	80-127		
Toluene-d8	100	80-120			1,4-Bromoflue	orobenzene		96	68-120		

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Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642	Date Received: Work Order No: Preparation: Mathed:	02/10/11 11-02-0642 EPA 5030C
	Method:	EPA 8015B (M)

Project ARCO 2112

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
A-1	Aqueous	GC 11	02/10/11		02/11/11	110210S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Gasoline Range Organics (C6-C12)	92	94	38-134	3	0-25	

RPD - Relative Percent Difference, CL - Control Limit

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Date Received: Work Order No: Preparation: Method:	02/10/11 11-02-0642 EPA 5030C EPA 8260B
	2. / 02008
	Work Order No: Preparation:

Project ARCO 2112

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
11-02-0643-1	Aqueou	s GC/MS BB	02/10/11		02/11/11	110210S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Benzene	105	105	76-124	0	0-20	
Carbon Tetrachloride	86	88	74-134	2	0-20	
Chlorobenzene	100	101	80-120	1	0-20	
1,2-Dibromoethane	96	97	80-120	2	0-20	
1,2-Dichlorobenzene	99	98	80-120	1	0-20	
1,2-Dichloroethane	111	111	80-120	1	0-20	
Ethylbenzene	98	97	78-126	0	0-20	
Toluene	103	103	80-120	0	0-20	
Trichloroethene	101	100	77-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	95	97	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	102	100	36-162	2	0-30	
Diisopropyl Ether (DIPE)	91	93	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	90	92	69-123	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	92	91	65-120	0	0-20	
Ethanol	102	111	30-180	8	0-72	

RPD - Relative Percent Difference, CL - Control Limit

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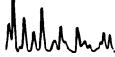


Broadbent & Associates, Inc.	Date Received:	N/A
1324 Mangrove Ave, Ste 212	Work Order No:	11-02-0642
Chico , CA 95926-2642	Preparation:	EPA 5030C
	Method:	EPA 8015B (M)

Project: ARCO 2112

Quality Control Sample ID	Matrix	Instrument	Dat Prepa		Date nalyzed	LCS/LCSD Batc Number	h
099-12-695-1,001	Aqueous	GC 11	02/10	/11 02	/11/11	110210B02	
Parameter	<u>LCS %</u>	<u> KREC LCS</u>	D %REC	<u>%REC CL</u>	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	95		93	78-120	3	0-20	

RPD - Relative Percent Difference, CL - Control Limit



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Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico , CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 11-02-0642 EPA 5030C EPA 8260B

Project: ARCO 2112

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal		LCS/LCSD I Numbe	
099-12-703-1,597	Aqueous	GC/MS BB	02/10/11	02/11/	/11	110210L	03
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	RPD	RPD CL	<u>Qualifiers</u>
Benzene	105	105	80-120	73-127	0	0-20	
Carbon Tetrachloride	91	91	74-134	64-144	0	0-20	
Chlorobenzene	101	103	80-120	73-127	2	0-20	
1,2-Dibromoethane	96	98	79-121	72-128	2	0-20	
1,2-Dichlorobenzene	96	95	80-120	73-127	1	0-20	
1,2-Dichloroethane	108	108	80-120	73-127	0	0-20	
Ethylbenzene	100	101	80-120	73-127	1	0-20	
Toluene	104	105	80-120	73-127	1	0-20	
Trichloroethene	107	102	79-127	71-135	5	0-20	
Methyl-t-Butyl Ether (MTBE)	94	93	69-123	60-132	2	0-20	
Tert-Butyl Alcohol (TBA)	88	92	63-123	53-133	4	0-20	
Diisopropyl Ether (DIPE)	93	91	59-137	46-150	2	0-37	
Ethyl-t-Butyl Ether (ETBE)	91	90	69-123	60-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	90	90	70-120	62-128	0	0-20	
Ethanol	93	107	28-160	6-182	13	0-57	

Total number of LCS compounds: 15

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

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RPD - Relative Percent Difference, CL - Control Limit

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Glossary of Terms and Qualifiers



Work Order Number: 11-02-0642

<u>Qualifier</u>	Definition
AX	Sample too dilute to quantify surrogate.
BA	Relative percent difference out of control.
BA,AY	BA = Relative percent difference out of control. AY = Matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
BZ	Sample preserved improperly.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
DU	Insufficient sample quantity for matrix spike/dup matrix spike.
ET	Sample was extracted past end of recommended max. holding time.
ET	Sample was extracted past end of recommended maximum holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GR	Internal standard recovery is outside method recovery limit.
IB	CCV recovery abovelimit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibran. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG,AY	LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected.
LH,AY	LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected.
LM,AY	LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	interference suspected.
LN,AY	LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix
	interference suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
LW	Quantitation of unknown hydrocarbon(s) in sample based on gasoline.
LX	Quantitation of unknown hydrocarbon(s) in sample based on diesel.
MB	Analyte present in the method blank.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.
SG	A silica gel cleanup procedure was performed.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

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Atlantic Richfield Company	Laborat	tory Mar	nag	'em	ieni	t Pi	rog	rai	n L	.aM	PC	Cha	in c	of C	ust	ody	y Re	eco	rd			h	42		Page_	<u> </u>	of
Company	BP/ARC Pro		ARC	<u>CO 2</u>	<u>112</u>									Req				-	_				-	Rush ⁻	ΓΑΤ: Υε	÷s	No_X_
A BP affiliated company	BP/ARC Fac	ility No:										2112		Lab	Work	(Ord	er Nu	mbe	r: _	_							
Lab Name: Calscience			BP//	ARC	Facilit	y Add	dress:		1260) Park :	Street	t						Consi	ultant/C	ontra	ctor:		Broad	dbent & Assoc	iates, Inc		
Lab Address: 7440 Lincoln Way			City,	, Stat	te, ZIP	' Cod	e:		Alam	neda, C	CA							Consultant/Contractor Project No: 06-88-616-401-880									
Lab PM: Richard Villafania			Lead	d Reç	gulator	ry Ag	ency:		ACE	н								Address: 1324 Mangrove Ave. Ste. 212, Chico, CA 95926									
Lab Phone: 714-895-5494			Calif	fornia	a Globa	al ID	No.:		T060	001000	083							Cons	ultant/C	ontra	ctor Pl	M:	Tom '	Venus			
Lab Shipping Accnt:		9225	Enfo	os Pro	oposal	l No:			005Y	(2-000	1							Phon	e: 5	30-56	6-140	0					
Lab Bottle Order No:			Acco	ountir	ng Mo	de:		Pro	vision	<u>X</u>	00	C-BU		000	C-RM			Email	EDD T	o: t	venus	@bro	oadbe	entinc.com			
Other Info:			Stag	je:	Exec	ute (4	4)	Ac	ctivity:	Proj	ect S	Spen	d (80))	_			Invoid	e To:		BP/A	RC	x	Contr	ractor		
BP/ARC EBM: Chuck Carmel				Ма	trix		No	. Coi	ntain	iers /	Pres	ervat	ive			F	Requ	estec	Anal	/ses				Repo	rt Type (& QC Le	∍vel
EBM Phone:							s																		Standa	ard <u>X</u>	
EBM Email:							Containers								_	()		6						Full Da	ta Packag	ge	
Lab Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor		Total Number of Con	Unpreserved	H₂SO₄	HNO3	нсі	Methanol		GRO (8015)	BTEX (8260)	5 Oxys (8260)	EDB (8260)	1,2-DCA (8260)	Ethanol (8260)					Note: if sample Sample" in cor and initial any	mments ar	cted, indicand single-st	trike out
L A-1	110208	1415		х			6				X			х	х	х	х	Х	х								
Z A-2		1055		x			6				x			х	х	х	х	х	х						,		
3 A-3		1317		х			6				X			x	х	х	х	х	х								
4 A-4		1350		х	\square	Τ	6				x			х	х	х	х	х	х								
S A-5		1130		х			6				×			х	х	х	х	х	х								
6 AR-1		1245		x		Т	6				x			x	х	х	х	х	х					ſ			
7 AR-2		ころ		x			6				X			х	х	х	х	х	х								
	Ì				\square																						
					\square	Π																				<u> </u>	
🌾 ТВ - 2112 -	110208			Y	\Box	Т	1											·									
Sampler's Name: Eric Farry		-			Re	əlinq	luish	ed E	3y / A	ffilia	tion			Da	nte	Ti	ne			Acce	pted	Ву	/ Affi	iliation		Date	Time
Sampler's Company: BA			-	-1	n	2				<u>,</u>				1102	G)	Ga	x								\neg		ag
Shipment Method: GC	Ship Date:))(77.09		-																		7		Lat	2	Tiolii	age 12
Shipment Tracking No: 1066103	ς [-	•			11	1				0
Special Instructions:																											- 14

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No

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<u>.</u>

Temp Blank: Yes / No

Trip Blank: Yes / No _°F/C

MS/MSD Sample Submitted: Yes / No

Page 13 of 14

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DATE 0 09 COMPANY ADDRESS		SHIPPING AIR BILL SOLDER STRITE OUERINIGHT SHIPPING AIR BILL PACKAGE INFORMATION ACKAGE (WT) C
ADDRESS CITY SENDERS NAME COMPANY	STE/ ROOM ZIP CODE 95 (98 PHONE 778-2017-7994	1-800-322-5555 DECLARED VALUE \$ WWW.GSO.COM COD AMOUNT \$ DELIVERY PRIORITY SERVICE OVERNIGHT BY 10:30 AM BY 8:00 AM 'DELIVERY TIMES MAY BE LATER IN SOME AREAS - CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE GYPER
ADDRESS HELCILM WAY	PHONE NUMBER	6 RELEASE SIGNATURE
YOUR INTERNAL BILLING REFERENCE WILLAPPEAB ON YOUR INVOICE	STE/ ROOM ZIP CODE	B PICK UP INFORMATION
TRUCTIONS		9 GSO TRACKING NUMBER 106840351

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Page 14 of
WORK ORDER #: 11-02- 0 6 4
SAMPLE RECEIPT FORM Cooler (of
CLIENT: <u>Broadbert</u> DATE: <u>02/10/11</u>
TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)
Temperature <u>3</u> • <u>2</u> °C + 0.5 °C (CF) = <u>3</u> • <u>7</u> °C ⊡ Blank □ Sample
□ Sample(s) outside temperature criteria (PM/APM contacted by:).
□ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
☐ Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Initial:
CUSTODY SEALS INTACT:
☑ Cooler □ □ No (Not Intact) □ Not Present □ N/A Initial:
□ Sample □ □ No (Not Intact) ☑ Not Present Initial:
SAMPLE CONDITION: Yes No N/A
Chain Of Custody (COC) decument(a) reactive dwith several $-$
COC document(s) received complete
□ No analysis requested. □ Not relinquished. □ No date/time relinquished.
Sampler's name indicated on COC.
Sample container label(s) consistent with COC
Sample container(s) intact and good condition
Proper containers and sufficient volume for analyses requested
Analyses received within holding time
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours
Proper preservation noted on COC or sample container $ abla \qquad \square \qquad \square$
□ Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace
Tedlar bag(s) free of condensation
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve () □EnCores [®] □TerraCores [®] □
Water: □VOA ☑VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □1AGB □1AGBna₂ □1AGBs
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs □1PB □500PB □500PBna
□250PB □250PBn □125PB □125PBznna □100PJ □100PJna₂ □ □ □ □
Air: Trip Blank Lot#: //0/2/A Labeled/Checked by:

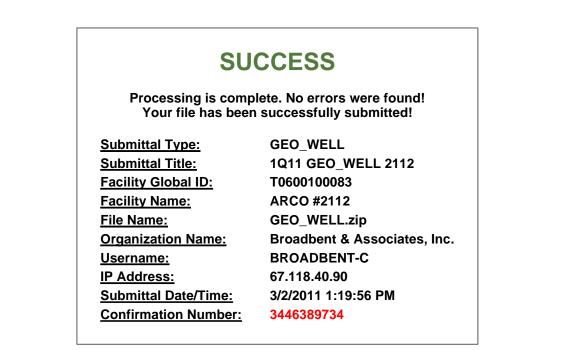
SOP	T100	_090	(09/	13/10)
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APPENDIX D

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE



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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS								
Processing is complete. No errors were found! Your file has been successfully submitted!								
Submittal Type:	EDF - Monitoring Report - Semi-Annually							
Submittal Title:	1Q11 GW Monitoring							
Facility Global ID:	T0600100083							
Facility Name:	ARCO #2112							
File Name:	11020642.zip							
Organization Name:	Broadbent & Associates, Inc.							
Username:	BROADBENT-C							
IP Address:	67.118.40.90							
Submittal Date/Time:	3/2/2011 1:19:02 PM							
Confirmation Number:	2063908398							
	VIEW QC REPORT							

VIEW DETECTIONS REPORT

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