Atlantic Richfield Company

Shannon Couch
Operations Project Manager

PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3804
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E-Mail: shannon.couch@bp.com

RECEIVED

2:32 pm, Nov 01, 2012

Alameda County
Environmental Health

October 26, 2012

Re: Third Quarter 2012 Status Report
Atlantic Richfield Company Service Station #601
712 Lewelling Boulevard, San Leandro, California
ACEH Case #RO0000309

"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,

Shannon Couch
Operations Project Manager

Attachment

BROADBENT
875 Cotting Ln., Suite G, Vacaville, CA 95688
[T] 707-455-7290 [F] 707-455-7295
broadbentinc.com

October 26, 2012 Project No. 06-88-605

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

Attn.: Ms. Shannon Couch

Re: Third Quarter 2012 Monitoring Report, Atlantic Richfield Company Station #601,
712 Lewelling Boulevard, San Leandro, Alameda County, California;
ACEH Case #RO0000309

Dear Ms. Couch:

Attached is the *Third Quarter 2012 Monitoring Report* for Atlantic Richfield Company Station #601 located at 712 Lewelling Boulevard, San Leandro, California (Site). Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES, INC.

Alexander J. Martinez
Senior Staff Geologist

Kristene Tidwell, P.G., C.H.G.
Senior Geologist

PROFESSIONAL GEOLOGIST
KRISTENE TIDWELL
No. 969
CERTIFIED HYDRO GEOLOGIST
STATE OF CALIFORNIA
Exp 12/31/12

enclosures

cc: Ms. Dilan Roe, Alameda County Environmental Health (submitted via ACEH ftp site)
Mr. Karl Busche, City of San Leandro (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

THIRD QUARTER 2012
MONITORING REPORT
ATLANTIC RICHFIELD COMPANY STATION #601
SAN LEANDRO, CALIFORNIA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Third Quarter 2012 Monitoring Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #601 located in San Leandro, Alameda County, California. Monitoring activities at the site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	Station #601 / 712 Lewelling Boulevard, San Leandro, California
Client Project Manager / Title:	Ms. Shannon Couch / Operations Project Manager
Broadbent Contact:	Ms. Kristene Tidwell, P.G., C.H.G.
Broadbent Project No.:	06-88-605
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000309
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 (Third Quarter 2012):

1. Submitted *Second Quarter 2012 Quarterly Status Report* on July 17, 2012.
2. Broadbent conducted Third Quarter groundwater sampling/monitoring on July 24, 2012. Station #601work coordinated with Former Shell Station #129460 monitoring event.

WORK SCHEDULED FOR NEXT QUARTER (Fourth Quarter 2012):

1. Submit *Third Quarter 2012 Quarterly Monitoring Report* (contained herein).
2. No environmental work is scheduled for Fourth Quarter 2012.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	MW-1 through MW-3 and MW-8 through MW-19	(1Q & 3Q)
Groundwater sample collection:	MW-1, MW-3, MW-10, MW-16, MW-17, and MW-18	(1Q & 3Q)
	MW-2, MW-8, MW-9, MW-14, MW-15, and MW-19	(3Q)
Biodegradation indicator parameter monitoring:	None	

QUARTERLY RESULTS SUMMARY:

LNAPL

LNAPL observed this quarter:	No	(yes\no)
LNAPL recovered this quarter:	N/A	(gal)
Cumulative LNAPL recovered:	N/A	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	6.04 ft (MW-3) to 9.49 ft (MW-14)	(ft below TOC)
Gradient direction:	Southwest	(compass direction)
Gradient magnitude:	0.003	(ft/ft)
Average change in elevation:	- 0.59	(ft since last measurement)

Laboratory Analytical Data

Summary: Analytical results are indicated below:

- GRO was detected in five wells with a maximum concentration of 9, 500 µg/L in well MW-3
- Benzene was detected in three wells with a maximum concentration of 83 µg/Lin well MW-17.
- MTBE was detected in five wells with a maximum concentration of 3.6 µg/L in well MW-9
- Ethylbenzene was in four wells with a maximum

concentration of 500 µg/L in well MW-3.
- Toluene was detected in four wells with a maximum concentration of 11 µg/L in well MW-16
- Total Xylenes was detected in four wells with a maximum concentration of 310 µg/L in well MW-16

ACTIVITIES CONDUCTED & RESULTS:

Third Quarter 2012 groundwater monitoring was conducted on July 24, 2012 by Broadbent personnel in accordance with the monitoring plan summary detailed above. No irregularities were noted during water level gauging. Light Non-Aqueous Phase Liquid (LNAPL) was not noted to be present in the wells monitored during this event; however, a light sheen was observed in well MW-1. Depth to water measurements ranged from 6.04 ft at MW-3 to 9.49 ft at MW-14. Resulting groundwater surface elevations ranged from 15.28 ft at MW-10 to 16.78 ft at MW-13. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater gradient to the southwest at approximately 0.003 ft/ft. Field methods used during groundwater monitoring are provided in Appendix A. Field data sheets and Non-Hazardous Waste Data Form are included in Appendix B. A Site Location Map is presented as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Groundwater sampling occurred on July 24, 2012 were consistent with the current monitoring schedule. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Laboratories, Inc. of Irvine, California for analysis of GRO, by EPA Method 8015M; for BTEX, MTBE, ETBE, TAME, DIPE, EDB, 1,2-DCA, TBA and Ethanol by EPA Method 8260. The sample from well MW-1 was also analyzed for SVOCs by EPA Method 8270. No significant irregularities were noted from sample analysis. The laboratory analytical report, including chain-of-custody documentation, is provided in Appendix C.

Groundwater monitoring laboratory analytical results are summarized in Tables 1 and 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 E.

Review of historical groundwater results indicate that the highest concentrations of petroleum hydrocarbons occur near the former and existing Under Ground Storage Tanks (UST), pump islands and the former waste oil tank. Drawings 3 and 4 show isoconcentration plumes for GRO and benzene respectively, which appear to encapsulate a majority of the wells sampled located onsite. Concentrations in wells MW-1, MW-3 and MW-16 through MW-18 showed detections where GRO increased in wells MW-1, MW-16 and MW-18 and decreased in MW-3 and MW-17. Concentrations of benzene increased in wells MW-1, MW-3, MW-16, and MW-18.

Wells down gradient from the existing plumes appear to be unaffected by the GRO and benzene concentrations present in the other wells. However, low concentrations of MTBE were detected in wells MW-8 through MW-10, and MW-15 and also detected in up gradient well MW-18.

DISCUSSION:

Groundwater levels were between historic minimum and maximum elevations for all wells. Groundwater elevations yielded a potentiometric groundwater gradient to the southwest at approximately 0.003 ft/ft, generally consistent with the historic gradient data presented in Table 3.

This event's detected analytical concentrations were within the historic minimum and maximum ranges recorded for each well. Concentrations of petroleum hydrocarbons vary seasonably, but appear to an overall decreasing trend. Recent data is consistent with these apparent trends.

Groundwater levels in many Site wells are currently above the top of their respective screen intervals. Ideally, groundwater samples would not be collected from wells where screens are flooded. In general, wells with flooded screens are older wells, where water levels over time may have risen. Additionally, these wells only periodically have flooded screens. For example, well MW-3 is one of the oldest Site wells, and has elevated residual petroleum concentrations. The screen in this well is periodically flooded, with the concentrations noted during events when the screen is not flooded are comparable to those where the screen is flooded. Additionally, data from wells with lower hydrocarbon concentrations is comparable to site wells without flooded screens. For these reasons, the data reported herein appears valid despite the occurrence of flooded screens at the Site.

RECOMMENDATIONS:

No environmental work activities are scheduled to be conducted at the Site during the Fourth Quarter 2012. The next quarterly monitoring event is scheduled for the First Quarter 2013. Unless directed by ACEH, no change to the monitoring program at Station #601 is presently deemed warranted or recommended.

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, Station #601, 712 Lewelling Boulevard, San Leandro, California
Drawing 2:	Groundwater Elevation Contours and Analytical Summary Map, July 24, 2012
Drawing 3:	GRO Isoconcentration Contour Map
Drawing 4:	Benzene Isoconcentration Contour Map
Drawing 5:	MTBE Isoconcentration Map
Table 1:	Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Table 2:	Summary of Fuel Additives Analytical Data
Table 3:	Historic Groundwater Gradient – Direction and Magnitude
Appendix A:	Field Methods
Appendix B:	Field Data Sheets and Non-Hazardous Waste Data Form
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	GRO:	Gasoline Range Organics (C6-12)
ARC:	Atlantic Richfield Company	LNAPL:	Light Non-Aqueous Phase Liquid
BAI:	Broadbent & Associates, Inc.	MTBE:	Methyl Tertiary Butyl Ether
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	SVOCs	Semi-Volatile Organic Compounds
1,2-DCA:	1,2-Dichloroethane	TAME:	Tert-Amyl Methyl Ether
DIPE:	Di-Isopropyl Ether	TBA:	Tert-Butyl Alcohol

EDB:	1,2-Dibromomethane
ft/ft:	feet per foot
gal:	gallons
TOC:	Top of Casing
µg/L:	Micrograms Per Liter

IMAGE SOURCE: USGS

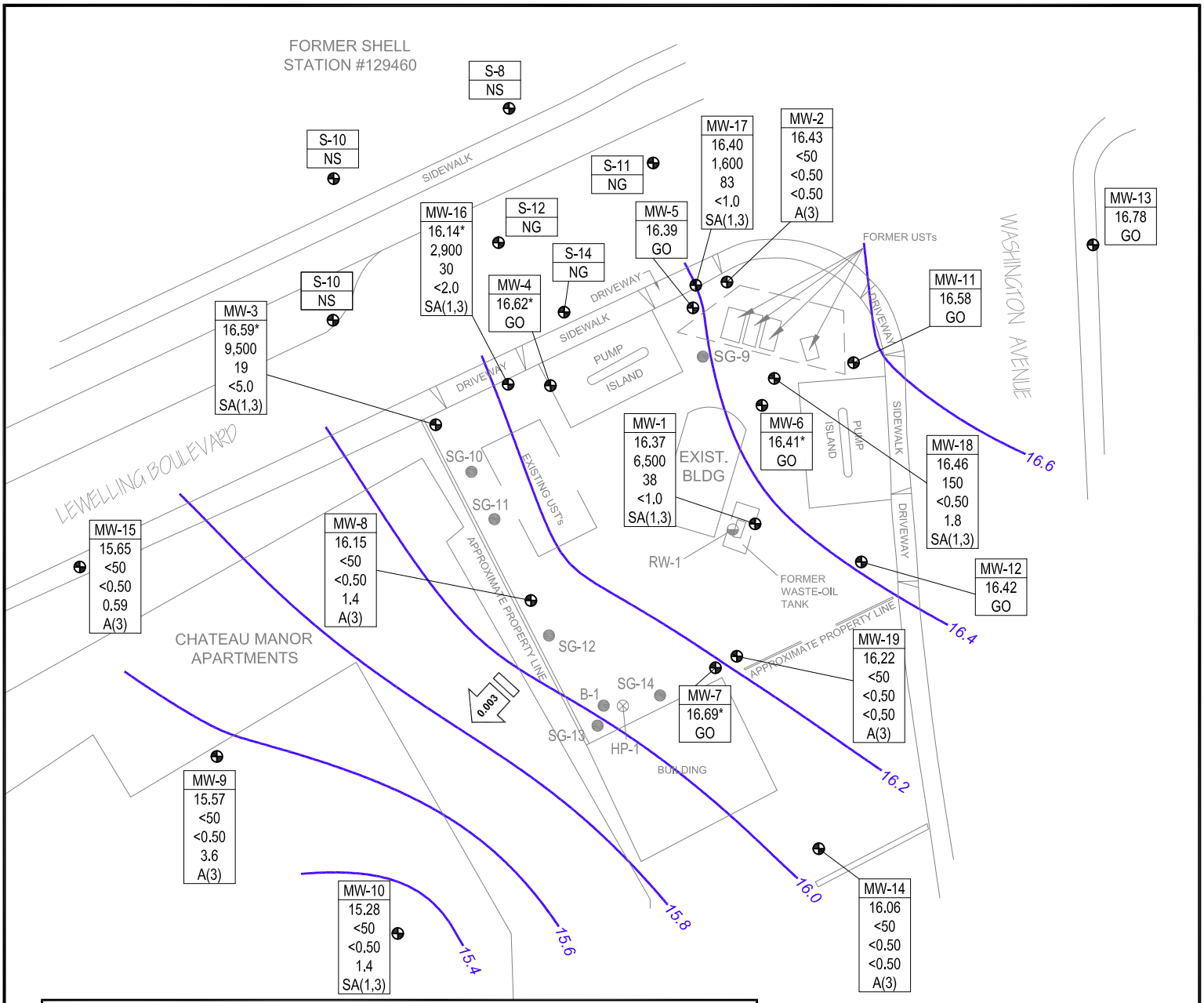
BROADBENT
1324 Mangrove Ave., Suite 212
Chico, California 95926

Project No.: 06-88-605 Date: 8/27/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

Site Location Map

Drawing
1



LEGEND

- Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- Hydropunch Location
- Grab-Groundwater Sample Location
- Groundwater Elevation Contour (Feet Above Site Datum)
- 0.003 — Groundwater Flow Direction and Magnitude (ft/ft)
- * Elevation Not Used in Contouring

WELL	Well Designation
ELEV	Groundwater Elevation (ft)
GRO BZ MTBE	GRO, Benzene, and MTBE Concentrations (µg/L)
A/SA	Sampling Frequency
A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NM/NS	Not Monitored/Not Sampled

N

0 60 120

SCALE (ft)

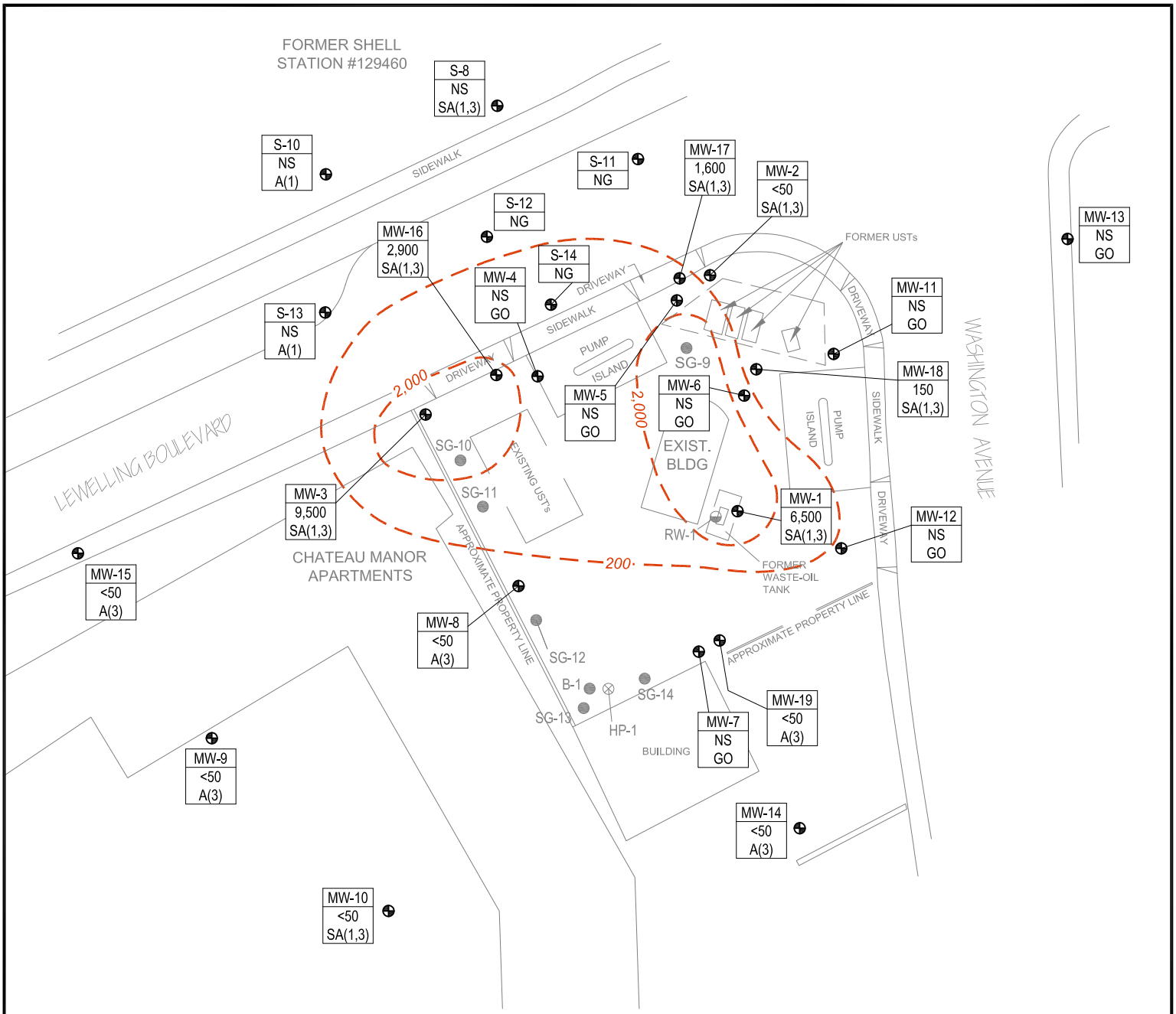
NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

BROADBENT
1324 Mangrove Ave., Suite 212
Chico, California 95926
Project No.: 06-88-605 Date: 8/27/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

Groundwater Elevation Contours and Analytical Summary Map
July 24, 2012

Drawing
2



LEGEND

- Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- Hydropunch Location
- Grab-Groundwater Sample Location
- GRO Isoconcentration (µg/L)

WELLID	Well Designation
GRO	GRO Concentration (µg/L)
A/SA	Sampling Frequency
A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NS	Not Sampled

N

0 60 120

SCALE (ft)

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

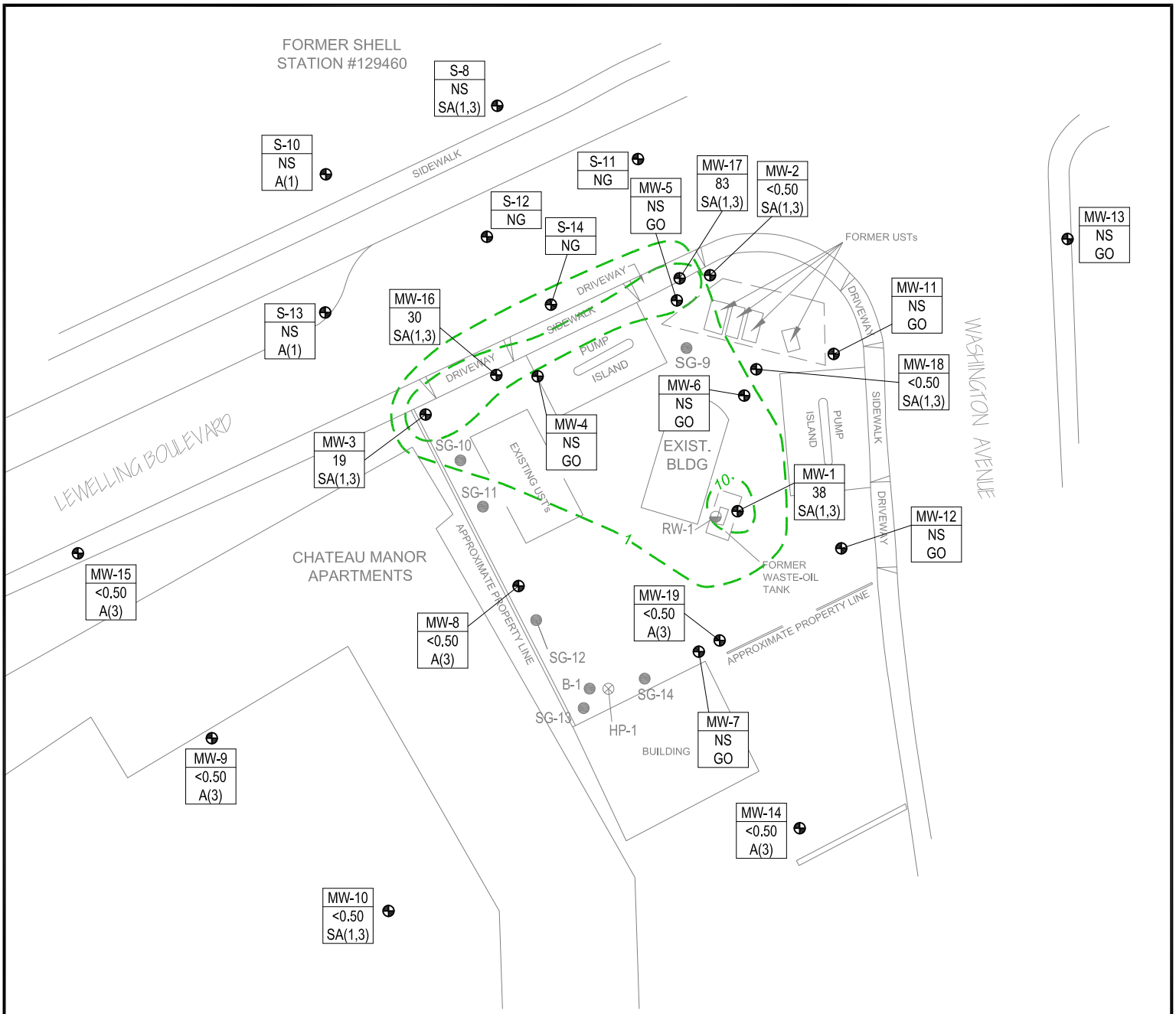
BROADBENT
1324 Mangrove Ave., Suite 212
Chico, California 95926

Project No.: 06-88-605 Date: 8/27/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

GRO Isoconcentration Contour Map
July 24, 2012

Drawing
3



LEGEND

- Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- Hydropunch Location
- Grab-Groundwater Sample Location
- Benzene Isoconcentration (µg/L)

WELLID – Well Designation
BZ – Benzene Concentration (µg/L)
A/SA – Sampling Frequency

A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NS	Not Sampled

N

0 60 120

SCALE (ft)

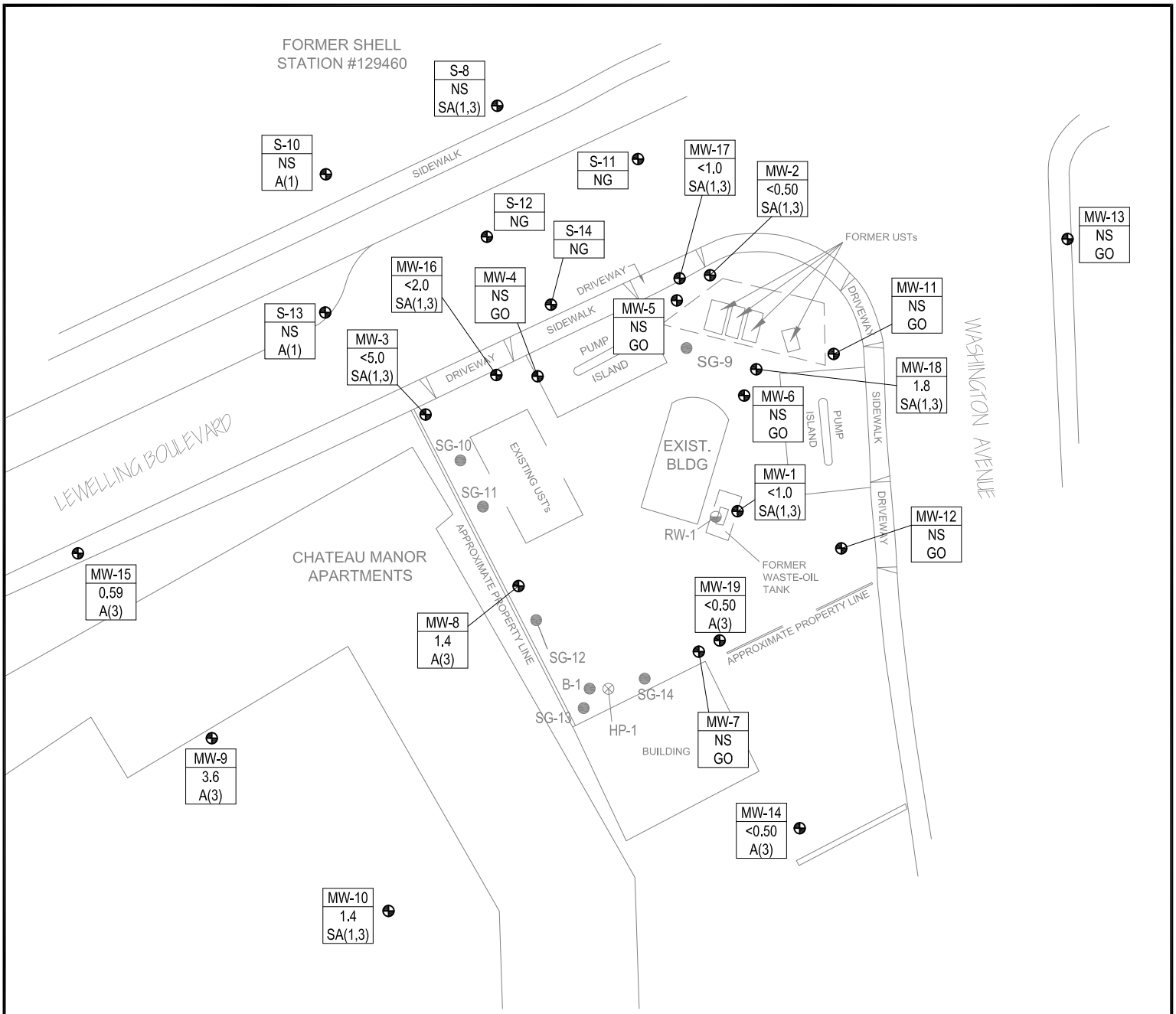
NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

BROADBENT
1324 Mangrove Ave., Suite 212
Chico, California 95926
Project No.: 06-88-605 Date: 8/27/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

Benzene Isoconcentration Contour Map
July 24, 2012

Drawing
4



LEGEND

- Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- Hydropunch Location
- Grab-Groundwater Sample Location
- MTBE Isoconcentration (µg/L)

WELLID	Well Designation
MTBE	MTBE Concentration (µg/L)
A/SA	Sampling Frequency
A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NS	Not Sampled

N

0 60 120

SCALE (ft)

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

BROADBENT
1324 Mangrove Ave., Suite 212
Chico, California 95926
Project No.: 06-88-605 Date: 8/27/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

MTBE Isoconcentration Contour Map
July 24, 2012

Drawing
5

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1																
1/9/1991	--	22.98	7.00	12.00	9.47	13.51	--	--	--	--	--	--	--	--	--	i, l
4/16/1991	--		7.00	12.00	6.12	16.86	--	--	--	--	--	--	--	--	--	a
6/10/1991	--	22.26	7.00	12.00	9.00	13.26	--	--	--	--	--	--	--	--	--	a
10/10/1991	--		7.00	12.00	9.73	12.53	--	--	--	--	--	--	--	--	--	i, l
3/23/1992	--		7.00	12.00	7.40	14.86	--	--	--	--	--	--	--	--	--	a
6/8/1992	--		7.00	12.00	9.08	13.18	--	--	--	--	--	--	--	--	--	i, l
9/15/1992	--		7.00	12.00	9.18	13.08	--	--	--	--	--	--	--	--	--	l
11/16/1992	--		7.00	12.00	9.09	13.17	--	--	--	--	--	--	--	--	--	i, l
2/16/1993	--		7.00	12.00	7.03	15.23	--	--	--	--	--	--	--	--	--	i, l
5/13/1993	--		7.00	12.00	8.08	14.18	--	--	--	--	--	--	--	--	--	i, l
8/17/1993	--		7.00	12.00	8.81	13.45	--	--	--	--	--	--	--	--	--	i, l
11/8/1993	--		7.00	12.00	9.22	13.04	--	--	--	--	--	--	--	--	--	i, l
2/14/1994	--		7.00	12.00	7.72	14.54	--	--	--	--	--	--	--	--	--	a
5/5/1994	--		7.00	12.00	8.47	13.79	--	--	--	--	--	--	--	--	--	a
8/4/1994	--		7.00	12.00	8.72	13.54	--	--	--	--	--	--	--	--	--	a
11/20/1994	--		7.00	12.00	7.81	14.45	--	--	--	--	--	--	--	--	--	a
3/17/1995	--		7.00	12.00	6.57	15.69	***120,000***	***5,300***	***370***	***1,500***	***13,000***	--	--	--	--	
6/1/1995	--		7.00	12.00	7.87	14.39	***250,000***	***7,100***	***950***	***3,500***	***21,000***	--	--	--	--	
8/31/1995	--		7.00	12.00	8.12	14.14	--	--	--	--	--	--	--	--	--	i, l
11/27/1995	--		7.00	12.00	8.42	13.84	***310,000***	***4,600***	***770***	***5,700***	***21,000***	--	--	--	--	
2/22/1996	--		7.00	12.00	6.01	16.25	***100,000***	***6,200***	***320***	***2,500***	***12,000***	*<1,000*	--	--	--	j
5/20/1996	--		7.00	12.00	7.03	15.23	***340,000***	***6,600***	***240***	***4,500***	***22,000***	*<1,000*	--	--	--	
8/26/1996	--		7.00	12.00	8.16	14.10	***210,000***	***7,900***	***320***	***3,400***	***15,000***	*<1,000*	--	--	--	
11/20/1996	--		7.00	12.00	7.84	14.42	***62,000***	***5,900***	*77*	***2,000***	***7,700***	*<300*	--	--	--	
3/24/1997	--	19.19	7.00	12.00	8.05	11.14	***170,000***	***6,500***	***<200***	***2,400***	***9,900***	*<1,000*	--	--	--	
5/23/1997	--		7.00	12.00	8.42	10.77	***83,000***	***6,200***	*84*	***2,500***	***9,000***	*<300*	--	--	--	
8/19/1997	--		7.00	12.00	8.65	10.54	***83,000***	***4,500***	*<100*	***2,200***	***8,100***	*<600*	--	--	--	
11/19/1997	--		7.00	12.00	8.54	10.65	***250,000***	***4,400***	***<500***	***3,800***	***9,900***	***<3,000***	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1 Cont.																
2/19/1998	--	19.19	7.00	12.00	5.57	13.62	***74,000***	***2,500***	*120*	***2,200***	***4,100***	*<300*	--	--	--	
4/23/1998	--		7.00	12.00	6.92	12.27	***210,000***	***2,700***	***<500***	***4,200***	***8,300***	***<3,000***	--	1.5	--	
7/27/1998	--		7.00	12.00	8.14	11.05	***73,000***	***2,100***	*88*	***2,600***	***4,600***	*<300*	--	1.0	--	
10/14/1998	--		7.00	12.00	8.58	10.61	***47,000***	***2,900***	***<500***	***2,300***	***3,900***	*<300*	--	1.5	--	
1/21/1999	--		7.00	12.00	7.48	11.71	***45,000***	***1,400***	*64*	***2,100***	***2,400***	*<300*	--	1.0	--	
5/6/1999	--		7.00	12.00	8.00	11.19	***41,000***	***1,900***	<20	***2,800***	***3,400***	*<120*	--	0.85	--	
8/23/1999	--		7.00	12.00	8.56	10.63	***26,000***	***1,700***	*52*	***1,600***	***1,500***	*<75*	--	0.72	--	
10/28/1999	--		7.00	12.00	8.92	10.27	***38,000***	***2,500***	35	***2,400***	***2,500***	*<200*	--	0.7	--	
2/4/2000	--		7.00	12.00	8.48	10.71	***19,000***	***960***	13	***1,200***	***860***	*<60*	--	2.11	--	
6/20/2000	--		7.00	12.00	8.20	10.99	***23,000***	***2,400***	*50*	***1,800***	***680***	*<200*	--	--	--	
9/29/2000	--		7.00	12.00	8.55	10.64	***23,600***	***2,880***	*<50*	***2,130***	***871***	*<250*	--	--	--	
12/17/2000	--		7.00	12.00	8.28	10.91	***21,600***	***1,980***	*<50*	***1,610***	***664***	*<250*	--	--	--	
3/28/2001	--		7.00	12.00	8.13	11.06	***19,800***	***2,310***	*<100*	***2,010***	***517***	*<500*	--	--	--	
6/20/2001	--		7.00	12.00	8.60	10.59	***17,000***	***2,200***	23	***1,800***	***320***	*100*	--	--	--	
9/22/2001	--		7.00	12.00	9.03	10.16	***20,000***	***2,900***	***<200***	***2,500***	***270***	*<1000*	--	--	--	
12/27/2001	--		7.00	12.00	7.93	11.26	***15,000***	***2,000***	*<50*	***1,700***	***140***	*290*	--	--	--	
3/15/2002	--		7.00	12.00	7.89	11.30	***12,000***	***1,800***	*<50*	***1,400***	*79*	*<250*	--	--	--	
4/18/2002	--		7.00	12.00	7.05	12.14	***16,000***	***3,000***	***180***	***2,600***	***320***	*<250*	--	1.26	--	
7/23/2002	NP		7.00	12.00	8.70	10.49	***14,000***	***3,200***	*<50*	***2,100***	*<50*	*<250*	--	0.9	6.8	e
10/16/2002	NP		7.00	12.00	9.12	10.07	***14,000***	***2,100***	<25	***2,000***	*31*	*<120*	--	0.8	7.1	d
1/23/2003	NP		7.00	12.00	7.45	11.74	***6,000***	***680***	*<50*	***800***	*<50*	*<50*	--	0.9	6.8	g
4/7/2003	--		7.00	12.00	7.68	11.51	***6,400***	***940***	6.6	***810***	11	*69*	--	1.1	6.9	
8/7/2003	--		7.00	12.00	8.75	10.44	***12,000***	***1,500***	27	***1,700***	*42*	*160*	--	--	6.4	a, k
10/23/2003	NP		7.00	12.00	8.96	10.23	***14,000***	***1,700***	<25	***1,600***	*<25*	*220*	1470	--	--	a
01/12/2004	P		7.00	12.00	7.99	11.20	***8,800***	***1,100***	<25	***980***	*<25*	*140*	1392	0.2	7.2	
04/20/2004	NP	24.78	7.00	12.00	8.87	15.91	***12,000***	***1,600***	<25	***920***	*36*	*84*	1780	1.5	6.6	a, r
07/01/2004	NP		7.00	12.00	9.31	15.47	***9,700***	***830***	<10	***580***	11	*100*	886	0.8	6.7	a
11/04/2004	NP		7.00	12.00	8.12	16.66	***7,800***	***650***	<5.0	***300***	12	*130*	1368	1.2	6.7	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1 Cont.																
01/10/2005	NP	24.78	7.00	12.00	7.06	17.72	***6,000***	***280***	<5.0	***130***	12	*12*	1280	1.05	6.9	
04/14/2005	NP		7.00	12.00	7.20	17.58	***4,500***	***160***	<5.0	***320***	17	<5.0	--	2.1	7.0	
04/20/2005	NP		7.00	12.00	7.05	17.73	--	--	--	--	--	--	630	--	6.6	q
08/02/2005	NP		7.00	12.00	7.39	17.39	***4,700***	***210***	<5.0	***210***	11	*15*	1180	--	6.8	
10/21/2005	NP		7.00	12.00	8.31	16.47	***9,700***	***600***	5.5	***210***	11	*64*	1500	1.45	6.8	
01/04/2006	NP		7.00	12.00	7.10	17.68	***5,000***	***240***	5.2	***120***	18	<5.0	939	0.97	7.2	
04/28/2006	P		7.00	12.00	6.69	18.09	***13,000***	***100***	<5.0	***270***	7.0	<5.0	--	1.81	7.1	a
8/4/2006	NP		7.00	12.00	8.30	16.48	***9,800***	***410***	5.0	***260***	<5.0	*14*	840	0.84	7.0	
10/23/2006	P		7.00	12.00	8.71	16.07	***12,000***	***440***	5.6	***260***	11	*16*	--	--	6.92	
1/15/2007	--		7.00	12.00	7.95	16.83	--	--	--	--	--	--	--	1.23	6.90	l
4/17/2007	P		7.00	12.00	8.20	16.58	***6,800***	***140***	<10	***280***	<10	*<10*	--	2.14	7.19	a
7/9/2007	P		7.00	12.00	8.73	16.05	***8,200***	***240***	<5.0	***220***	***180***	*81*	1020	2.42	7.15	a, s
10/1/2007	P		7.00	12.00	8.94	15.84	***13,000***	***260***	<5.0	***260***	13	*9.3*	1,340	2.46	7.19	a, s
1/7/2008	P		7.00	12.00	7.43	17.35	***8,000***	***56***	<5.0	***190***	7.3	<5.0	1,000	0.95	7.03	u
4/1/2008	NP		7.00	12.00	7.64	17.16	***9,300***	***70***	<20	***210***	<20	*<20*	1,220	2.22	7.04	i, l
7/23/2008	P		7.00	12.00	8.82	15.96	***19,000***	***190***	<20	***180***	<20	*<20*	1,480	2.2	6.99	
10/22/2008	P		7.00	12.00	9.13	15.65	***31,000***	***190***	<20	***210***	<20	*<20*	2,132	0.31	6.87	a
1/21/2009	P		7.00	12.00	8.72	16.06	***20,000***	***99***	<20	***190***	<20	*<20*	3,000	1.06	7.01	a
4/21/2009	P		7.00	12.00	7.68	17.10	***18,000***	***63***	<20	***50***	<20	*<20*	1,617	0.40	6.98	a, u
7/21/2009	P		7.00	12.00	8.91	15.87	***9,700***	***100***	<20	***120***	<20	*<20*	1,610	10.85	7.10	u, v
1/12/2010	P		7.00	12.00	8.30	16.48	***8,400***	***49***	<10	***85***	<10	*<10*	950	0.98	6.48	u
6/3/2010	--		7.00	12.00	7.67	17.11	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		7.00	12.00	8.43	16.35	***15,000***	***54***	<10	***90***	<10	*<10*	1,160	0.49	7.0	w
2/18/2011	NP		7.00	12.00	7.34	17.44	***7,900***	*11*	<2.0	***83***	2.8	<2.0	611	0.50	6.5	x (GRO)
8/25/2011	P		7.00	12.00	8.45	16.33	***10,000***	*27*	<2.5	***83***	3.2	<2.5	744	0.49	6.9	
1/17/2012	P		7.00	12.00	8.81	15.97	***3,100***	*27*	1.8	***48***	2.0	<1.0	444	0.36	6.65	x (GRO)
7/24/2012	P		7.00	12.00	8.41	16.37	***6,500***	*38*	2.5	***70***	2.9	<1.0	--	1.25	7.09	
MW-2																

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
7/18/1990	--	22.06	8.00	12.00	7.86	14.20	***35,000***	***3,800***	***2,900***	***690***	***3,600***	--	--	--	--	
10/15/1990	--		8.00	12.00	8.61	13.45	***6,400***	***650***	***290***	***110***	***560***	--	--	--	--	
1/9/1991	--		8.00	12.00	8.43	13.63	***13,000***	***1,500***	***970***	***390***	***1,500***	--	--	--	--	
4/16/1991	--		8.00	12.00	6.97	15.09	***54,000***	***5,200***	***9,000***	***1,500***	***7,700***	--	--	--	--	
6/10/1991	--	21.33	8.00	12.00	7.91	13.42	***26,000***	***3,000***	***2,500***	***880***	***4,200***	--	--	--	--	
10/10/1991	--		8.00	12.00	8.82	12.51	***10,000***	***1,600***	***910***	***280***	***1,400***	--	--	--	--	
3/23/1992	--		8.00	12.00	6.86	14.47	***33,000***	***4,100***	***5,000***	***1,100***	***5,300***	--	--	--	--	
6/8/1992	--		8.00	12.00	7.95	13.38	***18,000***	***1,200***	***980***	***330***	***1,800***	--	--	--	--	
9/15/1992	--		8.00	12.00	8.71	12.62	***13,000***	***430***	***500***	***340***	***1,800***	--	--	--	--	
11/16/1992	--		8.00	12.00	7.93	13.40	***13,000***	***900***	***940***	***300***	***1,400***	--	--	--	--	
2/16/1993	--		8.00	12.00	6.02	15.31	***20,000***	***1,800***	***1,200***	***530***	***2,700***	--	--	--	--	
5/13/1993	--		8.00	12.00	6.99	14.34	***13,000***	***1,000***	***470***	***370***	***1,900***	--	--	--	--	
8/17/1993	--		8.00	12.00	7.85	13.48	***9,100***	***770***	***160***	***310***	***1,500***	--	--	--	--	
11/8/1993	--		8.00	12.00	8.12	13.21	***9,200***	***380***	*62*	***130***	***630***	--	--	--	--	
2/14/1994	--		8.00	12.00	6.88	14.45	***8,700***	***670***	***370***	***50***	***1,400***	--	--	--	--	
5/5/1994	--		8.00	12.00	7.51	13.82	***5,600***	***390***	***140***	***120***	***480***	--	--	--	--	
8/4/1994	--		8.00	12.00	8.00	13.33	***2,300***	***180***	<2.5	<2.5	***230***	--	--	--	--	n
11/20/1994	--		8.00	12.00	6.86	14.47	***4,900***	***170***	***150***	***120***	***390***	--	--	--	--	
3/17/1995	--		8.00	12.00	6.12	15.21	***10,000***	***460***	*77*	***260***	***550***	--	--	--	--	
6/1/1995	--		8.00	12.00	6.56	14.77	***13,000***	***400***	*78*	***210***	***410***	--	--	--	--	
8/31/1995	--		8.00	12.00	7.18	14.15	***5,000***	***280***	18	***120***	***140***	*<50*	--	--	--	
11/27/1995	--		8.00	12.00	7.39	13.94	***3,200***	***230***	12	***77***	*90*	--	--	--	--	
2/22/1996	--		8.00	12.00	5.78	15.55	***11,000***	***290***	*67*	***190***	***330***	*<50*	--	--	--	
5/20/1996	--		8.00	12.00	6.27	15.06	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	12.00	7.30	14.03	--	--	--	--	--	--	--	--	--	
11/20/1996	--		8.00	12.00	7.28	14.05	--	--	--	--	--	--	--	--	--	
3/24/1997	--	21.12	8.00	12.00	7.11	14.01	***4,800***	***570***	6	***71***	*32*	*67*	--	--	--	
5/23/1997	--		8.00	12.00	7.44	13.68	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
8/19/1997	--	21.12	8.00	12.00	7.64	13.48	--	--	--	--	--	--	--	--	--	
11/19/1997	--		8.00	12.00	7.70	13.42	--	--	--	--	--	--	--	--	--	
2/19/1998	--		8.00	12.00	5.22	15.90	***2,000***	***160***	*50*	***66***	***230***	*25*	--	--	--	
4/23/1998	--		8.00	12.00	6.24	14.88	--	--	--	--	--	--	--	--	--	
7/27/1998	--		8.00	12.00	7.02	14.10	--	--	--	--	--	--	--	--	--	
10/14/1998	--		8.00	12.00	7.54	13.58	--	--	--	--	--	--	--	--	--	
1/21/1999	--		8.00	12.00	7.15	13.97	***1,700***	***84***	4	*31*	10	*13*	--	0.5	--	
5/6/1999	--		8.00	12.00	6.95	14.17	--	--	--	--	--	--	--	--	--	
8/23/1999	--		8.00	12.00	7.49	13.63	--	--	--	--	--	--	--	0.68	--	
10/28/1999	--		8.00	12.00	7.92	13.20	--	--	--	--	--	--	--	--	--	
2/4/2000	--		8.00	12.00	6.61	14.51	--	--	--	--	--	--	--	--	--	
6/20/2000	--		8.00	12.00	7.12	14.00	--	--	--	--	--	--	--	--	--	
9/29/2000	--		8.00	12.00	7.60	13.52	--	--	--	--	--	--	--	--	--	
12/17/2000	--		8.00	12.00	7.42	13.70	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.84	14.28	***838***	*18.1*	<5.0	7.63	5.98	*39.5*	--	--	--	
6/20/2001	--		8.00	12.00	7.66	13.46	--	--	--	--	--	--	--	--	--	
9/22/2001	--		8.00	12.00	8.08	13.04	--	--	--	--	--	--	--	--	--	
12/27/2001	--		8.00	12.00	6.48	14.64	--	--	--	--	--	--	--	--	--	
3/15/2002	--		8.00	12.00	6.84	14.28	100	<0.5	<0.5	2.5	<0.5	*75*	--	--	--	
4/18/2002	--		8.00	12.00	6.19	14.93	--	--	--	--	--	--	--	--	--	
7/23/2002	--		8.00	12.00	7.73	13.39	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	12.00	8.10	13.02	--	--	--	--	--	--	--	--	--	
1/23/2003	P		8.00	12.00	6.52	14.60	***<5,000***	***<50***	*<50*	***<50***	*<50*	*95*	--	1.6	7.2	g
4/7/2003	--		8.00	12.00	7.22	13.90	--	--	--	--	--	--	--	--	--	
8/7/2003	--		8.00	12.00	7.84	13.28	--	--	--	--	--	--	--	--	--	
10/23/2003	P		8.00	12.00	7.95	13.17	***<250***	*<2.5*	<2.5	<2.5	4.2	*68*	--	--	--	m
01/12/2004	--		8.00	12.00	6.60	14.52	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.87	8.00	12.00	8.32	15.55	--	--	--	--	--	--	--	--	--	r

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
07/01/2004	P	23.87	8.00	12.00	8.96	14.91	72	<0.50	<0.50	<0.50	<0.50	*72*	--	2.1	6.9	o
11/04/2004	--		8.00	12.00	7.30	16.57	--	--	--	--	--	--	--	--	--	
01/10/2005	--		8.00	12.00	5.87	18.00	--	--	--	--	--	--	--	--	--	
04/14/2005	--		8.00	12.00	5.75	18.12	--	--	--	--	--	--	--	--	--	
08/02/2005	P		8.00	12.00	6.47	17.40	***1,300***	*4.3*	0.57	11	0.97	*12*	--	--	7.0	
10/21/2005	--		8.00	12.00	7.12	16.75	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	12.00	6.75	17.12	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	12.00	5.90	17.97	--	--	--	--	--	--	--	--	--	
8/4/2006	P		8.00	12.00	7.41	16.46	50	<0.50	<0.50	<0.50	<0.50	*7.9*	--	1.57	7.2	
10/23/2006	--		8.00	12.00	7.72	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		8.00	12.00	7.14	16.73	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	12.00	7.28	16.59	--	--	--	--	--	--	--	--	--	
7/9/2007	P		8.00	12.00	7.73	16.14	*110*	<0.50	<0.50	<0.50	<0.50	3.2	--	1.40	7.37	
10/1/2007	--		8.00	12.00	7.95	15.92	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	12.00	6.46	17.41	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	12.00	7.10	16.77	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		8.00	12.00	7.90	15.97	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	3.1	7.25	
10/22/2008	--		8.00	12.00	8.10	15.77	--	--	--	--	--	--	--	--	--	
1/21/2009	--		8.00	12.00	7.70	16.17	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	12.00	7.16	16.71	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		8.00	12.00	8.01	15.86	<50	<0.50	<0.50	<0.50	<0.50	0.83	--	11.67	7.47	v
1/12/2010	--		8.00	12.00	7.35	16.52	--	--	--	--	--	--	--	--	--	
6/3/2010	P		8.00	12.00	6.78	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	--	7.06	
7/22/2010	P		8.00	12.00	7.47	16.40	***420***	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.03	7.1	w
2/18/2011	--		8.00	12.00	6.71	17.16	--	--	--	--	--	--	--	--	--	
8/25/2011	P		8.00	12.00	7.40	16.47	***780***	<0.50	<0.50	0.79	<0.50	<0.50	--	1.05	7.2	x (GRO)
1/17/2012	--		8.00	12.00	8.01	15.86	--	--	--	--	--	--	--	--	--	
7/24/2012	P		8.00	12.00	7.44	16.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	0.81	7.36	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3																
7/18/1990	--	20.84	8.00	12.00	7.03	13.81	--	--	--	--	--	--	--	--	--	
10/15/1990	--		8.00	12.00	8.19	12.65	--	--	--	--	--	--	--	--	--	i, l
1/9/1991	--		8.00	12.00	7.46	13.38	--	--	--	--	--	--	--	--	--	i, l
4/16/1991	--		8.00	12.00	7.95	12.89	--	--	--	--	--	--	--	--	--	a
6/10/1991	--	20.11	8.00	12.00	7.14	12.97	--	--	--	--	--	--	--	--	--	a
10/10/1991	--		8.00	12.00	7.82	12.29	--	--	--	--	--	--	--	--	--	i, l
3/23/1992	--		8.00	12.00	5.75	14.36	--	--	--	--	--	--	--	--	--	a
6/8/1992	--		8.00	12.00	7.52	12.59	--	--	--	--	--	--	--	--	--	i, l
9/15/1992	--		8.00	12.00	8.01	12.10	--	--	--	--	--	--	--	--	--	i, l
11/16/1992	--		8.00	12.00	7.11	13.00	--	--	--	--	--	--	--	--	--	a
2/16/1993	--		8.00	12.00	5.93	14.18	--	--	--	--	--	--	--	--	--	i, l
5/13/1993	--		8.00	12.00	6.37	13.74	--	--	--	--	--	--	--	--	--	i, l
8/17/1993	--		8.00	12.00	7.00	13.11	--	--	--	--	--	--	--	--	--	i, l
11/8/1993	--		8.00	12.00	7.31	12.80	***430,000***	***4,100***	***14,000***	***6,400***	***37,000***	--	--	--	--	
2/14/1994	--		8.00	12.00	5.81	14.30	***85,000***	***4,200***	***12,000***	***2,500***	***16,000***	--	--	--	--	
5/5/1994	--		8.00	12.00	6.81	13.30	***560,000***	***4,600***	***14,000***	***5,300***	***40,000***	--	--	--	--	
8/4/1994	--		8.00	12.00	7.31	12.80	***64,000***	***4,200***	***7,600***	***1,700***	***12,000***	--	--	--	--	
11/20/1994	--		8.00	12.00	5.88	14.23	***80,000***	***4,700***	***9,700***	***2,400***	***15,000***	--	--	--	--	
3/17/1995	--		8.00	12.00	5.46	14.65	***370,000***	***4,800***	***12,000***	***5,800***	***34,000***	--	--	--	--	
6/1/1995	--		8.00	12.00	6.34	13.77	***270,000***	***6,000***	***11,000***	***5,200***	***28,000***	--	--	--	--	
8/31/1995	--		8.00	12.00	6.60	13.51	--	--	--	--	--	--	--	--	--	i, l
11/27/1995	--		8.00	12.00	6.76	13.35	***150,000***	***5,100***	***8,800***	***3,900***	***21,000***	--	--	--	--	
2/22/1996	--		8.00	12.00	5.14	14.97	***150,000***	***4,400***	***7,600***	***4,100***	***22,000***	***<3,000***	--	--	--	
5/20/1996	--		8.00	12.00	5.17	14.94	***410,000***	***4,700***	***8,000***	***6,300***	***36,000***	***<3,000***	--	--	--	
8/26/1996	--		8.00	12.00	7.04	13.07	***260,000***	***4,000***	***6,100***	***4,200***	***24,000***	***<2,000***	--	--	--	
11/20/1996	--		8.00	12.00	6.26	13.85	***190,000***	***3,200***	***5,800***	***3,300***	***20,000***	*<1,000*	--	--	--	
3/24/1997	--	22.99	8.00	12.00	6.94	16.05	***430,000***	***2,700***	***7,600***	***7,000***	***39,000***	***<5,000***	--	--	--	
5/23/1997	--		8.00	12.00	6.98	16.01	***130,000***	***2,100***	***4,300***	***3,500***	***19,000***	*<700*	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
8/19/1997	--	22.99	8.00	12.00	7.25	15.74	***100,000***	***2,000***	***3,200***	***<100***	***19,000***	*<600*	--	--	--	
11/19/1997	--		8.00	12.00	7.25	15.74	***93,000***	***1,700***	***2,400***	***2,800***	***16,000***	*<600*	--	--	--	
2/19/1998	--		8.00	12.00	5.24	17.75	***80,000***	***620***	***1,200***	***2,500***	***13,000***	*<600*	--	--	--	
4/23/1998	--		8.00	12.00	6.60	16.39	***130,000***	***1,500***	***2,400***	***3,500***	***18,000***	*<600*	--	3.5	--	
7/27/1998	--		8.00	12.00	7.00	15.99	***140,000***	***920***	***1,500***	***2,400***	***13,000***	*<600*	--	1.0	--	
10/14/1998	--		8.00	12.00	7.04	15.95	***300,000***	***1,200***	***2,400***	***5,700***	***32,000***	*970*	--	1.0	--	
1/21/1999	--		8.00	12.00	6.50	16.49	***120,000***	***860***	***1,500***	***2,600***	***14,000***	*<600*	--	0.5	--	
5/6/1999	--		8.00	12.00	6.90	16.09	***49,000***	***670***	***1,400***	***2,500***	***11,000***	*170*	--	1.03	--	
8/23/1999	--		8.00	12.00	6.53	16.46	***51,000***	***440***	***930***	***2,200***	***9,200***	*<150*	--	0.67	--	
10/28/1999	--		8.00	12.00	7.50	15.49	***1,400,000***	***830***	***4,100***	***15,000***	***78,000***	***<5,000***	--	0.77	--	
2/4/2000	--		8.00	12.00	6.21	16.78	<50	<0.5	<0.5	<0.5	<1	*650*	--	1.61	--	
6/20/2000	--		8.00	12.00	6.22	16.77	***45,000***	***670***	***990***	***2,400***	***12,000***	*<500*	--	--	--	
9/29/2000	--		8.00	12.00	7.20	15.79	***51,000***	***860***	***1,120***	***2,720***	***12,900***	*<250*	--	--	--	
12/17/2000	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.10	16.89	***43,500***	***804***	***<200***	***250***	***11,000***	*<1,000*	--	--	--	
6/20/2001	--		8.00	12.00	6.14	16.85	***62,000***	***1,000***	***850***	***2,800***	***13,000***	***<2,500***	--	--	--	
9/22/2001	--		8.00	12.00	7.24	15.75	***53,000***	***1,200***	***1,200***	***3,100***	***13,000***	*<1,000*	--	--	--	
12/27/2001	--		8.00	12.00	7.00	15.99	***44,000***	***860***	***840***	***2,300***	***10,000***	*<250*	--	--	--	
3/15/2002	--		8.00	12.00	7.02	15.97	***43,000***	***1,000***	***810***	***2,300***	***11,000***	*<250*	--	--	--	
4/18/2002	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	P		8.00	12.00	7.22	15.77	***45,000***	***750***	***570***	***2,100***	***10,000***	*<250*	--	1	8	d
10/16/2002	P		8.00	12.00	7.54	15.45	***42,000***	***780***	***620***	***2,500***	***11,000***	*<250*	--	1.4	7.7	d
1/23/2003	P		8.00	12.00	6.85	16.14	***68,000***	***580***	***500***	***3,300***	***16,000***	*<100*	--	1.3	7	g
4/7/2003	--		8.00	12.00	7.05	15.94	***48,000***	***620***	***450***	***2,200***	***11,000***	*<50*	--	1.4	6.9	
8/7/2003	--		8.00	12.00	6.89	16.10	***35,000***	***360***	***250***	***1,700***	***8,100***	*<100*	--	2.4	8.9	m
10/23/2003	P		8.00	12.00	7.05	15.94	***36,000***	***340***	***250***	***1,700***	***8,300***	*<25*	--	--	--	m
01/12/2004	NP		8.00	12.00	5.93	17.06	***1,100***	*<5.0*	<5.0	<5.0	*34*	<5.0	--	3.2	9.5	
04/20/2004	P	22.63	8.00	12.00	7.60	15.03	***30,000***	***210***	***170***	***1,700***	***7,300***	*<50*	--	1.6	7.8	r

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
07/01/2004	P	22.63	8.00	12.00	7.76	14.87	***33,000***	***190***	***190***	***1,300***	***6,300***	*<50*	--	2.3	7.4	a
11/04/2004	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
11/23/2004	P		8.00	12.00	6.75	15.88	***32,000***	***150***	***160***	***1,400***	***7,100***	*<50*	--	1.2	7.5	
01/10/2005	P		8.00	12.00	4.75	17.88	***34,000***	***180***	***150***	***1,400***	***6,900***	*<100*	--	0.7	7.0	
04/14/2005	P		8.00	12.00	5.60	17.03	***26,000***	***170***	***200***	***1,500***	***5,000***	*<25*	--	2.3	7.0	
08/02/2005	P		8.00	12.00	5.97	16.66	***41,000***	***260***	***190***	***1,800***	***8,600***	*<25*	--	--	7.0	
10/21/2005	P		8.00	12.00	6.55	16.08	***39,000***	***230***	***160***	***1,500***	***7,400***	*<50*	--	1.05	7.0	
01/04/2006	P		8.00	12.00	4.57	18.06	***33,000***	***160***	***150***	***1,700***	***7,500***	*<25*	--	0.97	7.1	
04/28/2006	P		8.00	12.00	5.35	17.28	***42,000***	***130***	*110*	***1,700***	***6,500***	*<25*	--	1.39	7.0	a
8/4/2006	P		8.00	12.00	5.97	16.66	***38,000***	***180***	*130*	***1,500***	***7,000***	*<25*	--	0.47	6.9	
10/23/2006	P		8.00	12.00	6.66	15.97	***48,000***	***180***	*120*	***1,500***	***7,100***	<5.0	--	--	6.98	
1/15/2007	P		8.00	12.00	6.11	16.52	***36,000***	***130***	*130*	***1,900***	***8,400***	*<25*	--	0.97	7.25	
4/17/2007	P		8.00	12.00	6.13	16.50	***73,000***	***120***	***140***	***2,200***	***9,900***	*<25*	--	1.13	7.42	a
7/9/2007	P		8.00	12.00	6.82	15.81	***42,000***	***110***	*110*	***1,700***	***7,100***	*<25*	--	1.38	7.28	a
10/1/2007	P		8.00	12.00	6.85	15.78	***48,000***	***100***	*100*	***1,700***	***7,700***	*<25*	--	1.65	7.66	a, o, t
1/7/2008	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
4/1/2008	P		8.00	12.00	8.95	13.68	***160,000***	***<100***	*<100*	***1,700***	***7,400***	*<100*	--	0.96	7.03	a
7/23/2008	NP		8.00	12.00	7.00	15.63	***33,000***	*39*	*47*	***1,100***	***5,000***	<5.0	--	1.04	6.93	
10/22/2008	P		8.00	12.00	7.15	15.48	***98,000***	***<120***	*<120*	***2,000***	***8,000***	*<120*	--	1.06	7.09	a
1/21/2009	P		8.00	12.00	6.79	15.84	***51,000***	***<100***	*<100*	***2,300***	***9,000***	*<100*	--	0.58	7.08	a
4/21/2009	P		8.00	12.00	5.80	16.83	***720,000***	***52***	*<50*	***790***	***7,000***	*<50*	--	1.38	7.14	a
7/21/2009	P		8.00	12.00	6.84	15.79	***36,000***	*29*	33	***1,300***	***4,800***	*<25*	--	11.15	7.35	v
1/12/2010	P		8.00	12.00	6.19	16.44	***25,000***	*25*	24	***1,200***	***3,900***	*<10*	--	1.07	6.63	
6/3/2010	P		8.00	12.00	5.64	16.99	***26,000***	*<25*	<25	***820***	***2,900***	*<25*	--	1.16	6.8	
7/22/2010	P		8.00	12.00	6.37	16.26	***42,000***	*<25*	<25	***1,100***	***3,500***	*<25*	--	0.38	6.9	
2/18/2011	P		8.00	12.00	5.03	17.60	***29,000***	*<25*	<25	***1,000***	***2,800***	*<25*	--	0.70	6.50	
8/25/2011	P		8.00	12.00	5.96	16.67	***20,000***	*<20*	<20	***850***	***1,600***	*<20*	--	0.66	6.8	
1/17/2012	P		8.00	12.00	7.12	15.51	***14,000***	*<10*	<10	***330***	***640***	*<10*	--	0.26	7.01	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
7/24/2012	P	22.63	8.00	12.00	6.04	16.59	***9,500***	*19*	6.8	***500***	***140***	<5.0	--	1.25	7.15	
MW-4																
6/10/1991	--	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		6.00	9.00	--	--	***15,000***	***5,300***	***1,500***	***470***	***1,300***	--	--	--	--	b
3/23/1992	--		6.00	9.00	--	--	***24,000***	***5,600***	***4,000***	***580***	***3,100***	--	--	--	--	b
6/8/1992	--		6.00	9.00	--	--	***5,700***	***2,000***	***170***	***92***	***270***	--	--	--	--	b
9/15/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		6.00	9.00	7.10	13.65	***12,000***	***920***	***1,100***	***130***	***750***	--	--	--	--	
5/13/1993	--		6.00	9.00	7.02	13.73	***19,000***	***2,900***	***2,800***	***360***	***1,900***	--	--	--	--	
8/17/1993	--		6.00	9.00	7.85	12.90	***8,100***	***1,600***	***1,300***	***170***	***730***	--	--	--	--	
11/8/1993	--		6.00	9.00	--	--	***2,000***	***540***	*110*	10	***240***	--	--	--	--	b
2/14/1994	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
5/5/1994	--		6.00	9.00	7.73	13.02	***1,900***	***510***	*78*	*31*	***150***	--	--	--	--	
8/4/1994	--		6.00	9.00	7.83	12.92	***1,300***	***360***	17	<5	***190***	--	--	--	--	n
11/20/1994	--		6.00	9.00	7.73	13.02	<50	*2.9*	0.5	<0.5	1.4	--	--	--	--	
3/17/1995	--		6.00	9.00	6.65	14.10	***16,000***	***1,800***	***970***	***310***	***2,500***	--	--	--	--	
6/1/1995	--		6.00	9.00	7.25	13.50	***16,000***	***2,800***	***870***	***380***	***2,700***	--	--	--	--	
8/31/1995	--		6.00	9.00	7.75	13.00	***9,000***	***2,000***	***270***	***270***	***1,400***	*<100*	--	--	--	
11/27/1995	--		6.00	9.00	7.87	12.88	***3,800***	***890***	*130*	***130***	***550***	--	--	--	--	
2/22/1996	--		6.00	9.00	7.29	13.46	***940***	***150***	*82*	19	***130***	*<20*	--	--	--	
5/20/1996	--		6.00	9.00	7.30	13.45	***6,700***	***1,100***	***330***	***120***	***1,100***	*<100*	--	--	--	
8/26/1996	--		6.00	9.00	7.57	13.18	***14,000***	***2,400***	***510***	***350***	***2,100***	*<100*	--	--	--	
11/20/1996	--		6.00	9.00	7.89	12.86	***420***	***55***	17	11	*62*	<3	--	--	--	
3/24/1997	--	22.38	6.00	9.00	6.90	15.48	***6,800***	***620***	***150***	***81***	***1,300***	*<50*	--	--	--	
5/23/1997	--		6.00	9.00	7.80	14.58	***9,000***	***1,300***	***240***	***200***	***1,600***	*<60*	--	--	--	
8/19/1997	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		6.00	9.00	--	--	***3700***	***600***	*93*	***120***	***710***	*<60*	--	--	--	b, j

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
2/19/1998	--	22.38	6.00	9.00	6.78	15.60	***1,800***	***93***	*51*	29	***420***	*110*	--	--	--	
4/23/1998	--		6.00	9.00	6.47	15.91	***6,500***	***700***	*110*	***180***	***1,300***	*93*	--	0.5	--	
7/27/1998	--		6.00	9.00	7.22	15.16	***10,000***	***1,400***	***140***	***290***	***1,900***	*<120*	--	1.5	--	
10/14/1998	--		6.00	9.00	7.60	14.78	***6,500***	***900***	*63*	***200***	***1,200***	*63*	--	1	--	
1/21/1999	--		6.00	9.00	7.43	14.95	***1,700***	***140***	22	***56***	***320***	*13*	--	0.5	--	
5/6/1999	--		6.00	9.00	6.55	15.83	***3,300***	***250***	36	***73***	***890***	*41*	--	1.28	--	
8/23/1999	--		6.00	9.00	7.16	15.22	***7,400***	***500***	*73*	***230***	***1,700***	*57*	--	0.89	--	
10/28/1999	--		6.00	9.00	8.28	14.10	***370***	*41*	5.7	14	*52*	*16*	--	0.92	--	
2/4/2000	--		6.00	9.00	8.23	14.15	***310***	*33*	7.5	11	*65*	*8*	--	2.43	--	
6/20/2000	--		6.00	9.00	6.46	15.92	***2,700***	***210***	20	***94***	***520***	*46*	--	--	--	
9/29/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	9.00	7.49	14.89	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		6.00	9.00	7.21	15.17	***13,000***	***690***	***170***	***330***	***1,400***	*110*	--	--	--	
9/22/2001	--		6.00	9.00	7.43	14.95	***6,700***	***650***	*110*	***410***	***1,800***	*100*	--	--	--	
12/27/2001	--		6.00	9.00	7.32	15.06	***1,200***	***47***	15	***46***	***250***	*15*	--	--	--	
3/15/2002	--		6.00	9.00	7.43	14.95	***490***	*34*	7.4	26	***110***	*12*	--	--	--	
4/18/2002	--		6.00	9.00	7.00	15.38	<50	0.57	0.83	<0.5	1.1	3.7	--	--	--	
7/23/2002	NP		6.00	9.00	7.70	14.68	***820***	***80***	12	23	***190***	*41*	--	2.2	7.3	d
10/16/2002	NP		6.00	9.00	7.75	14.63	***2,000***	***220***	25	***140***	***570***	*<25*	--	1.8	7.6	d
1/23/2003	NP		6.00	9.00	7.11	15.27	***<250***	*<2.5*	<2.5	<2.5	8.8	*5.9*	--	1.7	7	g
4/7/2003	--		6.00	9.00	7.19	15.19	***310***	*24*	2.4	15	*62*	*9.2*	--	1.1	7.1	
8/7/2003	--		6.00	9.00	7.45	14.93	***3,000***	***280***	<25	***150***	***700***	*<25*	--	1.2	6.8	m
10/23/2003	NP		6.00	9.00	7.59	14.79	***1,700***	***150***	7.6	***83***	***320***	*12*	--	--	--	m
01/12/2004	NP		6.00	9.00	7.40	14.98	***260***	*4.4*	<2.5	<2.5	*27*	4.3	--	2.4	7.3	
04/20/2004	NP	23.32	6.00	9.00	7.38	15.94	***1,500***	***160***	<5.0	***50***	***320***	*12*	--	1.4	7.1	r
07/01/2004	NP		6.00	9.00	7.78	15.54	***1,800***	***150***	5.2	16	***260***	*15*	--	1.9	7.0	
11/04/2004	NP		6.00	9.00	7.75	15.57	***640***	*38*	1.9	2.1	***110***	*5.7*	--	1.9	7.0	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
01/10/2005	NP	23.32	6.00	9.00	7.54	15.78	<50	*1.1*	<0.50	<0.50	0.96	2.5	--	1.61	7.0	
04/14/2005	NP		6.00	9.00	7.20	16.12	***320***	*16*	0.69	1.4	*48*	4.5	--	2.5	7.0	
08/02/2005	NP		6.00	9.00	7.35	15.97	***1,100***	***77***	2.8	9.0	***190***	*7.1*	--	--	6.8	
10/21/2005	NP		6.00	9.00	7.25	16.07	***1,700***	***84***	3.9	6.5	***250***	*10*	--	1.99	6.9	
01/04/2006	NP		6.00	9.00	7.52	15.80	***460***	*14*	<1.0	2.1	*72*	3.7	--	1.15	7.2	
04/28/2006	NP		6.00	9.00	6.55	16.77	***670***	*17*	<1.0	3.7	*33*	3.7	--	1.39	7.0	
8/4/2006	NP		6.00	9.00	7.00	16.32	***2,800***	***240***	9.3	14	***280***	*15*	--	1.26	7.1	
10/23/2006	P		6.00	9.00	7.33	15.99	***2,100***	***200***	7.8	17	***150***	*16*	--	--	7.08	
1/15/2007	--		6.00	9.00	7.60	15.72	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		6.00	9.00	7.47	15.85	*110*	*9.0*	<1.0	1.0	4.5	3.5	--	3.79	7.25	
7/9/2007	NP		6.00	9.00	7.55	15.77	***1,400***	***130***	5.4	14	*96*	*14*	--	3.55	7.40	
10/1/2007	NP		6.00	9.00	7.69	15.63	***1,300***	***120***	6.4	12	*91*	*11*	--	3.08	7.42	
1/7/2008	NP		6.00	9.00	7.38	15.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.25	7.26	
4/1/2008	NP		6.00	9.00	7.05	16.27	*190*	<0.50	<0.50	<0.50	<0.50	0.68	--	1.32	7.12	
7/23/2008	--		6.00	9.00	7.36	15.96	--	--	--	--	--	--	--	--	--	c
10/22/2008	--		6.00	9.00	7.41	15.91	--	--	--	--	--	--	--	--	--	c
1/21/2009	--		6.00	9.00	7.39	15.93	--	--	--	--	--	--	--	--	--	c
4/21/2009	NP		6.00	9.00	6.90	16.42	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.18	7.28	
7/21/2009	--		6.00	9.00	7.18	16.14	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	9.00	7.23	16.09	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	9.00	6.35	16.97	***650***	*38*	<0.50	0.71	<0.50	2.3	--	1.10	7.1	
7/22/2010	--		6.00	9.00	7.34	15.98	--	--	--	--	--	--	--	--	--	
2/18/2011	--		6.00	9.00	6.89	16.43	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	9.00	6.50	16.82	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	9.00	7.07	16.25	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	9.00	6.70	16.62	--	--	--	--	--	--	--	--	--	
MW-5																
6/10/1991	--	20.90	6.00	10.50	7.58	13.32	***100,000***	***25,000***	***20,000***	***2,600***	***12,000***	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/10/1991	--	20.90	6.00	10.50	8.51	12.39	--	--	--	--	--	--	--	--	--	a
3/23/1992	--		6.00	10.50	6.06	14.84	***150,000***	***24,000***	***31,000***	***4,400***	***23,000***	--	--	--	--	
6/8/1992	--		6.00	10.50	7.66	13.24	***120,000***	***17,000***	***13,000***	***2,400***	***11,000***	--	--	--	--	
9/15/1992	--		6.00	10.50	8.40	12.50	--	--	--	--	--	--	--	--	--	l
11/16/1992	--		6.00	10.50	7.70	13.20	***110,000***	***16,000***	***16,000***	***3,200***	***18,000***	--	--	--	--	
2/16/1993	--		6.00	10.50	5.64	15.26	***150,000***	***12,000***	***15,000***	***3,000***	***17,000***	--	--	--	--	
5/13/1993	--		6.00	10.50	6.68	14.22	--	--	--	--	--	--	--	--	--	l
8/17/1993	--		6.00	10.50	7.49	13.41	***87,000***	***15,000***	***8,500***	***1,900***	***11,000***	--	--	--	--	
11/8/1993	--		6.00	10.50	7.93	12.97	***87,000***	***12,000***	***8,300***	***2,000***	***12,000***	--	--	--	--	
2/14/1994	--		6.00	10.50	6.49	14.41	***46,000***	***7,300***	***5,300***	***940***	***5,200***	--	--	--	--	
5/5/1994	--		6.00	10.50	7.18	13.72	***54,000***	***9,700***	***4,700***	***1,000***	***6,400***	--	--	--	--	
8/4/1994	--		6.00	10.50	7.83	13.07	***57,000***	***14,000***	***3,200***	***1,200***	***7,200***	--	--	--	--	
11/20/1994	--		6.00	10.50	6.34	14.56	***33,000***	***5,700***	***1,800***	***720***	***4,700***	--	--	--	--	
3/17/1995	--		6.00	10.50	5.51	15.39	***48,000***	***6,400***	***2,000***	***740***	***5,100***	--	--	--	--	
6/1/1995	--		6.00	10.50	6.55	14.35	***76,000***	***11,000***	***5,400***	***1,400***	***7,700***	--	--	--	--	
8/31/1995	--		6.00	10.50	6.80	14.10	***53,000***	***12,000***	***1,600***	***1,000***	***6,000***	*<500*	--	--	--	
11/27/1995	--		6.00	10.50	7.13	13.77	***43,000***	***7,900***	***3,300***	***950***	***4,900***	--	--	--	--	
2/22/1996	--		6.00	10.50	5.12	15.78	***52,000***	***9,100***	***3,300***	***940***	***5,000***	*<500*	--	--	--	
5/20/1996	--		6.00	10.50	5.87	15.03	***55,000***	***9,300***	***3,800***	***1,100***	***5,400***	*<500*	--	--	--	
8/26/1996	--		6.00	10.50	7.15	13.75	***47,000***	***5,300***	***2,100***	***780***	***3,200***	*<300*	--	--	--	
11/20/1996	--		6.00	10.50	6.88	14.02	***53,000***	***8,700***	***5,700***	***920***	***4,400***	*<500*	--	--	--	
3/24/1997	--	22.45	6.00	10.50	7.13	15.32	***39,000***	***8,200***	***3,200***	***720***	***3,100***	*<500*	--	--	--	
5/23/1997	--		6.00	10.50	7.42	15.03	***29,000***	***6,600***	***1,700***	***400***	***1,500***	*<600*	--	--	--	
8/19/1997	--		6.00	10.50	7.58	14.87	***16,000***	***4,600***	***790***	***<50***	***1,300***	*<300*	--	--	--	
11/19/1997	--		6.00	10.50	7.58	14.87	***22,000***	***5,800***	***1,300***	***380***	***1,300***	*<300*	--	--	--	
2/19/1998	--		6.00	10.50	4.65	17.80	***40,000***	***5,100***	***3,800***	***620***	***2,900***	*<300*	--	--	--	
4/23/1998	--		6.00	10.50	6.25	16.20	***45,000***	***8,000***	***4,000***	***970***	***4,200***	*<600*	--	1.5	--	
7/27/1998	--		6.00	10.50	6.71	15.74	***30,000***	***8,000***	***2,000***	***590***	***1,900***	*<600*	--	1.5	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/14/1998	--	22.45	6.00	10.50	7.19	15.26	***33,000***	***7,400***	***1,900***	***550***	***1,700***	*<300*	--	1.5	--	
1/21/1999	--		6.00	10.50	7.03	15.42	***34,000***	***6,200***	***2,600***	***630***	***2,300***	*<600*	--	2.5	--	
5/6/1999	--		6.00	10.50	7.02	15.43	***7,900***	***2,400***	***200***	***240***	***580***	*12*	--	1.07	--	
8/23/1999	--		6.00	10.50	7.04	15.41	***25,000***	***5,800***	***2,300***	***570***	***2,000***	*67*	--	1.04	--	
10/28/1999	--		6.00	10.50	7.90	14.55	***20,000***	***5,900***	***1,100***	***450***	***1,100***	*<250*	--	0.87	--	
2/4/2000	--		6.00	10.50	6.71	15.74	***32,000***	***2,500***	***3,800***	***770***	***4,200***	*<75*	--	2.33	--	
6/20/2000	--		6.00	10.50	6.78	15.67	***10,000***	***3,000***	***650***	***260***	***700***	*<200*	--	--	--	
9/29/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	10.50	6.48	15.97	***23,400***	***4,160***	***3,450***	***728***	***3,090***	*<250*	--	--	--	
6/20/2001	--		6.00	10.50	7.26	15.19	***120,000***	***1,200***	*49*	***190***	***540***	*<100*	--	--	--	
9/22/2001	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		6.00	10.50	6.56	15.89	***16,000***	***1,500***	***2,700***	***730***	***3,200***	*<250*	--	--	--	
3/15/2002	--		6.00	10.50	6.90	15.55	***20,000***	***2,600***	***3,300***	***1,000***	***4,000***	*<250*	--	--	--	
4/18/2002	--		6.00	10.50	6.17	16.28	***17,000***	***3,200***	***2,900***	***790***	***3,000***	*<250*	--	--	--	
7/23/2002	NP		6.00	10.50	7.36	15.09	***4,600***	***1,400***	30	***160***	***470***	*110*	--	1.7	7.5	d
10/16/2002	NP		6.00	10.50	7.66	14.79	***5,400***	***1,300***	<20	***62***	***150***	*<100*	--	1.1	7.5	d
1/23/2003	NP		6.00	10.50	6.28	16.17	***<5,000***	***110***	*<50*	***<50***	*98*	*<50*	--	1.1	7.6	g
4/7/2003	--		6.00	10.50	7.21	15.24	***1,600***	***310***	18	*36*	*62*	*32*	--	1.5	7.2	
8/7/2003	--		6.00	10.50	7.46	14.99	<50	*1.8*	<0.50	<0.50	<0.50	3.5	--	12.2	9	m
10/23/2003	NP		6.00	10.50	7.68	14.77	76	*14*	<0.50	0.77	0.61	*12*	--	--	--	m
01/12/2004	NP		6.00	10.50	6.34	16.11	<50	*1.5*	0.68	<0.50	0.62	*11*	--	6.8	8.8	
04/20/2004	NP	23.47	6.00	10.50	8.12	15.35	***300***	***53***	13	12	*29*	*12*	--	8.9	8.5	r
07/01/2004	NP		6.00	10.50	8.62	14.85	<50	0.56	<0.50	<0.50	<0.50	*11*	--	10.6	8.5	
11/04/2004	NP		6.00	10.50	7.01	16.46	90	*6.3*	0.94	1.3	5.7	*9.4*	--	7.5	7.6	
01/10/2005	NP		6.00	10.50	5.51	17.96	***710***	0.55	<0.50	0.52	*53*	*40*	--	1.54	7.2	
04/14/2005	NP		6.00	10.50	5.67	17.80	***1,800***	***130***	5.9	***54***	***350***	*40*	--	2.0	6.8	
08/02/2005	NP		6.00	10.50	5.94	17.53	***3,800***	***210***	7.3	***250***	***520***	*19*	--	--	6.9	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/21/2005	NP	23.47	6.00	10.50	6.69	16.78	***4,100***	***330***	7.4	***190***	***420***	*16*	--	1.42	6.9	
01/04/2006	NP		6.00	10.50	5.55	17.92	***5,100***	***580***	14	***210***	***420***	*30*	--	0.62	6.8	
04/28/2006	NP		6.00	10.50	5.52	17.95	***2,900***	***190***	5.9	***59***	***150***	*9.9*	--	1.74	7.0	
8/4/2006	NP		6.00	10.50	6.51	16.96	***3,800***	***380***	7.6	*34*	***140***	*14*	--	0.82	6.9	
10/23/2006	P		6.00	10.50	7.34	16.13	***3,300***	***310***	*96*	***70***	***210***	*13*	--	--	6.99	
1/15/2007	P		6.00	10.50	6.67	16.80	***5,600***	***320***	***300***	***220***	***820***	*10*	--	1.03	7.03	
4/17/2007	NP		6.00	10.50	6.72	16.75	***3,400***	***200***	12	***160***	***250***	*5.9*	--	2.25	7.11	
7/9/2007	NP		6.00	10.50	7.30	16.17	***2,600***	***240***	7.0	15	*63*	*6.9*	--	2.28	7.16	
10/1/2007	NP		6.00	10.50	7.56	15.91	***2,300***	***220***	5.4	4.6	13	4.2	--	2.33	7.19	
1/7/2008	NP		6.00	10.50	6.12	17.35	***2,100***	***190***	8.8	18	*46*	4.1	--	1.06	6.97	
4/1/2008	NP		6.00	10.50	6.48	16.99	***2,300***	***87***	2.9	27	*68*	1.8	--	2.50	7.01	
7/23/2008	NP		6.00	10.50	7.16	16.31	***2,900***	***210***	<10	***52***	*78*	*<10*	--	1.4	7.03	
10/22/2008	NP		6.00	10.50	7.77	15.70	***4,000***	***310***	7.4	<5.0	7.9	<5.0	--	2.64	7.01	
1/21/2009	P		6.00	10.50	7.26	16.21	***2,300***	***51***	<5.0	9.4	17	<5.0	--	0.19	7.18	a
4/21/2009	NP		6.00	10.50	6.83	16.64	***2,100***	0.69	<0.50	<0.50	11	0.74	--	1.54	7.08	
7/21/2009	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	10.50	6.80	16.67	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	10.50	6.38	17.09	***6,200***	***140***	18	***78***	***110***	<2.5	--	1.77	6.9	
7/22/2010	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	
2/18/2011	--		6.00	10.50	6.37	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	10.50	6.90	16.57	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	
MW-6																
6/10/1991	--	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		5.50	9.00	7.45	14.63	***75,000***	***19,000***	***10,000***	***1,600***	***8,600***	--	--	--	--	
6/8/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
9/15/1992	--	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		5.50	9.00	6.79	15.29	***65,000***	***14,000***	***3,500***	***1,300***	***6,100***	--	--	--	--	
5/13/1993	--		5.50	9.00	7.73	14.35	***36,000***	***8,200***	***870***	***1,000***	***5,200***	--	--	--	--	
8/17/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		5.50	9.00	7.78	14.30	***47,000***	***14,000***	***390***	***1,000***	***5,100***	--	--	--	--	
5/5/1994	--		5.50	9.00	8.24	13.84	***45,000***	***14,000***	***<200***	***1,300***	***4,500***	--	--	--	--	n
8/4/1994	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		5.50	9.00	7.41	14.67	***30,000***	***11,000***	*<100*	***1,200***	***2,300***	--	--	--	--	n
3/17/1995	--		5.50	9.00	6.66	15.42	***45,000***	***9,300***	*<100*	***1,900***	***3,600***	--	--	--	--	n
6/1/1995	--		5.50	9.00	7.60	14.48	***23,000***	***5,600***	*<50*	***1,300***	***1,900***	--	--	--	--	
8/31/1995	--		5.50	9.00	7.92	14.16	***26,000***	***8,000***	*<100*	***1,900***	***900***	*<500*	--	--	--	
11/27/1995	--		5.50	9.00	8.21	13.87	***6,700***	***1,800***	<20	***480***	***230***	--	--	--	--	
2/22/1996	--		5.50	9.00	6.21	15.87	***17,000***	***3,100***	*69*	***810***	***1,500***	*<300*	--	--	--	
5/20/1996	--		5.50	9.00	7.07	15.01	***16,000***	***3,700***	*<50*	***1,100***	***1,100***	*<300*	--	--	--	
8/26/1996	--		5.50	9.00	7.93	14.15	***23,000***	***5,800***	*<50*	***2,000***	***560***	*<300*	--	--	--	
11/20/1996	--		5.50	9.00	8.02	14.06	***11,000***	***3,300***	*<50*	***480***	***370***	*<300*	--	--	--	j
3/24/1997	--	22.77	5.50	9.00	7.95	14.82	***9,700***	***1,900***	<20	***800***	***270***	*<100*	--	--	--	
5/23/1997	--		5.50	9.00	8.17	14.60	***16,000***	***4,300***	*<50*	***1,400***	***180***	*<300*	--	--	--	
8/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		5.50	9.00	5.78	16.99	***2,600***	***540***	8	***90***	*88*	*<30*	--	--	--	
4/23/1998	--		5.50	9.00	6.83	15.94	***7,600***	***1,300***	13	***520***	***190***	*<60*	--	0.5	--	
7/27/1998	--		5.50	9.00	7.80	14.97	***15,000***	***3,600***	<25	***1,100***	***230***	*<150*	--	1	--	
10/14/1998	--		5.50	9.00	8.31	14.46	***8,700***	***2,400***	<20	***220***	*36*	*<120*	--	2	--	
1/21/1999	--		5.50	9.00	7.90	14.87	***4,800***	***1,100***	<25	***340***	*79*	*<150*	--	2	--	
5/6/1999	--		5.50	9.00	7.70	15.07	***1,300***	***240***	2.3	***85***	19	5	--	1.18	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
8/23/1999	--	22.77	5.50	9.00	8.24	14.53	***4,200***	***970***	12	***110***	*29*	*<15*	--	0.9	--	
10/28/1999	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/4/2000	--		5.50	9.00	7.31	15.46	*110*	<0.5	0.6	1.5	1.9	*11*	--	1.1	--	
6/20/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		5.50	9.00	7.57	15.20	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		5.50	9.00	7.21	15.56	<50	*2.6*	0.57	1.1	1.6	<2.5	--	--	--	
3/15/2002	--		5.50	9.00	7.51	15.26	***2,100***	***380***	8.6	***110***	17	*<25*	--	--	--	
4/18/2002	--		5.50	9.00	6.89	15.88	***2,200***	***440***	12	***96***	14	*52*	--	--	--	
7/23/2002	NP		5.50	9.00	8.50	14.27	--	--	--	--	--	--	--	--	--	
10/16/2002	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	--		5.50	9.00	8.05	14.72	***<250***	***58***	<2.5	6.2	3.8	*17*	--	2.1	--	g, h
1/23/2003	NP		5.50	9.00	8.05	14.72	***<5,000***	***<50***	*<50*	***<50***	*<50*	*<50*	--	2.1	6.4	g
4/7/2003	--		5.50	9.00	8.11	14.66	***330***	*13*	<0.50	2.7	8.6	*15*	--	2.2	6.9	
8/7/2003	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/23/2003	NP		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		5.50	9.00	7.63	15.14	***3,600***	***560***	<25	***120***	*<25*	*150*	--	0.6	7.1	
04/20/2004	NP	24.66	5.50	9.00	8.54	16.12	--	--	--	--	--	--	--	--	--	c, r
07/01/2004	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		5.50	9.00	8.10	16.56	***4,900***	***580***	<10	***180***	*30*	*230*	--	2.9	6.9	
01/10/2005	NP		5.50	9.00	7.03	17.63	***5,400***	***540***	<25	***150***	*46*	*240*	--	1.29	6.9	
04/14/2005	NP		5.50	9.00	6.85	17.81	***3,600***	***410***	5.2	***100***	*25*	*210*	--	2.7	--	
08/02/2005	NP		5.50	9.00	7.28	17.38	***4,300***	***340***	<5.0	***110***	*44*	*150*	--	--	6.8	
10/21/2005	NP		5.50	9.00	7.38	17.28	***3,400***	***250***	<5.0	***80***	20	*110*	--	2.38	6.8	
01/04/2006	NP		5.50	9.00	7.20	17.46	***2,800***	***270***	4.0	***75***	14	*130*	--	1.07	7.3	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
04/28/2006	NP	24.66	5.50	9.00	6.60	18.06	***4,400***	***170***	<2.5	***45***	7.2	*170*	--	1.3	6.8	
8/4/2006	NP		5.50	9.00	7.50	17.16	***2,200***	***93***	<2.5	15	9.0	*110*	--	1.23	6.7	
10/23/2006	--		5.50	9.00	8.48	16.18	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	9.00	8.05	16.61	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		5.50	9.00	7.58	17.08	***330***	*5.6*	<1.0	1.5	1.2	*24*	--	1.82	7.02	
7/9/2007	NP		5.50	9.00	8.34	16.32	***1,600***	***63***	1.4	16	9.4	*51*	--	1.73	7.13	
10/1/2007	--		5.50	9.00	8.60	16.06	--	--	--	--	--	--	--	--	--	
1/7/2008	NP		5.50	9.00	7.22	17.44	***300***	*2.2*	<0.50	2.8	1.0	*37*	--	3.24	7.16	
4/1/2008	NP		5.50	9.00	7.87	16.79	*110*	<0.50	<0.50	<0.50	<0.50	1.4	--	6.21	7.19	
7/23/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
4/21/2009	--		5.50	9.00	7.91	16.75	--	--	--	--	--	--	--	--	--	c
7/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		5.50	9.00	8.11	16.55	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	9.00	7.45	17.21	--	--	--	--	--	--	--	--	--	
7/22/2010	--		5.50	9.00	8.19	16.47	--	--	--	--	--	--	--	--	--	
2/18/2011	--		5.50	9.00	7.48	17.18	--	--	--	--	--	--	--	--	--	
8/25/2011	--		5.50	9.00	6.99	17.67	--	--	--	--	--	--	--	--	--	
1/17/2012	--		5.50	9.00	8.63	16.03	--	--	--	--	--	--	--	--	--	
7/24/2012	--		5.50	9.00	8.25	16.41	--	--	--	--	--	--	--	--	--	
MW-7																
6/10/1991	--	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		8.00	10.00	8.20	14.69	***270***	*10*	0.5	3	13	--	--	--	--	
6/8/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/15/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
2/16/1993	--	22.89	8.00	10.00	7.84	15.05	*120*	*3.6*	<0.5	<0.5	1.2	--	--	--	--	
5/13/1993	--		8.00	10.00	8.56	14.33	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		8.00	10.00	8.80	14.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		8.00	10.00	9.11	13.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		8.00	10.00	8.72	14.17	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		8.00	10.00	7.68	15.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		8.00	10.00	8.40	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/31/1995	--		8.00	10.00	9.09	13.80	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--	
11/27/1995	--		8.00	10.00	9.15	13.74	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--	
2/22/1996	--		8.00	10.00	7.44	15.45	*110*	*1.4*	<0.5	3.8	3	<3	--	--	--	
5/20/1996	--		8.00	10.00	8.47	14.42	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	10.00	8.81	14.08	--	--	--	--	--	--	--	--	--	
11/20/1996	--		8.00	10.00	9.17	13.72	--	--	--	--	--	--	--	--	--	
3/24/1997	--		8.00	10.00	8.31	14.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		8.00	10.00	9.26	13.63	--	--	--	--	--	--	--	--	--	
8/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		8.00	10.00	6.13	16.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		8.00	10.00	7.44	15.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		8.00	10.00	8.75	14.14	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
10/14/1998	--		8.00	10.00	9.22	13.67	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
1/21/1999	--		8.00	10.00	9.07	13.82	52	<0.5	<0.5	<0.5	0.27	<3	--	3.0	--	
5/6/1999	--		8.00	10.00	8.32	14.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.83	--	
8/23/1999	--		8.00	10.00	9.25	13.64	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.42	--	
10/28/1999	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
2/4/2000	--	22.89	8.00	10.00	8.79	14.10	<50	<0.5	<0.5	<0.5	<1	<3	--	4.46	--	
6/20/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		8.00	10.00	8.93	13.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		8.00	10.00	8.35	14.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		8.00	10.00	8.42	14.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		8.00	10.00	8.54	14.35	<50	*1.3*	2.6	1.1	5.4	<2.5	--	--	--	
4/18/2002	--		8.00	10.00	7.84	15.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	3.32	--	
7/23/2002	NP		8.00	10.00	9.51	13.38	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	NP		8.00	10.00	8.04	14.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	6.7	g
4/7/2003	--		8.00	10.00	8.39	14.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.1	6.9	
8/7/2003	--		8.00	10.00	9.01	13.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.5	6.9	
10/23/2003	NP		8.00	10.00	9.22	13.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	NP		8.00	10.00	8.81	14.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.8	7.3	
04/20/2004	NP	25.46	8.00	10.00	8.95	16.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.6	7.2	r
07/01/2004	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		8.00	10.00	9.04	16.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	7.1	
01/10/2005	NP		8.00	10.00	8.25	17.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.02	7.0	
04/14/2005	--		8.00	10.00	7.95	17.51	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		8.00	10.00	8.40	17.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.8	
10/21/2005	--		8.00	10.00	8.92	16.54	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	10.00	8.62	16.84	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	10.00	7.78	17.68	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		8.00	10.00	8.78	16.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.49	7.2	
10/23/2006	--		8.00	10.00	9.39	16.07	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
1/15/2007	--	25.46	8.00	10.00	9.06	16.40	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	10.00	9.12	16.34	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/1/2007	--		8.00	10.00	9.60	15.86	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	10.00	8.99	16.47	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	10.00	8.35	17.11	--	--	--	--	--	--	--	--	--	
7/23/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		8.00	10.00	9.35	16.11	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	10.00	8.72	16.74	--	--	--	--	--	--	--	--	--	
7/21/2009	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		8.00	10.00	8.34	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		8.00	10.00	9.13	16.33	--	--	--	--	--	--	--	--	--	
2/18/2011	--		8.00	10.00	8.51	16.95	--	--	--	--	--	--	--	--	--	
8/25/2011	--		8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
1/17/2012	--		8.00	10.00	9.49	15.97	--	--	--	--	--	--	--	--	--	
7/24/2012	--		8.00	10.00	8.77	16.69	--	--	--	--	--	--	--	--	--	
MW-8																
6/10/1991	--	20.97	6.50	10.50	7.80	13.17	***5,800***	***73***	7.2	***150***	*21*	--	--	--	--	
10/10/1991	--		6.50	10.50	8.87	12.10	***2,800***	*31*	6.1	4.5	3.9	--	--	--	--	
3/23/1992	--		6.50	10.50	5.81	15.16	***8,000***	*18*	<5	***320***	*42*	--	--	--	--	n
6/8/1992	--		6.50	10.50	8.01	12.96	***4,000***	*<10*	<10	***110***	<10	--	--	--	--	n
9/15/1992	--		6.50	10.50	8.80	12.17	***4,200***	*6.4*	<5	***120***	<5	--	--	--	--	n
11/16/1992	--		6.50	10.50	8.19	12.78	***2,600***	*4*	<2.5	21	5.2	--	--	--	--	n
2/16/1993	--		6.50	10.50	5.84	15.13	***8,700***	*<5*	<5	***200***	<5	--	--	--	--	n
5/13/1993	--		6.50	10.50	6.93	14.04	***2,300***	*<5*	<5	*42*	<5	--	--	--	--	n
8/17/1993	--		6.50	10.50	7.87	13.10	***1,700***	*1.8*	<1.3	16	1.2	--	--	--	--	n

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
11/8/1993	--	20.97	6.50	10.50	8.31	12.66	***1,200***	*2.4*	<1	19	2.3	--	--	--	--	n
2/14/1994	--		6.50	10.50	7.00	13.97	***3,600***	*3*	<1	***72***	<1	--	--	--	--	n
5/5/1994	--		6.50	10.50	7.46	13.51	***2,100***	*<2.5*	<2.5	8.3	<2.5	--	--	--	--	n
8/4/1994	--		6.50	10.50	8.17	12.80	***1,200***	*1.5*	<1	6.7	<1	--	--	--	--	n
11/20/1994	--		6.50	10.50	6.78	14.19	***2,300***	*1.2*	1.1	20	2.2	--	--	--	--	
3/17/1995	--		6.50	10.50	6.14	14.83	***5,400***	*<5*	<5	*35*	<5	--	--	--	--	n
6/1/1995	--		6.50	10.50	6.50	14.47	***2,600***	*<2.5*	<2.5	15	<2.5	--	--	--	--	
8/31/1995	--		6.50	10.50	7.35	13.62	***1,400***	*<3*	<3	5	<3	*520*	--	--	--	
11/27/1995	--		6.50	10.50	7.60	13.37	***620***	<0.5	<0.5	<0.5	0.5	*560*	--	--	--	
2/22/1996	--		6.50	10.50	5.35	15.62	***5,800***	*<5*	<5	28	<5	*110*	--	--	--	
5/20/1996	--		6.50	10.50	5.92	15.05	***6,100***	*<5*	<5	26	<5	*240*	--	--	--	
8/26/1996	--		6.50	10.50	7.08	13.89	***970***	<1	<1	3	<1	*710*	--	--	--	
11/20/1996	--		6.50	10.50	7.01	13.96	***3,900***	*<2.5*	<2.5	12	<2.5	*930*	--	--	--	
3/24/1997	--	20.89	6.50	10.50	7.33	13.56	***1,400***	*<10*	<10	<10	12	*1,300*	--	--	--	
5/23/1997	--		6.50	10.50	7.55	13.34	***730***	*<5*	<5	<5	<5	*630*	--	--	--	
8/19/1997	--		6.50	10.50	7.87	13.02	***<500***	*<5*	<5	<5	<5	*290*	--	--	--	
11/19/1997	--		6.50	10.50	7.87	13.02	*<200*	*<2*	<2	<2	<2	*260*	--	--	--	
2/19/1998	--		6.50	10.50	4.46	16.43	***2,000***	*<2*	<2	9	<2	*140*	--	--	--	
4/23/1998	--		6.50	10.50	6.35	14.54	***4,500***	*<5*	<5	<5	11	*590*	--	0.5	--	
7/27/1998	--		6.50	10.50	7.43	13.46	--	--	--	--	--	--	--	--	--	
10/14/1998	--		6.50	10.50	7.79	13.10	--	--	--	--	--	--	--	--	--	
1/21/1999	--		6.50	10.50	6.54	14.35	***2,000***	*<2*	<2	3	<2	*320*	--	2.5	--	
5/6/1999	--		6.50	10.50	7.30	13.59	<50	<0.5	<0.5	<0.5	<0.5	*160*	--	12.76	--	
8/23/1999	--		6.50	10.50	7.45	13.44	<50	<0.5	<0.5	<0.5	<0.5	5	--	7.85	--	
10/28/1999	--		6.50	10.50	8.22	12.67	*160*	<0.5	<0.5	<0.5	<1	*45*	--	0.84	--	
2/4/2000	--		6.50	10.50	8.47	12.42	<50	<0.5	<0.5	<0.5	<1	<3	--	1.92	--	
6/20/2000	--		6.50	10.50	7.23	13.66	*150*	<0.5	0.9	<0.5	<1.0	*310*	--	--	--	
9/29/2000	--		6.50	10.50	7.91	12.98	*149*	<0.5	<0.5	<0.5	<0.5	*438*	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
12/17/2000	--	20.89	6.50	10.50	7.11	13.78	***662***	*<5.0*	<5.0	<5.0	<5.0	*273*	--	--	--	
3/28/2001	--		6.50	10.50	6.88	14.01	***840***	*<5.0*	<5.0	<5.0	<5.0	*320*	--	--	--	
6/20/2001	--		6.50	10.50	7.25	13.64	***230***	<0.5	<0.5	<0.5	0.65	*330*	--	--	--	
9/22/2001	--		6.50	10.50	8.14	12.75	<50	<0.5	<0.5	<0.5	<0.5	*6.5*	--	--	--	
12/27/2001	--		6.50	10.50	6.73	14.16	***780***	<0.5	<0.5	0.6	0.89	*160*	--	--	--	
3/15/2002	--		6.50	10.50	6.94	13.95	***1,100***	*<10*	<10	<10	<10	*830*	--	--	--	
4/18/2002	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	NP		6.50	10.50	7.89	13.00	<50	<0.50	<0.50	<0.50	<0.50	*8.7*	--	4.5	7.7	
10/16/2002	NP		6.50	10.50	8.13	12.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	4.2	7.5	
1/23/2003	NP		6.50	10.50	6.47	14.42	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	4.0	7.5	g
4/7/2003	--		6.50	10.50	7.49	13.40	<50	<0.50	<0.50	<0.50	<0.50	*19*	--	4.7	7.5	
8/7/2003	--		6.50	10.50	7.93	12.96	<50	<0.50	<0.50	<0.50	<0.50	0.96	--	14.8	8.3	m
10/23/2003	NP		6.50	10.50	7.83	13.06	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	--	--	
01/12/2004	NP		6.50	10.50	6.62	14.27	<50	<0.50	<0.50	<0.50	<0.50	*13*	--	11.2	9.0	
04/20/2004	NP	23.55	6.50	10.50	8.21	15.34	55	<0.50	<0.50	<0.50	<0.50	*25*	--	10.1	8.7	r
07/01/2004	NP		6.50	10.50	8.48	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	14.3	8.0	
11/04/2004	NP		6.50	10.50	7.19	16.36	<50	<0.50	<0.50	<0.50	<0.50	*13*	--	12.0	7.9	
01/10/2005	NP		6.50	10.50	5.42	18.13	<50	<0.50	<0.50	<0.50	<0.50	*10*	--	2.65	7.1	
04/14/2005	--		6.50	10.50	5.74	17.81	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.50	10.50	6.60	16.95	<50	<0.50	<0.50	<0.50	<0.50	*16*	--	--	7.1	
10/21/2005	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible p
01/04/2006	--		6.50	10.50	4.97	18.58	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.50	10.50	5.67	17.88	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.50	10.50	7.37	16.18	<50	<0.50	<0.50	<0.50	<0.50	*16*	--	0.76	7.3	
10/23/2006	--		6.50	10.50	7.74	15.81	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.50	10.50	7.04	16.51	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.50	10.50	6.94	16.61	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.50	10.50	7.71	15.84	<50	<0.50	<0.50	<0.50	<0.50	*17*	--	1.90	7.25	

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
10/1/2007	--	23.55	6.50	10.50	8.00	15.55	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.50	10.50	5.79	17.76	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.50	10.50	7.80	15.75	<50	<0.50	<0.50	<0.50	<0.50	*8.6*	--	1.62	7.08	
10/22/2008	--		6.50	10.50	8.19	15.36	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.50	10.50	7.75	15.80	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.50	10.50	6.66	16.89	--	--	--	--	--	--	--	--	--	
7/21/2009	P		6.50	10.50	7.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	13.97	7.56	
1/12/2010	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.50	10.50	6.45	17.10	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.50	10.50	7.21	16.34	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	1.05	7.39	
2/18/2011	--		6.50	10.50	6.55	17.00	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.50	10.50	7.12	16.43	<50	<0.50	<0.50	<0.50	<0.50	0.52	--	0.68	7.5	
1/17/2012	--		6.50	10.50	8.06	15.49	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.50	10.50	7.40	16.15	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	0.84	7.30	
MW-9																
6/11/1993	--	20.89	6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	19.50	8.53	12.36	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	19.50	8.87	12.02	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/14/1994	--		6.00	19.50	7.47	13.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	19.50	8.04	12.85	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	19.50	8.78	12.11	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	19.50	6.83	14.06	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	19.50	6.94	13.95	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	19.50	8.10	12.79	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	19.50	8.38	12.51	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	19.50	7.36	13.53	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
5/20/1996	--	20.89	6.00	19.50	7.81	13.08	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	19.50	8.00	12.89	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	19.50	7.06	13.83	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.26	6.00	19.50	7.74	14.52	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	19.50	8.28	13.98	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	19.50	8.32	13.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	19.50	8.32	13.94	--	--	--	--	--	--	--	--	--	
2/19/1998	--		6.00	19.50	7.11	15.15	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	19.50	8.18	14.08	--	--	--	--	--	--	--	--	--	
7/27/1998	--		6.00	19.50	7.97	14.29	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.6	--	
10/14/1998	--		6.00	19.50	8.29	13.97	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.5	--	
1/21/1999	--		6.00	19.50	7.63	14.63	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.5	--	
5/6/1999	--		6.00	19.50	7.27	14.99	--	--	--	--	--	--	--	--	--	
8/23/1999	--		6.00	19.50	8.24	14.02	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.93	--	
10/28/1999	--		6.00	19.50	8.63	13.63	--	--	--	--	--	--	--	--	--	
2/4/2000	--		6.00	19.50	8.01	14.25	<50	<0.50	1.6	<0.50	<1	<3	--	1.47	--	
6/20/2000	--		6.00	19.50	8.01	14.25	--	--	--	--	--	--	--	--	--	
9/29/2000	--		6.00	19.50	8.44	13.82	<50	<0.5	<0.5	<0.5	<0.5	3.44	--	--	--	
12/17/2000	--		6.00	19.50	7.84	14.42	--	--	--	--	--	--	--	--	--	
3/28/2001	--		6.00	19.50	7.58	14.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	19.50	7.75	14.51	--	--	--	--	--	--	--	--	--	
9/22/2001	--		6.00	19.50	8.69	13.57	<50	<0.5	<0.5	<0.5	<0.5	*7.8*	--	--	--	
12/27/2001	--		6.00	19.50	7.15	15.11	--	--	--	--	--	--	--	--	--	
3/15/2002	--		6.00	19.50	7.23	15.03	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	19.50	6.79	15.47	--	--	--	--	--	--	--	--	--	
7/23/2002	P		6.00	19.50	8.30	13.96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.2	
10/16/2002	--		6.00	19.50	8.64	13.62	--	--	--	--	--	--	--	--	--	
1/23/2003	P		6.00	19.50	7.35	14.91	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	3.0	7.2	g

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
4/7/2003	--	22.26	6.00	19.50	7.81	14.45	--	--	--	--	--	--	--	--	--	
8/7/2003	--		6.00	19.50	8.31	13.95	--	--	--	--	--	--	--	--	--	
10/23/2003	--		6.00	19.50	8.48	13.78	--	--	--	--	--	--	--	--	--	
01/12/2004	--		6.00	19.50	7.46	14.80	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.64	6.00	19.50	8.65	14.99	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		6.00	19.50	9.03	14.61	<50	<0.50	<0.50	<0.50	<0.50	3.2	--	1.3	6.9	
11/04/2004	--		6.00	19.50	7.60	16.04	--	--	--	--	--	--	--	--	--	
01/10/2005	--		6.00	19.50	6.24	17.40	--	--	--	--	--	--	--	--	--	
04/14/2005	--		6.00	19.50	6.90	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	19.50	7.60	16.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	--	--	7.0	
10/21/2005	--		6.00	19.50	8.09	15.55	--	--	--	--	--	--	--	--	--	
01/04/2006	--		6.00	19.50	6.15	17.49	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.00	19.50	6.95	16.69	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	19.50	7.90	15.74	<50	<0.50	<0.50	<0.50	<0.50	4.0	--	1.23	7.3	
10/23/2006	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.00	19.50	8.82	14.82	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.00	19.50	7.89	15.75	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	19.50	8.28	15.36	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.80	7.31	
10/1/2007	--		6.00	19.50	8.50	15.14	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.00	19.50	8.38	15.26	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.00	19.50	7.92	15.72	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	19.50	8.16	15.48	<50	<0.50	<0.50	<0.50	<0.50	5.0	--	1.39	7.23	
10/22/2008	--		6.00	19.50	8.71	14.93	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.00	19.50	7.84	15.80	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	19.50	8.35	15.29	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	8.05	7.63	
1/12/2010	--		6.00	19.50	7.61	16.03	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.00	19.50	7.62	16.02	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
7/22/2010	NP	23.64	6.00	19.50	8.13	15.51	56	<0.50	<0.50	<0.50	<0.50	4.5	--	0.88	7.03	w
2/18/2011	--		6.00	19.50	6.54	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.00	19.50	8.05	15.59	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.60	7.2	
1/17/2012	--		6.00	19.50	8.63	15.01	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.00	19.50	8.07	15.57	<50	<0.50	<0.50	<0.50	<1.0	3.6	--	1.37	7.29	
MW-10																
6/11/1993	--	21.12	6.00	16.50	8.14	12.98	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	16.50	8.54	12.58	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	16.50	8.70	12.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/14/1994	--		6.00	16.50	7.13	13.99	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	16.50	8.08	13.04	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	16.50	8.84	12.28	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	16.50	7.05	14.07	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	16.50	6.26	14.86	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	16.50	7.63	13.49	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	16.50	8.17	12.95	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	16.50	8.38	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	16.50	5.41	15.71	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/20/1996	--		6.00	16.50	6.78	14.34	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	16.50	8.00	13.12	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	16.50	7.81	13.31	--	--	--	--	--	--	--	--	--	
3/24/1997	--	21.33	6.00	16.50	7.87	13.46	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	16.50	8.33	13.00	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
2/19/1998	--		6.00	16.50	4.65	16.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	16.50	6.28	15.05	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
7/27/1998	--		6.00	16.50	7.97	13.36	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.3	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
10/14/1998	--	21.33	6.00	16.50	8.41	12.92	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.0	--	
1/21/1999	--		6.00	16.50	6.65	14.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
5/6/1999	--		6.00	16.50	7.74	13.59	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.76	--	
8/23/1999	--		6.00	16.50	8.37	12.96	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.21	--	
10/28/1999	--		6.00	16.50	8.73	12.60	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.12	--	
2/4/2000	--		6.00	16.50	8.78	12.55	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.84	--	
6/20/2000	--		6.00	16.50	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	--	--	--	
9/29/2000	--		6.00	16.50	8.40	12.93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/17/2000	--		6.00	16.50	7.91	13.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		6.00	16.50	7.47	13.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	16.50	8.11	13.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
9/22/2001	--		6.00	16.50	8.77	12.56	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		6.00	16.50	6.94	14.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		6.00	16.50	7.48	13.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	16.50	6.77	14.56	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	1.22	--	
7/23/2002	NP		6.00	16.50	8.42	12.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	7.2	
10/16/2002	NP		6.00	16.50	8.77	12.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	6.4	
1/23/2003	NP		6.00	16.50	7.12	14.21	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	1.3	7.4	g
4/7/2003	--		6.00	16.50	7.73	13.60	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	1.3	7.0	
8/7/2003	--		6.00	16.50	8.45	12.88	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.3	7.3	
10/23/2003	--		6.00	16.50	8.71	12.62	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		6.00	16.50	7.25	14.08	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	8.2	7.5	
04/20/2004	--	23.42	6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	r
07/01/2004	NP		6.00	16.50	8.90	14.52	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.0	7.1	
11/04/2004	--		6.00	16.50	7.68	15.74	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		6.00	16.50	6.13	17.29	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.9	7.3	
04/14/2005	--		6.00	16.50	6.68	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	16.50	7.54	15.88	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	7.1	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
10/21/2005	--	23.42	6.00	16.50	8.12	15.30	--	--	--	--	--	--	--	--	--	
01/04/2006	NP		6.00	16.50	5.40	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.4	7.3	
04/28/2006	--		6.00	16.50	6.65	16.77	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	16.50	8.92	14.50	<50	<0.50	<0.50	<0.50	<0.50	1.8	--	0.87	7.3	
10/23/2006	--		6.00	16.50	8.23	15.19	--	--	--	--	--	--	--	--	--	
1/15/2007	P		6.00	16.50	7.47	15.95	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	1.15	7.21	
4/17/2007	--		6.00	16.50	7.74	15.68	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	16.50	8.35	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	2.71	7.48	
10/1/2007	--		6.00	16.50	8.74	14.68	--	--	--	--	--	--	--	--	--	
1/7/2008	NP		6.00	16.50	6.02	17.40	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.22	7.41	
4/1/2008	--		6.00	16.50	8.97	14.45	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	16.50	8.62	14.80	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.2	7.35	
10/22/2008	--		6.00	16.50	9.02	14.40	--	--	--	--	--	--	--	--	--	
1/21/2009	P		6.00	16.50	8.55	14.87	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.57	7.45	
4/21/2009	--		6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	16.50	8.81	14.61	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	7.60	7.77	
1/12/2010	P		6.00	16.50	7.90	15.52	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	2.20	7.0	
6/3/2010	--		6.00	16.50	7.53	15.89	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.00	16.50	8.24	15.18	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	--	--	
2/18/2011	NP		6.00	16.50	6.33	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	0.90	5.6	
8/25/2011	P		6.00	16.50	6.10	17.32	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	0.54	7.2	
1/17/2012	P		6.00	16.50	8.83	14.59	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.61	7.6	
7/24/2012	P		6.00	16.50	8.14	15.28	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	1.56	7.44	
MW-11																
11/16/1992	--	22.38	7.00	12.00	9.02	13.36	***7,000***	*21*	<10	18	***230***	--	--	--	--	n
2/16/1993	--		7.00	12.00	7.11	15.27	***2,200***	*<10*	<10	11	<10	--	--	--	--	n
5/13/1993	--		7.00	12.00	8.04	14.34	***1,600***	*<2.5*	<2.5	*41*	6.8	--	--	--	--	n
8/17/1993	--		7.00	12.00	8.78	13.60	***830***	*1.4*	<1.0	25	15	--	--	--	--	n

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
11/8/1993	--	22.38	7.00	12.00	9.23	13.15	***370***	<1.0	<1.0	2.5	2.1	--	--	--	--	n
2/14/1994	--		7.00	12.00	7.94	14.44	***650***	<1	<1.0	2	4	--	--	--	--	n
5/5/1994	--		7.00	12.00	8.55	13.83	*210*	<0.5	<0.5	2.5	0.6	--	--	--	--	
8/4/1994	--		7.00	12.00	9.13	13.25	***390***	<0.5	<0.7	1.9	2.2	--	--	--	--	n
11/20/1994	--		7.00	12.00	7.73	14.65	***1,300***	*1.3*	0.5	1.5	*21*	--	--	--	--	
3/17/1995	--		7.00	12.00	6.94	15.44	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.00	12.00	7.90	14.48	*210*	<0.5	<0.5	0.9	0.7	--	--	--	--	
8/31/1995	--		7.00	12.00	8.18	14.20	***680***	<0.5	<0.5	4	1.8	<3	--	--	--	
11/27/1995	--		7.00	12.00	8.48	13.90	***340***	<0.5	<0.5	2.2	1.6	--	--	--	--	
2/22/1996	--		7.00	12.00	6.63	15.75	*150*	<0.5	<0.5	<0.8	<0.8	<3	--	--	--	
5/20/1996	--		7.00	12.00	7.25	15.13	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.00	12.00	8.22	14.16	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.00	12.00	8.37	14.01	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.97	7.00	12.00	8.15	12.82	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--	
2/19/1998	--		7.00	12.00	6.25	14.72	<50	<0.5	1.6	<0.5	1.8	*7*	--	--	--	
4/23/1998	--		7.00	12.00	7.23	13.74	--	--	--	--	--	--	--	--	--	
7/27/1998	--		7.00	12.00	8.05	12.92	--	--	--	--	--	--	--	--	--	
10/14/1998	--		7.00	12.00	8.58	12.39	--	--	--	--	--	--	--	--	--	
1/21/1999	--		7.00	12.00	8.25	12.72	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
5/6/1999	--		7.00	12.00	7.95	13.02	--	--	--	--	--	--	--	--	--	
8/23/1999	--		7.00	12.00	8.51	12.46	--	--	--	--	--	--	--	0.86	--	
10/28/1999	--		7.00	12.00	8.95	12.02	--	--	--	--	--	--	--	--	--	
2/4/2000	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<1	<3	--	3.29	--	
6/20/2000	--		7.00	12.00	8.18	12.79	--	--	--	--	--	--	--	--	--	
9/29/2000	--		7.00	12.00	8.60	12.37	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
12/17/2000	--	20.97	7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
3/28/2001	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
9/22/2001	--		7.00	12.00	9.11	11.86	--	--	--	--	--	--	--	--	--	
12/27/2001	--		7.00	12.00	7.50	13.47	--	--	--	--	--	--	--	--	--	
3/15/2002	--		7.00	12.00	7.87	13.10	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.00	12.00	7.22	13.75	--	--	--	--	--	--	--	--	--	
7/23/2002	--		7.00	12.00	8.76	12.21	--	--	--	--	--	--	--	--	--	
10/16/2002	--		7.00	12.00	9.15	11.82	--	--	--	--	--	--	--	--	--	
1/23/2003	P		7.00	12.00	7.61	13.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	7.4	g
4/7/2003	--		7.00	12.00	8.25	12.72	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.00	12.00	8.84	12.13	--	--	--	--	--	--	--	--	--	
10/23/2003	--		7.00	12.00	9.09	11.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		7.00	12.00	7.70	13.27	--	--	--	--	--	--	--	--	--	
04/20/2004	--	24.97	7.00	12.00	9.18	15.79	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.00	12.00	9.90	15.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.01	o
11/04/2004	--		7.00	12.00	8.21	16.76	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.00	12.00	6.94	18.03	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.00	12.00	6.77	18.20	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.00	12.00	7.57	17.40	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.00	12.00	8.08	16.89	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.00	12.00	7.20	17.77	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.00	12.00	6.90	18.07	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.00	12.00	8.75	16.22	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.00	12.00	8.19	16.78	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.00	12.00	8.73	16.24	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
10/1/2007	--	24.97	7.00	12.00	8.65	16.32	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.00	12.00	7.52	17.45	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.00	12.00	8.18	16.79	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.00	12.00	9.27	15.70	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.00	12.00	9.11	15.86	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.00	12.00	8.72	16.25	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.00	12.00	8.22	16.75	--	--	--	--	--	--	--	--	--	
7/21/2009	--		7.00	12.00	8.98	15.99	--	--	--	--	--	--	--	--	--	
1/12/2010	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.00	12.00	7.77	17.20	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.00	12.00	8.41	16.56	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.00	12.00	7.76	17.21	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
1/17/2012	--		7.00	12.00	9.02	15.95	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
MW-12																
11/16/1992	--	22.77	7.50	12.50	9.65	13.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	12.50	7.88	14.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	12.50	8.63	14.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	12.50	9.30	13.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	12.50	9.72	13.05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	12.50	8.24	14.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	12.50	8.97	13.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	12.50	9.57	13.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	12.50	8.06	14.71	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	12.50	7.09	15.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	12.50	8.40	14.37	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	12.50	8.55	14.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
11/27/1995	--	22.77	7.50	12.50	8.95	13.82	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	12.50	6.81	15.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	12.50	7.56	15.21	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	12.50	8.63	14.14	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	12.50	8.38	14.39	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.11	7.50	12.50	8.75	11.36	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	12.50	8.92	11.19	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
2/19/1998	--		7.50	12.50	6.28	13.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	12.50	7.52	12.59	--	--	--	--	--	--	--	--	--	
7/27/1998	--		7.50	12.50	8.52	11.59	--	--	--	--	--	--	--	--	--	
10/14/1998	--		7.50	12.50	9.06	11.05	--	--	--	--	--	--	--	--	--	
1/21/1999	--		7.50	12.50	8.20	11.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	12.50	8.47	11.64	--	--	--	--	--	--	--	--	--	
8/23/1999	--		7.50	12.50	9.04	11.07	--	--	--	--	--	--	--	0.85	--	
10/28/1999	--		7.50	12.50	9.40	10.71	--	--	--	--	--	--	--	--	--	
2/4/2000	--		7.50	12.50	8.38	11.73	<50	<0.5	<0.5	<0.5	<1	<3	--	3.34	--	
6/20/2000	--		7.50	12.50	8.55	11.56	--	--	--	--	--	--	--	--	--	
9/29/2000	--		7.50	12.50	8.98	11.13	--	--	--	--	--	--	--	--	--	
12/17/2000	--		7.50	12.50	8.76	11.35	--	--	--	--	--	--	--	--	--	
3/28/2001	--		7.50	12.50	8.31	11.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	12.50	9.10	11.01	--	--	--	--	--	--	--	--	--	
9/22/2001	--		7.50	12.50	9.48	10.63	--	--	--	--	--	--	--	--	--	
12/27/2001	--		7.50	12.50	7.78	12.33	--	--	--	--	--	--	--	--	--	
3/15/2002	--		7.50	12.50	8.22	11.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	12.50	7.65	12.46	--	--	--	--	--	--	--	--	--	
7/23/2002	--		7.50	12.50	9.18	10.93	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
10/16/2002	--	20.11	7.50	12.50	9.51	10.60	--	--	--	--	--	--	--	--	--	
1/23/2003	--		7.50	12.50	7.86	12.25	--	--	--	--	--	--	--	--	--	
4/7/2003	--		7.50	12.50	8.58	11.53	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.50	12.50	9.23	10.88	--	--	--	--	--	--	--	--	--	
10/23/2003	P		7.50	12.50	9.44	10.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		7.50	12.50	8.08	12.03	--	--	--	--	--	--	--	--	--	
04/20/2004	--	25.32	7.50	12.50	9.28	16.04	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.50	12.50	9.65	15.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.0	
11/04/2004	--		7.50	12.50	8.53	16.79	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.50	12.50	7.04	18.28	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.50	12.50	6.95	18.37	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.50	12.50	8.05	17.27	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.50	12.50	8.70	16.62	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	12.50	10.00	15.32	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	12.50	7.19	18.13	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.50	12.50	8.80	16.52	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.50	12.50	9.17	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	12.50	8.68	16.64	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.50	12.50	9.18	16.14	--	--	--	--	--	--	--	--	--	
10/1/2007	--		7.50	12.50	9.45	15.87	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	12.50	7.58	17.74	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.50	12.50	9.34	15.98	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.50	12.50	9.64	15.68	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	12.50	9.25	16.07	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	12.50	8.66	16.66	--	--	--	--	--	--	--	--	--	
7/21/2009	--		7.50	12.50	9.42	15.90	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
1/12/2010	--	25.32	7.50	12.50	8.86	16.46	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	12.50	8.20	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.50	12.50	7.80	17.52	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.50	12.50	8.89	16.43	--	--	--	--	--	--	--	--	--	
1/17/2012	--		7.50	12.50	9.50	15.82	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
MW-13																
11/16/1992	--	22.45	--	--	9.02	13.43	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		--	--	7.14	15.31	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		--	--	7.95	14.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		--	--	8.57	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		--	--	8.86	13.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		--	--	7.78	14.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		--	--	8.38	14.07	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		--	--	8.78	13.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		--	--	7.68	14.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		--	--	6.91	15.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		--	--	7.72	14.73	--	--	--	--	--	--	--	--	--	
8/31/1995	--		--	--	7.58	14.87	--	--	--	--	--	--	--	--	--	
11/27/1995	--		--	--	7.98	14.47	--	--	--	--	--	--	--	--	--	
2/22/1996	--		--	--	6.71	15.74	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		--	--	6.98	15.47	--	--	--	--	--	--	--	--	--	
8/26/1996	--		--	--	7.85	14.60	--	--	--	--	--	--	--	--	--	
11/20/1996	--		--	--	7.76	14.69	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.75	--	--	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		--	--	8.16	12.59	--	--	--	--	--	--	--	--	--	
8/19/1997	--		--	--	8.40	12.35	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-13 Cont.																
11/19/1997	--	20.75	--	--	8.40	12.35	--	--	--	--	--	--	--	--	--	
2/19/1998	--		--	--	6.44	14.31	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		--	--	6.80	13.95	--	--	--	--	--	--	--	--	--	
7/27/1998	--		--	--	7.52	13.23	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
10/14/1998	--		--	--	8.15	12.60	<50	<0.5	<0.5	<0.5	<0.5	<3	--	2.0	--	
1/21/1999	--		--	--	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		--	--	7.82	12.93	--	--	--	--	--	--	--	--	--	
8/23/1999	--		--	--	8.29	12.46	--	--	--	--	--	--	--	0.94	--	
10/28/1999	--		--	--	8.55	12.20	--	--	--	--	--	--	--	--	--	
2/4/2000	--		--	--	8.11	12.64	<50	<0.5	0.6	<0.5	<1	<3	--	1.27	--	
6/20/2000	--		--	--	7.56	13.19	--	--	--	--	--	--	--	--	--	
9/29/2000	--		--	--	8.27	12.48	--	--	--	--	--	--	--	--	--	
12/17/2000	--		--	--	8.09	12.66	--	--	--	--	--	--	--	--	--	
3/28/2001	--		--	--	7.69	13.06	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		--	--	8.46	12.29	--	--	--	--	--	--	--	--	--	
9/22/2001	--		--	--	8.57	12.18	--	--	--	--	--	--	--	--	--	
12/27/2001	--		--	--	7.14	13.61	--	--	--	--	--	--	--	--	--	
3/15/2002	--		--	--	7.62	13.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		--	--	6.91	13.84	--	--	--	--	--	--	--	--	--	
7/23/2002	--		--	--	8.50	12.25	--	--	--	--	--	--	--	--	--	
10/16/2002	--		--	--	8.74	12.01	--	--	--	--	--	--	--	--	--	
1/23/2003	P		--	--	7.35	13.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	3.4	7.0	g
4/7/2003	--		--	--	7.99	12.76	--	--	--	--	--	--	--	--	--	
8/7/2003	--		--	--	8.60	12.15	--	--	--	--	--	--	--	--	--	
10/23/2003	P		--	--	8.55	12.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		--	--	7.56	13.19	--	--	--	--	--	--	--	--	--	
04/20/2004	--	25.01	--	--	4.57	20.44	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		--	--	8.71	16.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	6.9	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-13 Cont.																
11/04/2004	--	25.01	--	--	7.79	17.22	--	--	--	--	--	--	--	--	--	
01/10/2005	--		--	--	6.80	18.21	--	--	--	--	--	--	--	--	--	
04/14/2005	--		--	--	6.88	18.13	--	--	--	--	--	--	--	--	--	
08/02/2005	--		--	--	7.15	17.86	--	--	--	--	--	--	--	--	--	
10/21/2005	--		--	--	7.96	17.05	--	--	--	--	--	--	--	--	--	
01/04/2006	--		--	--	7.64	17.37	--	--	--	--	--	--	--	--	--	
04/28/2006	--		--	--	6.97	18.04	--	--	--	--	--	--	--	--	--	
8/4/2006	--		--	--	8.18	16.83	--	--	--	--	--	--	--	--	--	
10/23/2006	--		--	--	8.51	16.50	--	--	--	--	--	--	--	--	--	
1/15/2007	--		--	--	7.91	17.10	--	--	--	--	--	--	--	--	--	
4/17/2007	--		--	--	8.04	16.97	--	--	--	--	--	--	--	--	--	
7/9/2007	--		--	--	8.50	16.51	--	--	--	--	--	--	--	--	--	
10/1/2007	--		--	--	8.72	16.29	--	--	--	--	--	--	--	--	--	
1/7/2008	--		--	--	8.27	16.74	--	--	--	--	--	--	--	--	--	
4/1/2008	--		--	--	7.88	17.13	--	--	--	--	--	--	--	--	--	
7/23/2008	--		--	--	6.40	18.61	--	--	--	--	--	--	--	--	--	
10/22/2008	--		--	--	8.86	16.15	--	--	--	--	--	--	--	--	--	
1/21/2009	--		--	--	8.54	16.47	--	--	--	--	--	--	--	--	--	
4/21/2009	--		--	--	7.96	17.05	--	--	--	--	--	--	--	--	--	
7/21/2009	--		--	--	8.77	16.24	--	--	--	--	--	--	--	--	--	
1/12/2010	--		--	--	8.21	16.80	--	--	--	--	--	--	--	--	--	
6/3/2010	--		--	--	7.51	17.50	--	--	--	--	--	--	--	--	--	
7/22/2010	--		--	--	8.18	16.83	--	--	--	--	--	--	--	--	--	
2/18/2011	--		--	--	7.28	17.73	--	--	--	--	--	--	--	--	--	
8/25/2011	--		--	--	8.20	16.81	--	--	--	--	--	--	--	--	--	
1/17/2012	--		--	--	8.71	16.30	--	--	--	--	--	--	--	--	--	
7/24/2012	--		--	--	8.23	16.78	--	--	--	--	--	--	--	--	--	
MW-14																

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
9/15/1992	--	22.99	7.50	13.50	10.66	12.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/16/1992	--		7.50	13.50	10.33	12.66	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	13.50	8.18	14.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	13.50	9.05	13.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	13.50	22.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	13.50	10.25	12.74	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	13.50	8.80	14.19	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	13.50	9.49	13.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	13.50	10.11	12.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	13.50	8.66	14.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	13.50	8.17	14.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	13.50	8.57	14.42	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	13.50	9.05	13.94	--	--	--	--	--	--	--	--	--	
11/27/1995	--		7.50	13.50	9.19	13.80	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	13.50	6.52	16.47	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	13.50	7.88	15.11	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	13.50	8.83	14.16	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	13.50	8.95	14.04	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.90	7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	13.50	9.61	11.29	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.50	13.50	9.80	11.10	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	13.50	9.80	11.10	<50	*1.7*	<0.5	0.6	3	<3	--	--	--	
2/19/1998	--		7.50	13.50	6.27	14.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	13.50	7.75	13.15	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
10/14/1998	--		7.50	13.50	9.73	11.17	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
1/21/1999	--		7.50	13.50	8.90	12.00	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.73	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
8/23/1999	--	20.90	7.50	13.50	9.68	11.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.91	--	
10/28/1999	--		7.50	13.50	10.00	10.90	<50	<0.5	<0.5	<0.5	<1	*<10*	--	1.06	--	
2/4/2000	--		7.50	13.50	8.19	12.71	<50	<0.5	0.5	<0.5	<1	<3	--	1.21	--	
6/20/2000	--		7.50	13.50	9.16	11.74	<50	<0.5	<0.5	<0.5	<1.0	*<10*	--	--	--	
9/29/2000	--		7.50	13.50	9.48	11.42	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		7.50	13.50	8.91	11.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	13.50	9.70	11.20	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--	
9/22/2001	--		7.50	13.50	10.04	10.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		7.50	13.50	8.33	12.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		7.50	13.50	8.75	12.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	13.50	8.21	12.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
7/23/2002	NP		7.50	13.50	9.76	11.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.1	
10/16/2002	NP		7.50	13.50	10.10	10.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.1	5.8	
1/23/2003	NP		7.50	13.50	8.41	12.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.3	7.1	g
4/7/2003	--		7.50	13.50	9.09	11.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.9	
8/7/2003	--		7.50	13.50	9.81	11.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.7	
10/23/2003	P		7.50	13.50	10.04	10.86	--	--	--	--	--	--	--	--	--	
01/12/2004	P		7.50	13.50	8.89	12.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.0	7.2	
04/20/2004	--	25.55	7.50	13.50	9.62	15.93	--	--	--	--	--	--	--	--	--	r
07/01/2004	NP		7.50	13.50	10.03	15.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.6	6.7	
11/04/2004	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		7.50	13.50	7.61	17.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.06	6.9	
04/14/2005	--		7.50	13.50	7.70	17.85	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		7.50	13.50	8.73	16.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.9	
10/21/2005	--		7.50	13.50	9.47	16.08	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	13.50	6.92	18.63	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	13.50	7.71	17.84	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
8/4/2006	NP	25.55	7.50	13.50	9.32	16.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.95	6.8	
10/23/2006	--		7.50	13.50	9.66	15.89	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	13.50	9.05	16.50	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	13.50	9.16	16.39	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		7.50	13.50	9.67	15.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.87	7.13	
10/1/2007	--		7.50	13.50	9.95	15.60	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	13.50	8.74	16.81	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		7.50	13.50	9.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.18	6.93	
10/22/2008	--		7.50	13.50	10.20	15.35	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	13.50	9.81	15.74	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	13.50	9.22	16.33	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		7.50	13.50	9.90	15.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	11.04	7.21	
1/12/2010	--		7.50	13.50	9.31	16.24	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	13.50	8.71	16.84	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		7.50	13.50	9.45	16.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
2/18/2011	--		7.50	13.50	7.92	17.63	--	--	--	--	--	--	--	--	--	
8/25/2011	P		7.50	13.50	9.43	16.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.58	7.1	
1/17/2012	--		7.50	13.50	10.04	15.51	--	--	--	--	--	--	--	--	--	
7/24/2012	P		7.50	13.50	9.49	16.06	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	1.22	7.09	
MW-15																
5/13/1993	--	19.19	5.50	10.50	5.91	13.28	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		5.50	10.50	6.54	12.65	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		5.50	10.50	6.98	12.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		5.50	10.50	5.44	13.75	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		5.50	10.50	6.84	12.35	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		5.50	10.50	5.31	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
3/17/1995	--	19.19	5.50	10.50	5.21	13.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		5.50	10.50	5.84	13.35	--	--	--	--	--	--	--	--	--	
8/31/1995	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
11/27/1995	--		5.50	10.50	6.42	12.77	--	--	--	--	--	--	--	--	--	
2/22/1996	--		5.50	10.50	4.84	14.35	<50	<0.5	<0.5	<0.5	<0.5	*12*	--	--	--	
5/20/1996	--		5.50	10.50	5.31	13.88	--	--	--	--	--	--	--	--	--	
8/26/1996	--		5.50	10.50	6.05	13.14	<50	<0.5	<0.5	<0.5	<0.5	*8*	--	--	--	
11/20/1996	--		5.50	10.50	5.46	13.73	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.08	5.50	10.50	6.00	16.08	<50	<0.5	<0.5	<0.5	<0.5	*15*	--	--	--	
5/23/1997	--		5.50	10.50	6.25	15.83	--	--	--	--	--	--	--	--	--	
8/19/1997	--		5.50	10.50	6.34	15.74	99	<0.5	<0.5	<0.5	0.7	*6*	--	--	--	j
11/19/1997	--		5.50	10.50	6.34	15.74	--	--	--	--	--	--	--	--	--	
2/19/1998	--		5.50	10.50	4.66	17.42	<50	<0.5	<0.5	<0.5	<0.5	*48*	--	--	--	
4/23/1998	--		5.50	10.50	5.18	16.90	--	--	--	--	--	--	--	--	--	
7/27/1998	--		5.50	10.50	6.02	16.06	<50	<0.5	<0.5	<0.5	<0.5	*50*	--	1.0	--	
10/14/1998	--		5.50	10.50	6.26	15.82	<50	<0.5	<0.5	<0.5	<0.5	*27*	--	1.5	--	
1/21/1999	--		5.50	10.50	5.33	16.75	<50	<0.5	<0.5	<0.5	<0.5	*6*	--	1.0	--	
5/6/1999	--		5.50	10.50	5.82	16.26	--	--	--	--	--	--	--	--	--	
8/23/1999	--		5.50	10.50	6.24	15.84	<50	<0.5	<0.5	<0.5	<0.5	*21*	--	1.14	--	
10/28/1999	--		5.50	10.50	6.60	15.48	--	--	--	--	--	--	--	--	--	
2/4/2000	--		5.50	10.50	7.02	15.06	<50	<0.5	<0.5	<0.5	<1	<3	--	1.09	--	
6/20/2000	--		5.50	10.50	5.98	16.10	--	--	--	--	--	--	--	--	--	
9/29/2000	--		5.50	10.50	6.50	15.58	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		5.50	10.50	5.89	16.19	--	--	--	--	--	--	--	--	--	
3/28/2001	--		5.50	10.50	5.78	16.30	<50	<0.5	<0.5	<0.5	<0.5	*11.1*	--	--	--	
6/20/2001	--		5.50	10.50	5.72	16.36	--	--	--	--	--	--	--	--	--	
9/22/2001	--		5.50	10.50	6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	*13*	--	--	--	
12/27/2001	--		5.50	10.50	5.49	16.59	--	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
3/15/2002	--	22.08	5.50	10.50	5.68	16.40	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		5.50	10.50	4.85	17.23	--	--	--	--	--	--	--	--	--	
7/23/2002	P		5.50	10.50	6.32	15.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	2.0	7.9	
10/16/2002	--		5.50	10.50	6.69	15.39	--	--	--	--	--	--	--	--	--	
1/23/2003	P		5.50	10.50	5.70	16.38	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	2.6	7.5	g
4/7/2003	--		5.50	10.50	5.94	16.14	--	--	--	--	--	--	--	--	--	
8/7/2003	--		5.50	10.50	6.32	15.76	--	--	--	--	--	--	--	--	--	
10/23/2003	--		5.50	10.50	6.56	15.52	--	--	--	--	--	--	--	--	--	
01/12/2004	--		5.50	10.50	5.71	16.37	--	--	--	--	--	--	--	--	--	
04/20/2004	--	21.72	5.50	10.50	7.10	14.62	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		5.50	10.50	7.18	14.54	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.6	7.3	
11/04/2004	--		5.50	10.50	5.90	15.82	--	--	--	--	--	--	--	--	--	
01/10/2005	--		5.50	10.50	5.30	16.42	--	--	--	--	--	--	--	--	--	
04/14/2005	--		5.50	10.50	5.40	16.32	--	--	--	--	--	--	--	--	--	
08/02/2005	P		5.50	10.50	5.33	16.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.5	
10/21/2005	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
01/04/2006	--		5.50	10.50	5.19	16.53	--	--	--	--	--	--	--	--	--	
04/28/2006	--		5.50	10.50	5.45	16.27	--	--	--	--	--	--	--	--	--	
8/4/2006	P		5.50	10.50	5.99	15.73	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.49	7.1	
10/23/2006	--		5.50	10.50	6.36	15.36	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	10.50	6.00	15.72	--	--	--	--	--	--	--	--	--	
4/17/2007	--		5.50	10.50	5.98	15.74	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		5.50	10.50	6.26	15.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.77	7.44	
10/1/2007	--		5.50	10.50	6.53	15.19	--	--	--	--	--	--	--	--	--	
1/7/2008	--		5.50	10.50	6.12	15.60	--	--	--	--	--	--	--	--	--	
4/1/2008	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		5.50	10.50	6.30	15.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.07	7.32	
10/22/2008	--		5.50	10.50	6.69	15.03	--	--	--	--	--	--	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
1/21/2009	--	21.72	5.50	10.50	6.22	15.50	--	--	--	--	--	--	--	--	--	
4/21/2009	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		5.50	10.50	6.34	15.38	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	9.63	7.63	
1/12/2010	--		5.50	10.50	5.93	15.79	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/22/2010	P		5.50	10.50	6.25	15.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.11	7.30	
2/18/2011	--		5.50	10.50	8.48	13.24	--	--	--	--	--	--	--	--	--	
8/25/2011	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<0.50	2.9	--	0.88	7.2	
1/17/2012	--		5.50	10.50	6.88	14.84	--	--	--	--	--	--	--	--	--	
7/24/2012	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<1.0	0.59	--	1.56	7.45	
MW-16																
7/21/2009	P	22.89	--	--	12.90	9.99	***1,500***	*2.3*	13	*36*	***300***	0.68	--	14.83	7.71	
1/12/2010	P		--	--	6.67	16.22	***1,700***	*6.8*	4.3	***71***	*48*	<0.50	--	1.24	6.8	
6/3/2010	P		--	--	6.13	16.76	***4,100***	*28*	9.2	***420***	***170***	<1.0	--	--	7.10	
7/22/2010	NP		--	--	6.83	16.06	***6,400***	*34*	13	***570***	***210***	<1.0	--	0.68	6.95	
2/18/2011	NP		--	--	5.60	17.29	***1,100***	*6.1*	2.2	8.7	*23*	<0.50	--	1.18	6.66	
8/25/2011	P		--	--	6.70	16.19	***2,800***	*31*	17	***180***	***480***	<4.0	--	0.75	7.0	
1/17/2012	P		--	--	7.29	15.60	***1,300***	*7.9*	3.8	***66***	*48*	<1.0	--	0.42	7.30	
7/24/2012	P		--	--	6.75	16.14	***2,900***	*30*	11	***240***	***310***	<2.0	--	1.09	7.25	
MW-17																
7/21/2009	P	23.42	--	--	7.58	15.84	***3,700***	***61***	***160***	***150***	***1,300***	2.8	--	11.48	7.57	
1/12/2010	P		--	--	6.98	16.44	***11,000***	***110***	*72*	***1,100***	***1,600***	*<10*	--	1.02	6.80	
6/3/2010	P		--	--	6.37	17.05	***19,000***	***140***	*45*	***1,200***	***2,600***	*<25*	--	1.26	6.99	
7/22/2010	NP		--	--	7.05	16.37	***21,000***	***160***	*63*	***1,300***	***2,800***	*<25*	--	0.50	7.00	
2/18/2011	NP		--	--	6.33	17.09	***9,400***	***58***	<10	***480***	***930***	*<10*	--	2.84	6.7	
8/25/2011	P		--	--	6.96	16.46	***5,500***	***140***	<10	***250***	***870***	*<10*	--	0.47	7.1	
1/17/2012	P		--	--	7.62	15.80	***4,000***	***72***	13	***180***	***360***	<2.5	--	0.36	7.35	

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-17 Cont.																
7/24/2012	P	23.42	--	--	7.02	16.40	***1,600***	***83***	4.6	***100***	*92*	<1.0	--	1.00	7.21	
MW-18																
7/21/2009	P	24.48	--	--	8.73	15.75	***290***	*1.1*	<0.50	8.0	1.4	4.8	--	14.25	7.69	
1/12/2010	P		--	--	7.95	16.53	***1,000***	*2.4*	<1.0	***57***	<1.0	*5.8*	--	1.79	6.8	
6/3/2010	--		--	--	7.33	17.15	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		--	--	8.02	16.46	***760***	*3.5*	<0.50	27	<0.50	*5.1*	--	0.71	7.09	w
2/18/2011	NP		--	--	7.38	17.10	***360***	<0.50	<0.50	<0.50	<0.50	3.8	--	2.80	6.9	x (GRO)
8/25/2011	P		--	--	8.00	16.48	***640***	*3.4*	<0.50	4.1	<0.50	4.9	--	0.61	7.1	x (GRO)
1/17/2012	P		--	--	8.61	15.87	*140*	<0.50	<0.50	<0.50	<0.50	2.5	--	0.45	7.5	x (GRO)
7/24/2012	P		--	--	8.02	16.46	*150*	<0.50	<0.50	<0.50	<1.0	1.8	--	0.90	7.40	
MW-19																
7/21/2009	P	25.10	--	--	9.34	15.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	13.65	8.03	
1/12/2010	--		--	--	6.75	18.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		--	--	8.14	16.96	--	--	--	--	--	--	--	--	--	
2/18/2011	--		--	--	7.51	17.59	--	--	--	--	--	--	--	--	--	
8/25/2011	P		--	--	6.02	19.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.35	7.2	
1/17/2012	--		--	--	9.47	15.63	--	--	--	--	--	--	--	--	--	
7/24/2012	--		--	--	8.88	16.22	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
SB-1																
3/9/2011	--	NS	--	--	--	--	***19,000***	***120***	*<50*	***76***	*<50*	*<50*	--	--	--	x (GRO), SB-1-GW
SB-2																
3/9/2011	--	NS	--	--	--	--	***140,000***	***380***	<12	***130***	<12	*<12*	--	--	--	SB-2-GW
SB-3																
3/9/2011	--	NS	--	--	--	--	***9,400***	*2.5*	2.3	1.9	3.4	2.1	--	--	--	x (GRO), SB-3-GW
SB-4																

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
SB-4 Cont.																
3/9/2011	--	NS	--	--	--	--	***12,000***	*<2.0*	<2.0	9.1	<2.0	2.2	--	--	--	x (GRO), SB-4-GW

Symbols & Abbreviations:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged before sampling
P = Well purged before sampling
Semi-VOCs = Semivolatile organic compounds
TOC = Top of casing in ft
TPH-g = Total petroleum hydrocarbons as gasoline
g/L = Micrograms per liter
ND = Not detected above the various semi-VOCs laboratory reporting limits

Footnotes:
a = Sheen in well
b = Well is dry
c = Insufficient water to sample
d = Chromatogram Pattern: Gasoline C6-C10
e = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel
g = TPH, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed by EPA Method 8260B beginning on the 1st quarter 2003 sampling event (1/23/03)
h = This sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose
i = GWE adjusted using the formula GWE = (TOC-DTW) + (free product (FP) thickness x 0.8)
j = Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint
k = DO reading not taken due to the presence of sheen
l = FP in well
m = Gauged with ORC sock in well
n = Method reporting limit for benzene, toluene, ethylbenzene, and/or total xylenes was raised due to high analyte concentration requiring sample dilution or matrix interference
o = Well dewatered
p = Well inaccessible
q = Insufficient sample available to follow standard QC proceedures
r = Wells resurveyed February 27, 2004
s = Reporting limits elevated due to matrix interferences (SVOCs)
t = Sample preserved improperly
u = Reporting limits raised due to high level of non-target analytes (SVOCs)
v = Wells surveyed June 23, 2009
w = Quantitation of unknown hydrocarbon(s) in sample based on baseline
x = Quantitated against gasoline

Notes:
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 of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported

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

Values for DO and pH were obtained through field measurements

Top and bottom of screen measurements for wells MW-1 to MW-3, and MW-7 were taken from Delta Environmental Consulting Inc. sampling sheets because the well construction logs were not available

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

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 #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1									
2/22/1996	--	--	*<1,000*	--	--	--	--	--	
5/20/1996	--	--	*<1,000*	--	--	--	--	--	
8/26/1996	--	--	*<1,000*	--	--	--	--	--	
11/20/1996	--	--	*<300*	--	--	--	--	--	
3/24/1997	--	--	*<1,000*	--	--	--	--	--	
5/23/1997	--	--	*<300*	--	--	--	--	--	
8/19/1997	--	--	*<600*	--	--	--	--	--	
11/19/1997	--	--	***<3,000***	--	--	--	--	--	
2/19/1998	--	--	*<300*	--	--	--	--	--	
4/23/1998	--	--	***<3,000***	--	--	--	--	--	
7/27/1998	--	--	*<300*	--	--	--	--	--	
10/14/1998	--	--	*<300*	--	--	--	--	--	
1/21/1999	--	--	*<300*	--	--	--	--	--	
5/6/1999	--	--	*<120*	--	--	--	--	--	
8/23/1999	--	--	*<75*	--	--	--	--	--	
10/28/1999	--	--	*<200*	--	--	--	--	--	
2/4/2000	--	--	*<60*	--	--	--	--	--	
6/20/2000	--	--	*<200*	--	--	--	--	--	
9/29/2000	--	--	*<250*	--	--	--	--	--	
12/17/2000	--	--	*<250*	--	--	--	--	--	
3/28/2001	--	--	*<500*	--	--	--	--	--	
6/20/2001	--	--	*100*	--	--	--	--	--	
9/22/2001	--	--	*<1000*	--	--	--	--	--	
12/27/2001	--	--	*290*	--	--	--	--	--	
3/15/2002	--	--	*<250*	--	--	--	--	--	
4/18/2002	--	--	*<250*	--	--	--	--	--	
7/23/2002	--	--	*<250*	--	--	--	--	--	
10/16/2002	--	--	*<120*	--	--	--	--	--	
1/23/2003	<4,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1 Cont.									
4/7/2003	<1,000	*<200*	*69*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
8/7/2003	<5,000	*<1,000*	*160*	<25	<25	<25	*<25*	*<25*	
10/23/2003	--	*<1,000*	*220*	<25	<25	<25	*<25*	*<25*	
01/12/2004	<5,000	*<1,000*	*140*	<50	<50	<50	*<25*	*<25*	
04/20/2004	<5,000	*<1,000*	*84*	<25	<25	<25	*<25*	*<25*	
07/01/2004	<2,000	*<400*	*100*	<10	<10	<10	*<10*	*<10*	
11/04/2004	<1,000	*<200*	*130*	<5.0	<5.0	5.5	*<5.0*	*<5.0*	
01/10/2005	<1,000	*<200*	*12*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
04/14/2005	<1,000	*<200*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
08/02/2005	<100	*530*	*15*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	c
10/21/2005	<1,000	*<200*	*64*	<5.0	<5.0	6.2	*<5.0*	*<5.0*	
01/04/2006	<1,000	*<200*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	b
04/28/2006	<3,000	*<200*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	a
8/4/2006	<3,000	*<200*	*14*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/23/2006	<3,000	*<200*	*16*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	b
1/15/2007	--	--	--	--	--	--	--	--	Not sampled due to presence of free product
4/17/2007	<6,000	*<400*	*<10*	<10	<10	<10	*<10*	*<10*	
7/9/2007	<3,000	*<200*	*81*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/1/2007	<3,000	*<200*	*9.3*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
1/7/2008	<3,000	*<200*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
4/1/2008	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	e
7/23/2008	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	
10/22/2008	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	
1/21/2009	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	
4/21/2009	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	h
7/21/2009	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	h
1/12/2010	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	h
7/22/2010	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
2/18/2011	<1,200	*<40*	<2.0	<2.0	<2.0	<2.0	*<2.0*	*<2.0*	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1 Cont.									
8/25/2011	<1,500	*<50*	<2.5	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
1/17/2012	<600	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
7/24/2012	<300	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
MW-2									
8/31/1995	--	--	*<50*	--	--	--	--	--	
2/22/1996	--	--	*<50*	--	--	--	--	--	
3/24/1997	--	--	*67*	--	--	--	--	--	
2/19/1998	--	--	*25*	--	--	--	--	--	
1/21/1999	--	--	*13*	--	--	--	--	--	
3/28/2001	--	--	*39.5*	--	--	--	--	--	
3/15/2002	--	--	*75*	--	--	--	--	--	
1/23/2003	<4,000	*<2,000*	*95*	<50	<50	<50	*<50*	*<50*	
10/23/2003	--	*<100*	*68*	<2.5	<2.5	16	*<2.5*	*<2.5*	
07/01/2004	<100	*28*	*72*	<0.50	<0.50	15	<0.50	*<0.50*	
08/02/2005	<100	*<20*	*12*	<0.50	<0.50	3.4	<0.50	*<0.50*	
8/4/2006	<300	*21*	*7.9*	<0.50	<0.50	2.3	<0.50	*<0.50*	
7/9/2007	<300	*<20*	3.2	<0.50	<0.50	0.98	<0.50	*<0.50*	
7/23/2008	<300	<10	0.78	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<10	0.83	<0.50	<0.50	<0.50	<0.50	*<0.50*	
6/3/2010	<300	<10	1.2	<0.50	<0.50	0.76	<0.50	*<0.50*	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-3									
2/22/1996	--	--	***<3,000***	--	--	--	--	--	
5/20/1996	--	--	***<3,000***	--	--	--	--	--	
8/26/1996	--	--	***<2,000***	--	--	--	--	--	
11/20/1996	--	--	*<1,000*	--	--	--	--	--	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
3/24/1997	--	--	***<5,000***	--	--	--	--	--	
5/23/1997	--	--	*<700*	--	--	--	--	--	
8/19/1997	--	--	*<600*	--	--	--	--	--	
11/19/1997	--	--	*<600*	--	--	--	--	--	
2/19/1998	--	--	*<600*	--	--	--	--	--	
4/23/1998	--	--	*<600*	--	--	--	--	--	
7/27/1998	--	--	*<600*	--	--	--	--	--	
10/14/1998	--	--	*970*	--	--	--	--	--	
1/21/1999	--	--	*<600*	--	--	--	--	--	
5/6/1999	--	--	*170*	--	--	--	--	--	
8/23/1999	--	--	*<150*	--	--	--	--	--	
10/28/1999	--	--	***<5,000***	--	--	--	--	--	
2/4/2000	--	--	*650*	--	--	--	--	--	
6/20/2000	--	--	*<500*	--	--	--	--	--	
9/29/2000	--	--	*<250*	--	--	--	--	--	
3/28/2001	--	--	*<1,000*	--	--	--	--	--	
6/20/2001	--	--	***<2,500***	--	--	--	--	--	
9/22/2001	--	--	*<1,000*	--	--	--	--	--	
12/27/2001	--	--	*<250*	--	--	--	--	--	
3/15/2002	--	--	*<250*	--	--	--	--	--	
7/23/2002	--	--	*<250*	--	--	--	--	--	
10/16/2002	--	--	*<250*	--	--	--	--	--	
1/23/2003	<8,000	*<4,000*	*<100*	<100	<100	<100	*<100*	*<100*	
4/7/2003	<10,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
8/7/2003	<20,000	*<4,000*	*<100*	<100	<100	<100	*<100*	*<100*	
10/23/2003	--	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
01/12/2004	<1,000	*<200*	<5.0	<10	<10	<10	*<5.0*	*<5.0*	
04/20/2004	<10,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
07/01/2004	<10,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
11/23/2004	<10,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
01/10/2005	<20,000	*<4,000*	*<100*	<100	<100	<100	*<100*	*<100*	
04/14/2005	<5,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
08/02/2005	<5,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
10/21/2005	<10,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
01/04/2006	<5,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	b
04/28/2006	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
8/4/2006	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
10/23/2006	<3,000	*<200*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	b
1/15/2007	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
4/17/2007	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
7/9/2007	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
10/1/2007	<15,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	d
4/1/2008	<60,000	*<2,000*	*<100*	<100	<100	<100	*<100*	*<100*	
7/23/2008	<3,000	*<100*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/22/2008	<75,000	*<2,500*	*<120*	<120	<120	<120	*<120*	*<120*	
1/21/2009	<60,000	*<2,000*	*<100*	<100	<100	<100	*<100*	*<100*	
4/21/2009	<30,000	*<1,000*	*<50*	<50	<50	<50	*<50*	*<50*	
7/21/2009	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
1/12/2010	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
6/3/2010	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
7/22/2010	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
2/18/2011	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
8/25/2011	<12,000	*<400*	*<20*	<20	<20	<20	*<20*	*<20*	
1/17/2012	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
7/24/2012	<1,500	*<100*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
MW-4									
8/31/1995	--	--	*<100*	--	--	--	--	--	
2/22/1996	--	--	*<20*	--	--	--	--	--	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-4 Cont.									
5/20/1996	--	--	*<100*	--	--	--	--	--	
8/26/1996	--	--	*<100*	--	--	--	--	--	
11/20/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	*<50*	--	--	--	--	--	
5/23/1997	--	--	*<60*	--	--	--	--	--	
11/19/1997	--	--	*<60*	--	--	--	--	--	
2/19/1998	--	--	*110*	--	--	--	--	--	
4/23/1998	--	--	*93*	--	--	--	--	--	
7/27/1998	--	--	*<120*	--	--	--	--	--	
10/14/1998	--	--	*63*	--	--	--	--	--	
1/21/1999	--	--	*13*	--	--	--	--	--	
5/6/1999	--	--	*41*	--	--	--	--	--	
8/23/1999	--	--	*57*	--	--	--	--	--	
10/28/1999	--	--	*16*	--	--	--	--	--	
2/4/2000	--	--	*8*	--	--	--	--	--	
6/20/2000	--	--	*46*	--	--	--	--	--	
6/20/2001	--	--	*110*	--	--	--	--	--	
9/22/2001	--	--	*100*	--	--	--	--	--	
12/27/2001	--	--	*15*	--	--	--	--	--	
3/15/2002	--	--	*12*	--	--	--	--	--	
4/18/2002	--	--	3.7	--	--	--	--	--	
7/23/2002	--	--	*41*	--	--	--	--	--	
10/16/2002	--	--	*<25*	--	--	--	--	--	
1/23/2003	<200	*<100*	*5.9*	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
4/7/2003	<100	*<20*	*9.2*	<0.5	<0.5	0.61	<0.5	*<0.50*	
8/7/2003	<5,000	*<1,000*	*<25*	<25	<25	<25	*<25*	*<25*	
10/23/2003	--	*<100*	*12*	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
01/12/2004	<500	*<100*	4.3	<5.0	<5.0	<5.0	*<2.5*	*<2.5*	
04/20/2004	<1,000	*<200*	*12*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-4 Cont.									
07/01/2004	<500	*<100*	*15*	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
11/04/2004	<200	*<40*	*5.7*	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
01/10/2005	<100	*<20*	2.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
04/14/2005	<100	*<20*	4.5	<0.50	<0.50	0.61	<0.50	*<0.50*	
08/02/2005	<100	*<20*	*7.1*	<0.50	<0.50	0.97	*3.7*	*<0.50*	
10/21/2005	<200	*<40*	*10*	<1.0	<1.0	1.3	*<1.0*	*<1.0*	b
01/04/2006	<200	*<40*	3.7	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	b
04/28/2006	<600	*<40*	3.7	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
8/4/2006	<3,000	*<200*	*15*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/23/2006	<300	*<20*	*16*	<0.50	<0.50	5.5	<0.50	*<0.50*	b
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	*<40*	3.5	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
7/9/2007	<1,200	*<80*	*14*	<2.0	<2.0	<2.0	*<2.0*	*<2.0*	
10/1/2007	<600	*<40*	*11*	<1.0	<1.0	1.6	*<1.0*	*<1.0*	
1/7/2008	<300	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
4/1/2008	<300	<10	0.68	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	--	--	--	--	--	--	--	--	f
10/22/2008	--	--	--	--	--	--	--	--	f
4/21/2009	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
6/3/2010	<300	<10	2.3	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-5									
8/31/1995	--	--	*<500*	--	--	--	--	--	
2/22/1996	--	--	*<500*	--	--	--	--	--	
5/20/1996	--	--	*<500*	--	--	--	--	--	
8/26/1996	--	--	*<300*	--	--	--	--	--	
11/20/1996	--	--	*<500*	--	--	--	--	--	
3/24/1997	--	--	*<500*	--	--	--	--	--	
5/23/1997	--	--	*<600*	--	--	--	--	--	
8/19/1997	--	--	*<300*	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
11/19/1997	--	--	*<300*	--	--	--	--	--	
2/19/1998	--	--	*<300*	--	--	--	--	--	
4/23/1998	--	--	*<600*	--	--	--	--	--	
7/27/1998	--	--	*<600*	--	--	--	--	--	
10/14/1998	--	--	*<300*	--	--	--	--	--	
1/21/1999	--	--	*<600*	--	--	--	--	--	
5/6/1999	--	--	*12*	--	--	--	--	--	
8/23/1999	--	--	*67*	--	--	--	--	--	
10/28/1999	--	--	*<250*	--	--	--	--	--	
2/4/2000	--	--	*<75*	--	--	--	--	--	
6/20/2000	--	--	*<200*	--	--	--	--	--	
3/28/2001	--	--	*<250*	--	--	--	--	--	
6/20/2001	--	--	*<100*	--	--	--	--	--	
12/27/2001	--	--	*<250*	--	--	--	--	--	
3/15/2002	--	--	*<250*	--	--	--	--	--	
4/18/2002	--	--	*<250*	--	--	--	--	--	
7/23/2002	--	--	*110*	--	--	--	--	--	
10/16/2002	--	--	*<100*	--	--	--	--	--	
1/23/2003	<4,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
4/7/2003	<500	*<100*	*32*	<2.5	<2.5	6.3	*<2.5*	*<2.5*	
8/7/2003	<100	*<20*	3.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/23/2003	--	*<20*	*12*	<0.50	<0.50	1.7	<0.50	*<0.50*	
01/12/2004	<100	*<20*	*11*	<1.0	<1.0	1.3	<0.50	*<0.50*	
04/20/2004	<100	*<20*	*12*	<0.50	<0.50	3.0	<0.50	*<0.50*	
07/01/2004	<100	*<20*	*11*	<0.50	<0.50	2.0	<0.50	*<0.50*	
11/04/2004	<100	*<20*	*9.4*	<0.50	<0.50	2.0	<0.50	*<0.50*	
01/10/2005	<100	*<20*	*40*	<0.50	<0.50	9.7	<0.50	*<0.50*	
04/14/2005	<1,000	*<200*	*40*	<5.0	<5.0	9.3	*<5.0*	*<5.0*	
08/02/2005	<500	*<100*	*19*	<2.5	<2.5	5.0	*9.2*	*<2.5*	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
10/21/2005	<1,000	*<200*	*16*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
01/04/2006	<1,000	*<200*	*30*	<5.0	<5.0	7.2	*<5.0*	*<5.0*	b
04/28/2006	<3,000	*<200*	*9.9*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
8/4/2006	<3,000	*<200*	*14*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/23/2006	<6,000	*<400*	*13*	<10	<10	<10	*<10*	*<10*	b
1/15/2007	<6,000	*<400*	*10*	<10	<10	<10	*<10*	*<10*	
4/17/2007	<3,000	*<200*	*5.9*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
7/9/2007	<3,000	*<200*	*6.9*	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
10/1/2007	<1,500	*<100*	4.2	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
1/7/2008	<1,500	*<100*	4.1	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
4/1/2008	<300	<10	1.8	<0.50	<0.50	0.70	<0.50	*<0.50*	
7/23/2008	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
10/22/2008	<3,000	*<100*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
1/21/2009	<3,000	*<100*	<5.0	<5.0	<5.0	<5.0	*<5.0*	*<5.0*	
4/21/2009	<300	<10	0.74	<0.50	<0.50	<0.50	<0.50	*<0.50*	
6/3/2010	<1,500	*<50*	<2.5	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
MW-6									
8/31/1995	--	--	*<500*	--	--	--	--	--	
2/22/1996	--	--	*<300*	--	--	--	--	--	
5/20/1996	--	--	*<300*	--	--	--	--	--	
8/26/1996	--	--	*<300*	--	--	--	--	--	
11/20/1996	--	--	*<300*	--	--	--	--	--	
3/24/1997	--	--	*<100*	--	--	--	--	--	
5/23/1997	--	--	*<300*	--	--	--	--	--	
2/19/1998	--	--	*<30*	--	--	--	--	--	
4/23/1998	--	--	*<60*	--	--	--	--	--	
7/27/1998	--	--	*<150*	--	--	--	--	--	
10/14/1998	--	--	*<120*	--	--	--	--	--	
1/21/1999	--	--	*<150*	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-6 Cont.									
5/6/1999	--	--	5	--	--	--	--	--	
8/23/1999	--	--	*<15*	--	--	--	--	--	
2/4/2000	--	--	*11*	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	*<25*	--	--	--	--	--	
4/18/2002	--	--	*52*	--	--	--	--	--	
1/23/2003	<200	*<100*	*17*	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	a
1/23/2003	<4,000	*<2,000*	*<50*	<50	<50	<50	*<50*	*<50*	
4/7/2003	<100	*<20*	*15*	<0.5	<0.5	2.1	<0.5	*<0.50*	
01/12/2004	<5,000	*<1,000*	*150*	<50	<50	<50	*<25*	*<25*	
11/04/2004	<2,000	*<400*	*230*	<10	<10	58	*<10*	*<10*	
01/10/2005	<5,000	*<1,000*	*240*	<25	<25	65	*<25*	*<25*	
04/14/2005	<1,000	*<200*	*210*	<5.0	<5.0	56	*<5.0*	*<5.0*	
08/02/2005	<1,000	*<200*	*150*	<5.0	<5.0	44	*<5.0*	*<5.0*	
10/21/2005	<1,000	*<200*	*110*	<5.0	<5.0	47	*<5.0*	*<5.0*	
01/04/2006	<500	*<100*	*130*	<2.5	<2.5	42	*<2.5*	*<2.5*	b
04/28/2006	<1,500	*<100*	*170*	<2.5	<2.5	59	*<2.5*	*<2.5*	
8/4/2006	<1,500	*<100*	*110*	<2.5	<2.5	39	*<2.5*	*<2.5*	
10/23/2006	--	--	--	--	--	--	--	--	g
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	*<40*	*24*	<1.0	<1.0	8.2	*<1.0*	*<1.0*	
7/9/2007	<300	*<20*	*51*	<0.50	<0.50	21	<0.50	*<0.50*	
1/7/2008	<300	*<20*	*37*	<0.50	<0.50	17	<0.50	*<0.50*	
4/1/2008	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	--	--	--	--	--	--	--	--	g
10/22/2008	--	--	--	--	--	--	--	--	g
MW-7									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-7 Cont.									
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
4/7/2003	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/7/2003	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/23/2003	--	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/12/2004	<100	*<20*	<0.50	<1.0	<1.0	<1.0	<0.50	*<0.50*	
04/20/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
11/04/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/10/2005	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
08/02/2005	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/4/2006	<300	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	--	--	--	--	--	--	--	--	g
MW-8									
8/31/1995	--	--	*520*	--	--	--	--	--	
11/27/1995	--	--	*560*	--	--	--	--	--	
2/22/1996	--	--	*110*	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-8 Cont.									
5/20/1996	--	--	*240*	--	--	--	--	--	
8/26/1996	--	--	*710*	--	--	--	--	--	
11/20/1996	--	--	*930*	--	--	--	--	--	
3/24/1997	--	--	*1,300*	--	--	--	--	--	
5/23/1997	--	--	*630*	--	--	--	--	--	
8/19/1997	--	--	*290*	--	--	--	--	--	
11/19/1997	--	--	*260*	--	--	--	--	--	
2/19/1998	--	--	*140*	--	--	--	--	--	
4/23/1998	--	--	*590*	--	--	--	--	--	
1/21/1999	--	--	*320*	--	--	--	--	--	
5/6/1999	--	--	*160*	--	--	--	--	--	
8/23/1999	--	--	5	--	--	--	--	--	
10/28/1999	--	--	*45*	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	*310*	--	--	--	--	--	
9/29/2000	--	--	*438*	--	--	--	--	--	
12/17/2000	--	--	*273*	--	--	--	--	--	
3/28/2001	--	--	*320*	--	--	--	--	--	
6/20/2001	--	--	*330*	--	--	--	--	--	
9/22/2001	--	--	*6.5*	--	--	--	--	--	
12/27/2001	--	--	*160*	--	--	--	--	--	
3/15/2002	--	--	*830*	--	--	--	--	--	
7/23/2002	--	--	*8.7*	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	2.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
4/7/2003	<100	*<20*	*19*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/7/2003	<100	*<20*	0.96	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/23/2003	--	*<20*	2.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/12/2004	<100	*<20*	*13*	<1.0	<1.0	<1.0	<0.50	*<0.50*	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-8 Cont.									
04/20/2004	<100	*<20*	*25*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	2.1	<0.50	<0.50	<0.50	<0.50	*<0.50*	
11/04/2004	<100	*<20*	*13*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/10/2005	<100	*<20*	*10*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
08/02/2005	<100	*<20*	*16*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/21/2005	--	--	--	--	--	--	--	--	Well inaccessible
8/4/2006	<300	*<20*	*16*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/9/2007	<300	*<20*	*17*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	<300	<10	*8.6*	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/22/2010	<300	<10	4.3	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	0.52	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	1.4	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-9									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	3.44	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	*7.8*	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-9 Cont.									
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	2.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	3.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	
08/02/2005	<100	*<20*	3.8	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/4/2006	<300	*<20*	4.0	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/9/2007	<300	*<20*	2.0	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	<300	<10	5.0	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<10	2.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/22/2010	<300	<10	4.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	2.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	3.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-10									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	<3.0	--	--	--	--	--	
9/29/2000	--	--	<2.5	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	3.8	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	1.4	<0.50	<0.50	<0.50	<0.50	*<0.50*	
4/7/2003	<100	*<20*	1.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/7/2003	<100	*<20*	1.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/12/2004	<100	*<20*	1.7	<1.0	<1.0	<1.0	<0.50	*<0.50*	
07/01/2004	<100	*<20*	2.1	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/10/2005	<100	*<20*	2.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	b
08/02/2005	<100	*<20*	1.7	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/04/2006	<100	*<20*	2.0	<0.50	<0.50	<0.50	<0.50	*<0.50*	b
8/4/2006	<300	*<20*	1.8	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/15/2007	<300	*<20*	2.2	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/9/2007	<300	*<20*	2.0	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/7/2008	<300	*<20*	2.1	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/21/2009	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<10	2.1	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/12/2010	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/22/2010	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	
2/18/2011	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/17/2012	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	*<0.50*	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
7/24/2012	<150	<10	1.4	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-11									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	*7*	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/23/2003	--	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-12									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
10/23/2003	--	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-13									
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-13 Cont.									
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
10/23/2003	--	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-14									
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	*<10*	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	*<10*	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	3.1	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-14 Cont.									
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
4/7/2003	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/7/2003	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/12/2004	<100	*<20*	<0.50	<1.0	<1.0	<1.0	<0.50	*<0.50*	
07/01/2004	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
01/10/2005	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
08/02/2005	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/4/2006	<300	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/9/2007	<300	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-15									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	*12*	--	--	--	--	--	
8/26/1996	--	--	*8*	--	--	--	--	--	
3/24/1997	--	--	*15*	--	--	--	--	--	
8/19/1997	--	--	*6*	--	--	--	--	--	
2/19/1998	--	--	*48*	--	--	--	--	--	
7/27/1998	--	--	*50*	--	--	--	--	--	
10/14/1998	--	--	*27*	--	--	--	--	--	
1/21/1999	--	--	*6*	--	--	--	--	--	
8/23/1999	--	--	*21*	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-15 Cont.									
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
3/28/2001	--	--	*11.1*	--	--	--	--	--	
9/22/2001	--	--	*13*	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	*<20*	1.9	<0.50	<0.50	<0.50	<0.50	*<0.50*	
07/01/2004	<100	*<20*	1.9	<0.50	<0.50	<0.50	<0.50	*<0.50*	
08/02/2005	<100	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/4/2006	<300	*<20*	2.1	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/9/2007	<300	*<20*	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/21/2009	<300	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	2.9	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	0.59	<0.50	<0.50	<0.50	<0.50	*<0.50*	
MW-16									
7/21/2009	<300	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	*<0.50*	
1/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
6/3/2010	<600	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
7/22/2010	<600	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
2/18/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<2,400	*<80*	<4.0	<4.0	<4.0	<4.0	*<4.0*	*<4.0*	
1/17/2012	600	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
7/24/2012	<600	*<40*	<2.0	<2.0	<2.0	<2.0	*<2.0*	*<2.0*	
MW-17									
7/21/2009	<300	10	2.8	<0.50	<0.50	1.0	<0.50	*<0.50*	
1/12/2010	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-17 Cont.									
6/3/2010	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
7/22/2010	<15,000	*<500*	*<25*	<25	<25	<25	*<25*	*<25*	
2/18/2011	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
8/25/2011	<6,000	*<200*	*<10*	<10	<10	<10	*<10*	*<10*	
1/17/2012	<1,500	*<50*	<2.5	<2.5	<2.5	<2.5	*<2.5*	*<2.5*	
7/24/2012	<300	*<20*	<1.0	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	
MW-18									
7/21/2009	<300	<10	4.8	<0.50	<0.50	3.0	<0.50	*<0.50*	
1/12/2010	<600	*<20*	*5.8*	<1.0	<1.0	4.7	*<1.0*	*<1.0*	
7/22/2010	<300	<10	*5.1*	<0.50	<0.50	4.9	<0.50	*<0.50*	
2/18/2011	<300	<10	3.8	<0.50	<0.50	3.2	<0.50	*<0.50*	
8/25/2011	<300	<10	4.9	<0.50	<0.50	4.8	<0.50	*<0.50*	
1/17/2012	<300	<10	2.5	<0.50	<0.50	1.9	<0.50	*<0.50*	
7/24/2012	<150	<10	1.8	<0.50	<0.50	1.8	<0.50	*<0.50*	
MW-19									
7/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	*<0.50*	
SB-1									
3/9/2011	<30,000	*<1,000*	*<50*	<50	<50	<50	*<50*	*<50*	SB-1-GW
SB-2									
3/9/2011	<7,500	*250*	*<12*	<12	<12	<12	*<12*	*<12*	SB-2-GW
SB-3									
3/9/2011	<600	*<20*	2.1	<1.0	<1.0	<1.0	*<1.0*	*<1.0*	SB-3-GW
SB-4									
3/9/2011	<1,200	*<40*	2.2	<2.0	<2.0	<2.0	*<2.0*	*<2.0*	SB-4-GW

Symbols & Abbreviations:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
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

Footnotes:
a = The sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose
b = Calibration verification for ethanol was within method limits but outside contract limits
c = Original analysis for ethanol was a positive result. Reanalysis did not confirm
d = Sample preserved improperly
e = FP in well
f = Insufficient water to sample
g = Well was dry
h = Reporting limits raised due to high level of non-target analytes (SVOCs)

Notes:
All volatile organic compounds analyzed using EPA Method 8260B

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 3. Historical Groundwater Gradient - Direction and Magnitude

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
8/4/1994	Southwest	0.004
11/20/1994	Southwest	0.002
3/17/1995	West-Southwest	0.006
6/1/1995	Southwest	0.003
8/31/1995	South-Southwest	0.005
11/27/1995	South-Southwest	0.004
2/22/1996	Northwest	0.007
5/20/1996	Southwest	0.007
8/26/1996	South-Southwest	0.004
11/20/1996	South-Southeast	0.004
3/24/1997	Southeast	0.013
5/23/1997	Southeast	0.014
8/19/1997	Southeast	0.04
11/19/1997	Southeast	0.016
2/19/1998	East	Variable
4/23/1998	Variable	Variable
7/27/1998	Southeast	0.05
10/14/1998	Southeast	0.02
1/21/1999	East	0.04
5/6/1999	Southeast	0.05
8/23/1999	Southeast	0.02
10/28/1999	Southeast	0.04
2/4/2000	East-Southeast	0.053
6/20/2000	East-Southeast	0.023
9/29/2000	East-Southeast	0.023
12/17/2000	East-Southeast	0.01
3/28/2001	East-Southeast	0.014
6/20/2001	East-Southeast	0.022
9/22/2001	East-Southeast	0.025
12/27/2001	East-Southeast	0.025
3/15/2002	East	0.015
4/18/2002	East	0.015
7/23/2002	East-Southeast	0.025
10/16/2002	East-Southeast	0.022
1/23/2003	East	0.020
4/7/2003	East-Southeast	0.033
8/7/2003	East-Southeast	0.047
10/23/2003	Southeast	0.047
1/12/2004	Southeast	0.042
4/20/2004	Southwest	0.005
7/1/2004	West	0.005
11/4/2004	West to Southwest	0.011 to 0.003
1/10/2005	West to North	0.02 to 0.03
4/14/2005	Northwest to Southwest	0.005 to 0.02

Table 3. Historical Groundwater Gradient - Direction and Magnitude

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
8/2/2005	West to Southwest	0.004 to 0.01
10/21/2005	Southwest	0.005
1/4/2006	Variable	0.009 to 0.04
4/28/2006	Southwest	0.005
8/4/2006	South-Southwest	0.007
10/23/2006	South-Southwest	0.003
1/15/2007	Southwest	0.002
4/17/2007	Southwest	0.001
7/9/2007	Southwest	0.002
10/1/2007	Southwest	0.005
1/7/2008	Southwest	0.006
4/1/2008	Southwest	0.01
7/23/2008	South-Southwest	0.002
10/22/2008	South-Southwest	0.003
1/21/2009	South-Southwest	0.004
4/21/2009	Southwest	0.004
8/21/2009	Southwest	0.002
1/12/2010	Southwest	0.003
6/3/2010	Southwest	0.004
7/22/2010	Southwest	0.003
2/18/2011	West-Northwest	0.003
8/25/2011	Southwest	0.003
1/17/2012	Southwest	0.003
7/24/2012	**Southwest**	**0.003**

Notes:
Wells resurveyed on 2/27/2004

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 4. Bio-Degradation Parameters

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-1													
7/21/2009	10.85	<0.1	--	5.8	2.7	<0.050	--	--	--	--	--	7.10	
1/12/2010	0.98	<0.1	--	13.0	<1.0	<0.050	--	--	--	--	-138	6.48	
1/17/2012	0.36	--	--	--	--	--	--	--	--	--	-49	6.65	
7/24/2012	1.25	--	--	--	--	--	--	--	--	--	-177	7.09	
MW-2													
6/3/2010	--	<0.1	--	<0.10	54	<0.050	--	--	--	--	-65	7.06	
MW-3													
7/21/2009	11.15	<0.1	--	<0.10	2.4	<0.050	--	--	--	--	--	7.35	
1/12/2010	1.07	<0.1	--	2.0	1.2	<0.050	--	--	--	--	-97	6.63	
6/3/2010	1.16	<0.1	--	0.340	<1.0	<0.050	--	--	--	--	-146	6.8	
1/17/2012	0.26	--	--	--	--	--	--	--	--	--	3	7.01	
7/24/2012	1.25	--	--	--	--	--	--	--	--	--	-132	7.15	
MW-4													
6/3/2010	1.10	<0.1	--	<0.10	64	<0.050	--	--	--	--	-120	7.1	
MW-5													
6/3/2010	1.77	<0.1	--	<0.10	<1.0	<0.050	--	--	--	--	-80	6.9	
MW-9													
7/24/2012	1.37	--	--	--	--	--	--	--	--	--	25	7.29	
MW-10													
1/17/2012	0.61	--	--	--	--	--	--	--	--	--	185	7.6	
7/24/2012	1.56	--	--	--	--	--	--	--	--	--	-135	7.44	
MW-14													
7/24/2012	1.22	--	--	--	--	--	--	--	--	--	64	7.09	
MW-15													
7/24/2012	1.56	--	--	--	--	--	--	--	--	--	51	7.45	

Table 4. Bio-Degradation Parameters

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-16													
7/21/2009	14.83	<0.1	--	<0.10	94	<0.050	--	--	--	--	--	7.71	
1/12/2010	1.24	<0.1	--	<0.10	24	<0.050	--	--	--	--	-53	6.8	
6/3/2010	--	<0.1	--	<0.10	9.6	<0.050	--	--	--	--	-108	7.10	
1/17/2012	0.42	--	--	--	--	--	--	--	--	--	53	7.30	
7/24/2012	1.09	--	--	--	--	--	--	--	--	--	-149	7.25	
MW-17													
7/21/2009	11.48	<0.1	--	<0.10	25	<0.050	--	--	--	--	--	7.57	
1/12/2010	1.02	<0.1	--	0.130	<1.0	<0.050	--	--	--	--	-84	6.80	
6/3/2010	1.26	<0.1	--	<0.260	<1.0	<0.050	--	--	--	--	-66	6.99	
1/17/2012	0.36	--	--	--	--	--	--	--	--	--	42	7.35	
7/24/2012	1.00	--	--	--	--	--	--	--	--	--	-128	7.21	
MW-18													
7/21/2009	14.25	<0.1	--	<0.10	24	<0.050	--	--	--	--	--	7.69	
1/12/2010	1.79	<0.1	--	<0.10	26	<0.050	--	--	--	--	-20	6.8	
1/17/2012	0.45	--	--	--	--	--	--	--	--	--	227	7.5	
7/24/2012	0.90	--	--	--	--	--	--	--	--	--	-170	7.40	
MW-19													
7/21/2009	13.65	0.920	--	<0.10	110	<0.050	--	--	--	--	--	8.03	

Symbols & Abbreviations:
< = Not detected at or above specified laboratory reporting limit
ORP = Oxygen reduction potential
DO = Dissolved oxygen
CO2 = Carbon dioxide
mV = Millivolts
µg/L = Micrograms per liter
mg/L = Milligrams per liter

APPENDIX A

FIELD METHODS

QUALITY ASSURANCE/QUALITY CONTROL
FIELD METHODS

Field methods discussed herein were implemented to provide for accuracy and reliability of field activities, data collection, sample collection, and handling. Discussion of these methods is provided below.

1.0 Equipment Calibration

Equipment calibration was performed per equipment manufacturer specifications before use.

2.0 Depth to Groundwater and Light Non-Aqueous Phase Liquid Measurement

Depth to groundwater was measured in wells identified for gauging in the scope of work using a decontaminated water level indicator. The depth to water measurement was taken from a cut notch or permanent mark at the top of the well casing to which the well head elevation was originally surveyed.

Once depth to water was measured, an oil/water interface meter or a new disposable bailer was utilized to evaluate the presence and, if present, to measure the "apparent" thickness of light non-aqueous phase liquid (LNAPL) in the well. If LNAPL was present in the well, groundwater purging and sampling were not performed, unless sampling procedures in the scope of work specified collection of samples in the presence of LNAPL. Otherwise, time allowing, LNAPL was bailed from the well using either a new disposable bailer, or the disposal bailer previously used for initial LNAPL assessment. Bailing of LNAPL continued until the thickness of LNAPL (or volume) stabilized in each bailer pulled from the well, or LNAPL was no longer present. After LNAPL thickness either stabilized or was eliminated, periodic depth to water and depth to LNAPL measurements were collected as product came back into the well to evaluate product recovery rate and to aid in further assessment of LNAPL in the subsurface. LNAPL thickness measurements were recorded as "apparent." If a bailer was used for LNAPL thickness measurement, the field sampler noted the bailer entry diameter and chamber diameter to enable correction of thickness measurements. Recovered LNAPL was stored on-site in a labeled steel drum(s) or other appropriate container(s) prior to disposal.

3.0 Well Purging and Groundwater Sample Collection

Well purging and groundwater sampling were performed in wells specified in the scope of work after measuring depth to groundwater and evaluating the presence of LNAPL. Purging and sampling were performed using one of the methods detailed below. The method used was noted in the field records. Purge water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal or on-site treatment (in cases where treatment using an on-site system is authorized).

3.1 Purging a Predetermined Well Volume

Purging a predetermined well volume is performed per ASTM International (ASTM) D4448-01. This purging method has the objective of removing a predetermined volume of stagnant water from the well prior to sampling. The volume of stagnant water

is defined as either the volume of water contained within the well casing, or the volume within the well casing and sand/gravel in the annulus if natural flow through these is deemed insufficient to keep them flushed out.

This purging method involves removal of a minimum of three stagnant water volumes from the well using a decontaminated pump with new disposable plastic discharge or suction tubing, dedicated well tubing, or using a new disposable or decontaminated reusable bailer. If a new disposable bailer was used for assessment of LNAPL, that bailer may be used for purging. The withdrawal rate used is one that minimizes drawdown while satisfying time constraints.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity[1]. Parameters are considered stable when two (2) consecutive readings recorded three (3) minutes apart fall within ranges provided below in Table 1. In the event that the parameters have not stabilized and five (5) well casing volumes have been removed, purging activities will cease and be considered complete. Once the well is purged, a groundwater sample(s) is collected from the well using a new disposable bailer. If a new disposable bailer was used for purging, that bailer may be used to collect the sample(s). A sample is not collected if the well is inadvertently purged dry.

Table 1. Criteria for Defining Stabilization of Water-Quality Indicator Parameters

Parameter	Stabilization Criterion
Temperature	± 0.2ºC (± 0.36ºF)
pH	± 0.1 standard units
Conductivity	± 3%
Dissolved oxygen	± 10%
Oxidation reduction potential	± 10 mV
Turbidity[1]	± 10% or 1.0 NTU (whichever is greater)

3.2 Low-Flow Purging and Sampling

“Low-Flow”, “Minimal Drawdown”, or "Low-Stress” purging is performed per ASTM D6771-02. It is a method of groundwater removal from within a well’s screened interval that is intended to minimize drawdown and mixing of the water column in the well casing. This is accomplished by pumping the well using a decontaminated pump with new disposable plastic discharge or suction tubing or dedicated well tubing at a low flow rate while evaluating the groundwater elevation during pumping.

[1] As stated in ASTM D6771-02, turbidity is not a chemical parameter and not indicative of when formation-quality water is being purged; however, turbidity may be helpful in evaluating stress on the formation during purging. Turbidity measurements are taken at the same time that stabilization parameter measurements are made, or, at a minimum, once when purging is initiated and again just prior to sample collection, after stabilization parameters have stabilized. To avoid artifacts in sample analysis, turbidity should be as low as possible when samples are collected. If turbidity values are persistently high, the withdrawal rate is lowered until turbidity decreases. If high turbidity persists even after lowering the withdrawal rate, the purging is stopped for a period of time until turbidity settles, and the purging process is then restarted. If this fails to solve the problem, the purging/sampling process for the well is ceased, and well maintenance or redevelopment is considered.

The low flow pumping rate is well specific and is generally established at a volume that is less than or equal to the natural recovery rate of the well. A pump with adjustable flow rate control is positioned with the intake at or near the mid-point of the submerged well screen. The pumping rate used during low-flow purging is low enough to minimize mobilization of particulate matter and drawdown (stress) of the water column. Low-flow purging rates will vary based on the individual well characteristics; however, the purge rate should not exceed 1.0 Liter per minute (L/min) or 0.25 gallon per minute (gal/min). Low-flow purging should begin at a rate of approximately 0.1 L/min (0.03 gal/min)[2], or the lowest rate possible, and be adjusted based on an evaluation of drawdown. Water level measurements should be recorded at approximate one (1) to two (2) minute intervals until the low-flow rate has been established, and drawdown is minimized. As a general rule, drawdown should not exceed 25% of the distance between the top of the water column and the pump in-take.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity[1]. The frequency between measurements will be at an interval of one (1) to three (3) minutes; however, if a flow cell is used, the frequency will be determined based on the time required to evacuate one cell volume. Stabilization is defined as three (3) consecutive readings recorded several minutes apart falling within ranges provided in Table 1. Samples will be collected by filling appropriate containers from the pump discharge tubing at a rate not to exceed the established pumping rate.

3.3 Minimal Purge, Discrete Depth, and Passive Sampling

Per ASTM D4448-01, sampling techniques that do not rely on purging, or require only minimal purging, may be used if a particular zone within a screened interval is to be sampled or if a well is not capable of yielding sufficient groundwater for purging. To properly use these sampling techniques, a water sample is collected within the screened interval with little or no mixing of the water column within the casing. These techniques include minimal purge sampling which uses a dedicated sampling pump capable of pumping rates of less than 0.1 L/min (0.03 gal/min)[2], discrete depth sampling using a bailer that allows groundwater entry at a controlled depth (e.g. differential pressure bailer), or passive (diffusion) sampling. These techniques are based on certain studies referenced in ASTM D4448-01 that indicate that under certain conditions, natural groundwater flow is laminar and horizontal with little or no mixing within the well screen.

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[2] According to ASTM D4448-01, studies have indicated that at flow rates of 0.1 L/min, low-density polyethylene (LDPE) and plasticized polypropylene tubing materials are prone to sorption. Therefore, TFE-fluorocarbon or other appropriate tubing material is used, particularly when tubing lengths of 50 feet or longer are used.

4.0 Decontamination

Reusable groundwater sampling equipment were cleaned using a solution of Alconox or other acceptable detergent, rinsed with tap water, and finally rinsed with distilled water prior to use in each well. Decontamination water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal.

5.0 Sample Containers, Labeling, and Storage

Samples were collected in laboratory prepared containers with appropriate preservative (if preservative was required). Samples were properly labeled (site name, sample I.D., sampler initials, date, and time of collection) and stored chilled (refrigerator or ice chest with ice) until delivery to a certified laboratory, under chain of custody procedures.

6.0 Chain of Custody Record and Procedure

The field sampler was personally responsible for care and custody of the samples collected until they were properly transferred to another party. To document custody and transfer of samples, a Chain of Custody Record was prepared. The Chain of Custody Record provided identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original Chain of Custody Record accompanied the shipment, and a copy of the record was stored in the project file. When the samples were transferred, the individuals relinquishing and receiving them signed, dated, and noted the time of transfer on the record.

7.0 Field Records

Daily Report and data forms were completed by staff personnel to provide daily record of significant events, observations, and measurements. Field records were signed, dated, and stored in the project file.

APPENDIX B

FIELD DATA SHEETS
AND
NON-HAZARDOUS WASTE DATA FORM

BROADBENT

DAILY REPORT

Project: BP 601 Project No.: 06-88-605

Field Representative(s): AM/JR Day: Tuesday Date: 7/24/12

Time Onsite: From: 0700 To: 1600 ; From: _____ To: _____ ; From: _____ To: _____

X Signed HASP X Safety Glasses X Hard Hat X Steel Toe Boots X Safety Vest

X UST Emergency System Shut-off Switches Located X Proper Gloves

X Proper Level of Barricading ___ Other PPE (describe) _____

Weather: Foggy / Sunny

Equipment In Use: Peristaltic pump, water quality meter, water level meter

Visitors: Jason Hoffman

TIME:	WORK DESCRIPTION:
0700	Arrived onsite and conducted safety tailgate meeting
0755	Set up @ MW-10
0830	Set up @ MW-9
0910	Set up @ MW-15
0940	Set up @ MW-14
1030	Set up @ MW-19
1100	Set up @ MW-8
1130	J. Hoffman arrived onsite. Conducted tailgate
1150	Set up @ MW-2
1220	Set up @ MW-5 / MW-17 / MW-18
1420	Set up @ MW-16 / J. Hoffman offsite
1445	Set up @ MW-3
1515	Set up @ MW-1
1600	Completed fieldwork and offsite.

Signature: _____

BROADBENT

GROUNDWATER MONITORING SITE SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM / JR Elevation: _____

Formation recharge rate is historically: High Low *(circle one)*

W. L. Indicator ID #: _____ Oil/Water Interface ID #: _____ *(List #s of all equip used.)*

WELL ID RECORD					WELL GAUGING RECORD					LAB ANALYSES					
Well ID	Well Sampling Order	As-Built Well Diameter (inches)	As-Built Well Screen Interval (ft)	Previous Depth to Water (ft)	Time (24:00)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)*	Depth to Water (ft)	Well Total Depth (ft)						
MW-1					1519			8.41	11.12						
MW-2					1151			7.44	11.18						
MW-3					1450			6.04	11.95						
MW-4					1420			6.70	8.50						
MW-5					1235			7.08	10.15						
MW-6					1350			8.25	8.62						
MW-7					1057			8.77	9.60						
MW-8					1116			7.40	10.20						
MW-9					0836			8.07	16.22						
MW-10					0843			8.14	15.08						
MW-11					1416			8.39	11.87						
MW-12					1024			8.90	11.65	Need	Improvement	(me)	(bx)		
MW-13					1015			8.23	12.95						
MW-14					0944			9.49	12.97						
MW-15					0913			6.07	10.09						
MW-16					1425			6.75	15.17						
MW-17					1225			7.02	15.12						
MW-18					1349			8.02	14.72						
MW-19					1034			8.80	15.06						

* Device used to measure LNAPL thickness: Bailer Oil/Water Interface Meter *(circle one)*

If bailer used, note bailer dimensions (inches): Entry Diameter _____ Chamber Diameter _____

Signature: James Barnes

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: JR/AM

Well ID: MW-1 Start Time: End Time: Total Time (minutes):

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
___ Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: [illegible]
Good Improvement Needed *(circle one)*

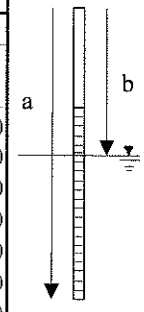
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Water Column Height (WCH) = (a - b): _____ (ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)
Three Casing Volumes = WCV x 3: _____ (gal)
Five Casing Volumes = WCV x 5: _____ (gal)
Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)
Total Well Depth (a): 11.12 (ft)
Initial Depth to Water (b): 8.41 (ft)
Pump In-take Depth = b + (a-b)/2: 9.77 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.34 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity (µS or mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1524	0.0	27.10	7.01	1.05	2.76	-139	3.6	Very moderate
1527	0.5	26.67	7.07	1.04	1.65	-166	0.5	odor
1530	1.0	26.57	7.00	1.03	1.28	-174	0.3	
1533	1.5	26.56	7.09	1.02	1.25	-177	0.2	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 8.68 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-1 Sample Collection Time: 1530 (24:00)
Containers (#): 3 VOA (X preserved or ___ unpreserved) 2 Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1533	1.25
Ferrous Iron (mg/L)		
Redox Potential (mV)	1533	-177
Alkalinity (mg/L)		
Other:		
Other:		

Signature: James Ram

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM / JR

Well ID: MW-2 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

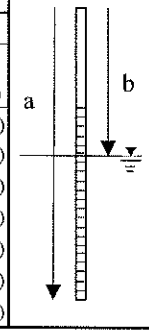
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 11.18 (ft)
Initial Depth to Water (b): 7.44 (ft)
Pump In-take Depth = b + (a-b)/2: 9.31 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.47 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1158	0.5	28.91	7.31	1.21	1.56	-49	14.0	
1201	0.5	27.79	7.35	1.23	1.26	-64	11.9	
1204	1.0	27.16	7.36	1.25	1.02	-80	5.5	
1207	1.5	26.86	7.35	1.25	0.88	-88	11.7	
1210	2.0	26.81	7.36	1.25	0.81	-92	8.0	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 7.96 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-2 Sample Collection Time: 1213 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1210	0.81
Ferrous Iron (mg/L)		
Redox Potential (mV)	1210	-92
Alkalinity (mg/L)		
Other:		
Other:		

Signature: James Ran

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: JR/AM

Well ID: MW-3 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

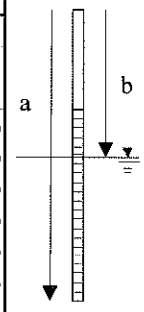
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): _____(ft)
Initial Depth to Water (b): _____(ft)
Water Column Height (WCH) = (a - b): _____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)
Three Casing Volumes = WCV x 3: _____(gal)
Five Casing Volumes = WCV x 5: _____(gal)
Pump Depth (if pump used): _____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)
Total Well Depth (a): 11.95 (ft)
Initial Depth to Water (b): 6.64 (ft)
Pump In-take Depth = b + (a-b)/2: 8.99 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.73 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1455	0.0	17.22	7.22	0.829	2.16	-118	41.6	
1458	0.5	16.34	7.18	0.821	1.54	-125	22.0	Moderate HC odor
1901	1.0	15.61	7.15	0.812	1.50	-130	14.9	
1504	1.5	15.36	7.15	0.799	1.25	-132	13.6	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 6.80 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-3 Sample Collection Time: 1507 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1504	1.25
Ferrous Iron (mg/L)		
Redox Potential (mV)	1504	-132
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-8 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

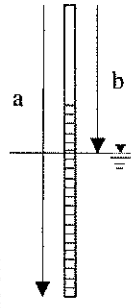
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): ___(ft)
Initial Depth to Water (b): ___(ft)
Water Column Height (WCH) = (a - b): ___(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ___(gal)
Three Casing Volumes = WCV x 3: ___(gal)
Five Casing Volumes = WCV x 5: ___(gal)
Pump Depth (if pump used): ___(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ___(lpm)
Total Well Depth (a): 10.26 (ft)
Initial Depth to Water (b): 7.40 (ft)
Pump In-take Depth = b + (a-b)/2: 8.30 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.35 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1112	0.0	27.70	7.60	0.713	2.08	86	5.8	
1115	0.5	27.48	7.52	0.710	1.41	65	3.2	
1118	1.0	27.21	7.35	0.711	1.21	57	2.3	
1121	1.5	27.46	7.32	0.720	0.89	34	0.9	
1131	2.0	27.16	7.36	0.662	0.84	25	1.9	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 7.57 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-8 Sample Collection Time: 1135 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1131	0.84
Ferrous Iron (mg/L)		
Redox Potential (mV)	1131	25
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-08-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-9 Start Time: ____ End Time: ____ Total Time (minutes): ____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

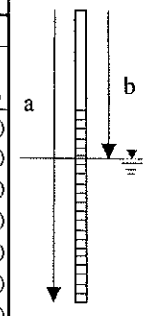
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 14.22 (ft)
Initial Depth to Water (b): 8.07 (ft)
Pump In-take Depth = b + (a-b)/2: 12.14 (ft)
Maximum Allowable Drawdown = (a-b)/8: 1.01 (ft)
Low-Flow Purge Rate: ~0.20 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
0839	0.8	22.36	7.28	1.11	2.93	55	34.6	
0842	0.9	22.53	7.27	1.10	2.28	32	22.6	
0845	1.0	22.65	7.26	1.08	2.39	29	15.1	
0848	1.5	22.72	7.26	1.07	1.91	32	6.7	
0851	2.0	22.72	7.28	1.07	1.56	29	7.9	
0854	2.5	22.69	7.29	1.08	1.37	25	10.4	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 9.01 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-9 Sample Collection Time: 0858 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	0854	1.37
Ferrous Iron (mg/L)		
Redox Potential (mV)	0854	25
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: JR/AM

Well ID: MW-10 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

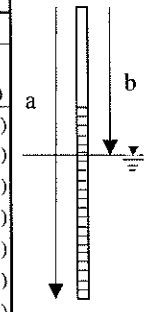
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 15.08 (ft)
Initial Depth to Water (b): 8.14 (ft)
Pump In-take Depth = b + (a-b)/2: 11.61 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.87 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
0810	0	21.96	7.49	1.28	3.75	-138	8.2	Slight yellow
0813	0.5	22.28	7.39	1.26	2.40	-137	21.1	color
0816	1.0	22.41	7.43	1.26	1.87	-140	68.9	
0819	1.5	22.53	7.44	1.25	1.67	-137	84.2	
0822	2.0	22.55	7.44	1.25	1.56	-135	65.7	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 8.42 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-10 Sample Collection Time: 0825 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
2 Other: ~~NP AMBER L~~ ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	0822	1.56
Ferrous Iron (mg/L)		
Redox Potential (mV)	0822	-135
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

Revision: 8/19/11

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 8 of ____

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-14 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

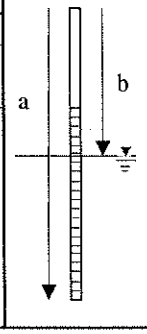
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 12.97 (ft)
Initial Depth to Water (b): 9.49 (ft)
Pump In-take Depth = b + (a-b)/2: 11.23 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.43 (ft)
Low-Flow Purge Rate: ~0.20 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
0948	0.0	22.52	7.18	1.44	2.34	93	14.3	
0951	0.5	22.80	7.13	1.43	1.99	80	10.7	
0954	1.0	22.84	7.13	1.42	1.52	69	6.4	
0957	1.5	22.93	7.11	1.42	1.34	67	6.2	
1000	2.0	22.97	7.09	1.42	1.22	64	4.4	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 9.47 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-14 Sample Collection Time: 1003 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1000	1.22
Ferrous Iron (mg/L)		
Redox Potential (mV)	1000	64
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

Revision: 8/19/11

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-15 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____
(Good) Improvement Needed *(circle one)*

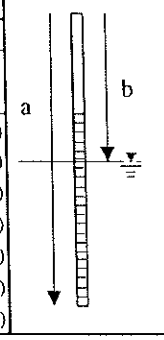
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Water Column Height (WCH) = (a - b): _____ (ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)
Three Casing Volumes = WCV x 3: _____ (gal)
Five Casing Volumes = WCV x 5: _____ (gal)
Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)
Total Well Depth (a): 10.09 (ft)
Initial Depth to Water (b): 6.67 (ft)
Pump In-take Depth = b + (a-b)/2: 8.38 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.50 (ft)
Low-Flow Purge Rate: _____ (Lpm)*
Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
0918	0.0	22.04	7.49	1.29	2.71	54	13.9	
0921	0.9	22.02	7.44	1.30	2.01	76	3.1	
0924	1.6	22.03	7.45	1.29	1.68	58	4.9	
0927	1.5	22.16	7.46	1.29	1.56	51	3.1	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 6.43 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-15 Sample Collection Time: 0930 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ ___ Other: ___
___ Other: ___ ___ Other: ___

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	0927	1.56
Ferrous Iron (mg/L)		
Redox Potential (mV)	0927	51
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/19/11

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-16 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

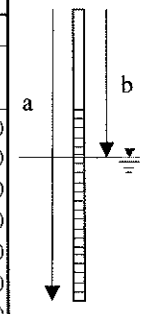
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____(ft)
Initial Depth to Water (b): _____(ft)
Water Column Height (WCH) = (a - b): _____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)
Three Casing Volumes = WCV x 3: _____(gal)
Five Casing Volumes = WCV x 5: _____(gal)
Pump Depth (if pump used): _____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)
Total Well Depth (a): 15.17 (ft)
Initial Depth to Water (b): 6.75 (ft)
Pump In-take Depth = b + (a-b)/2: 10.96 (ft)
Maximum Allowable Drawdown = (a-b)/8: 1.05 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1429	0.0	30.39	7.27	1.26	2.30	-133	0.7	
1432	0.5	29.35	7.26	1.28	1.43	-157	0.8	Mild HC odor
1435	1.0	28.72	7.25	1.30	1.24	-149	0.7	
1438	1.5	28.10	7.25	1.31	1.09	-149	0.7	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 7.06 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-16 Sample Collection Time: 1442 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1438	1.09
Ferrous Iron (mg/L)		
Redox Potential (mV)	1438	-149
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 11 of ____

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-17 Start Time: ~ End Time: ~ Total Time (minutes): ~

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
(Good) Improvement Needed *(circle one)*

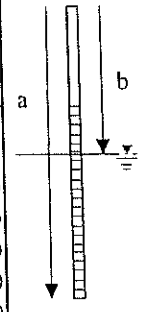
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 15.12 (ft)
Initial Depth to Water (b): 7.02 (ft)
Pump In-take Depth = b + (a-b)/2: 11.07 (ft)
Maximum Allowable Drawdown = (a-b)/8: 1.01 (ft)
Low-Flow Purge Rate: 0.17 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or (mS)	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1230	0.0	28.42	7.22	1.61	2.10	-121	0.3	
1233	0.5	28.23	7.21	1.62	1.49	-127	0.2	
1236	1.0	28.03	7.21	1.63	1.12	-129	0.0	
1239	1.5	28.07	7.21	1.66	1.06	-128	0.1	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 7.53 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-17 Sample Collection Time: 1243 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1239	1.06
Ferrous Iron (mg/L)		
Redox Potential (mV)	1239	-128
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/19/11

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-86-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-18 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
6 Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

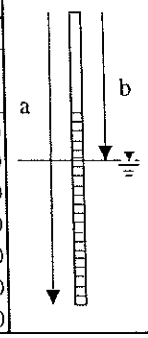
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other: ___" | (___)
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81)

Total Well Depth (a): ____(ft)
Initial Depth to Water (b): ____(ft)
Water Column Height (WCH) = (a - b): ____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: ____(gal)
Three Casing Volumes = WCV x 3: ____(gal)
Five Casing Volumes = WCV x 5: ____(gal)
Pump Depth (if pump used): ____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: ____(lpm)
Total Well Depth (a): 14.72 (ft)
Initial Depth to Water (b): 8.07 (ft)
Pump In-take Depth = b + (a-b)/2: 11.37 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.83 (ft)
Low-Flow Purge Rate: ____(Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1356	0.0	31.12	7.33	1.17	2.03	+150	0.0	
1359	0.5	31.07	7.34	1.19	1.41	-162	0.8	Slight odor
1402	1.0	29.58	7.36	1.20	1.16	-166	0.0	
1405	1.5	29.31	7.39	1.2	1.01	-168	0.0	
1408	2.0	29.16	7.90	1.21	0.90	-170	0.4	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 8.03 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-18 Sample Collection Time: 1411 (24:00)
Containers (#): 6 VOA (3 preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ ___ Other: ___
___ Other: ___ ___ Other: ___

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1408	0.90
Ferrous Iron (mg/L)		
Redox Potential (mV)	1408	-170
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: BP 601 Project No.: 06-88-605 Date: 7/24/12

Field Representative: AM/JR

Well ID: MW-19 Start Time: - End Time: - Total Time (minutes): -

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump X Flow Cell
X Disp. Tubing ___ 12V Pump X Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

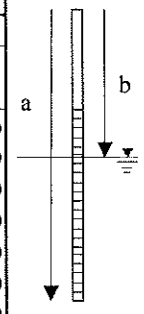
PURGING/SAMPLING METHOD Predetermined Well Volume (Low-Flow) Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____(ft)
Initial Depth to Water (b): _____(ft)
Water Column Height (WCH) = (a - b): _____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)
Three Casing Volumes = WCV x 3: _____(gal)
Five Casing Volumes = WCV x 5: _____(gal)
Pump Depth (if pump used): _____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)
Total Well Depth (a): 15.06 (ft)
Initial Depth to Water (b): 3.58 (ft)
Pump In-take Depth = b + (a-b)/2: 11.97 (ft)
Maximum Allowable Drawdown = (a-b)/8: 0.77 (ft)
Low-Flow Purge Rate: ~0.30 (Lpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Volume (L)	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1039	0.0	24.85	7.35	1.56	2.62	96	1.3	
1042	0.5	24.98	7.40	1.56	1.96	84	2.4	
1045	1.0	24.99	7.39	1.56	1.54	72	1.8	
1048	1.5	25.02	7.39	1.56	1.38	67	1.3	
1051	2.0	25.11	7.39	1.56	1.27	62	1.4	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD X Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 9.17 (ft)
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing
X Disp. Pump Tubing Other:
Sample ID: MW-19 Sample Collection Time: 1055 (24:00)
Containers (#): 6 VOA (X preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)	1051	1.27
Ferrous Iron (mg/L)		
Redox Potential (mV)	1051	62
Alkalinity (mg/L)		
Other:		
Other:		

Signature:

NO. 689947

NON-HAZARDOUS WASTE DATA FORM

BESI #

GENERATOR

Generator's Name and Mailing Address

BP WEST COAST PRODUCTS, LLC
P.O. BOX 80249
RANCHO SANTA MARGARITA, CA 92688

Generator's Site Address (if different than mailing address)

BP 601
712 Lewelling Blvd.,
San Leandro, CA

Generator's Phone: 949-460-5200

Container type removed from site:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity ~6 gallons

Container type transported to receiving facility:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Generator Printed/Typed Name | Signature | Month | Day | Year

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BROADBENT & ASSOCIATES, INC> | Phone#: 530-566-1400

Transporter 1 Printed/Typed Name: Alex Martinez | Signature: Alex Martinez | Month: 7 | Day: 27 | Year: 12

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address

INSTRAT, INC.
1105 AIRPORT RD.
RIO VISTA, CA 94571

Phone#: 530-753-1829

Printed/Typed Name | Signature | Month | Day | Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

APPENDIX C

LABORATORY REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-18607-1
Client Project/Site: ARCO 0601, San Leandro

For:
Broadbent & Associates, Inc.
875 Cotting Lane
Suite G
Vacaville, California 95688

Attn: Kristene Tidwell

Authorized for release by:
8/11/2012 1:46:35 PM

Pat Abe
Project Manager I
pat.abe@testamericainc.com

Table of Contents

Sample Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-18607-1	MW-1	Water	07/24/12 15:36	07/27/12 07:30
440-18607-2	MW-2	Water	07/24/12 12:13	07/27/12 07:30
440-18607-3	MW-3	Water	07/24/12 15:07	07/27/12 07:30
440-18607-4	MW-8	Water	07/24/12 11:35	07/27/12 07:30
440-18607-5	MW-9	Water	07/24/12 08:58	07/27/12 07:30
440-18607-6	MW-10	Water	07/24/12 08:25	07/27/12 07:30
440-18607-7	MW-14	Water	07/24/12 10:03	07/27/12 07:30
440-18607-8	MW-15	Water	07/24/12 09:30	07/27/12 07:30
440-18607-9	MW-16	Water	07/24/12 14:42	07/27/12 07:30
440-18607-10	MW-17	Water	07/24/12 12:43	07/27/12 07:30
440-18607-11	MW-18	Water	07/24/12 14:11	07/27/12 07:30
440-18607-12	MW-19	Water	07/24/12 10:55	07/27/12 07:30

Job ID: 440-18607-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-18607-1

Comments
As discussed with the client, 2,6-Dichlorophenol and 1-Methylnaphthalene are not included in the 8270C analyte list.

Receipt
The samples were received on 7/27/2012 7:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 42129 exceeded control limits for the following analytes: Hexachloroethane; 1,2,4-Trichlorobenzene; 1,3-Dichlorobenzene. The individual analyte QA/QC recoveries, however, were within acceptance limits.

Method(s) 8270C LL: The LCS recovery and precision for Benzidine was outside acceptance limits in prep batch 42129. Per the EPA methods, benzidine is known to be subject to oxidative losses during sample preparation.

Method(s) 8270C LL: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 42129. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8270C LL: Due to the level of dilution required for the following sample(s), surrogate recoveries do not provide useful information: MW-1 (440-18607-1).

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-1
Date Collected: 07/24/12 15:36
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-1
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/31/12 12:35	2
1,2-Dichloroethane	ND		1.0		ug/L			07/31/12 12:35	2
Benzene	**38**		1.0		ug/L			07/31/12 12:35	2
Ethanol	ND		300		ug/L			07/31/12 12:35	2
Ethylbenzene	**70**		1.0		ug/L			07/31/12 12:35	2
Ethyl-t-butyl ether (ETBE)	ND		1.0		ug/L			07/31/12 12:35	2
Isopropyl Ether (DIPE)	ND		1.0		ug/L			07/31/12 12:35	2
m,p-Xylene	**2.9**		2.0		ug/L			07/31/12 12:35	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/31/12 12:35	2
o-Xylene	ND		1.0		ug/L			07/31/12 12:35	2
Tert-amyl-methyl ether (TAME)	ND		1.0		ug/L			07/31/12 12:35	2
tert-Butyl alcohol (TBA)	ND		20		ug/L			07/31/12 12:35	2
Toluene	**2.5**		1.0		ug/L			07/31/12 12:35	2
Xylenes, Total	**2.9**		2.0		ug/L			07/31/12 12:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*07/31/12 12:35*	*2*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*07/31/12 12:35*	*2*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 12:35*	*2*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	BA	100		ug/L		07/31/12 18:50	08/03/12 21:13	10
1,2-Dichlorobenzene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
1,2-Diphenylhydrazine(as Azobenzene)	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
1,3-Dichlorobenzene	ND	BA	100		ug/L		07/31/12 18:50	08/03/12 21:13	10
1,4-Dichlorobenzene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4,5-Trichlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4,6-Trichlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4-Dichlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4-Dimethylphenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4-Dinitrophenol	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,4-Dinitrotoluene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,6-Dinitrotoluene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Chloronaphthalene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Chlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Methylnaphthalene	**180**		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Methylphenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Nitroaniline	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2-Nitrophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
3,3'-Dichlorobenzidine	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
3-Nitroaniline	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4,6-Dinitro-2-methylphenol	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Bromophenyl phenyl ether	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Chloro-3-methylphenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Chloroaniline	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Chlorophenyl phenyl ether	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
3-Methylphenol + 4-Methylphenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Nitroaniline	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
4-Nitrophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-1
Date Collected: 07/24/12 15:36
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Acenaphthylene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Aniline	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Anthracene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzidine	ND	LR BA	200		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzo[a]anthracene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzo[a]pyrene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzo[b]fluoranthene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzo[g,h,i]perylene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzo[k]fluoranthene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzoic acid	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
Benzyl alcohol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Bis(2-chloroethoxy)methane	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Bis(2-chloroethyl)ether	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Bis(2-ethylhexyl) phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Butyl benzyl phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Chrysene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Dibenz(a,h)anthracene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Dibenzofuran	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Diethyl phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Dimethyl phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Fluoranthene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Fluorene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Hexachlorobenzene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Hexachlorobutadiene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Hexachlorocyclopentadiene	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
Hexachloroethane	ND	BA	100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Indeno[1,2,3-cd]pyrene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Isophorone	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Naphthalene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Nitrobenzene	ND		200		ug/L		07/31/12 18:50	08/03/12 21:13	10
N-Nitrosodi-n-propylamine	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
N-Nitrosodiphenylamine	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Pentachlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Phenanthrene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Phenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
bis (2-chloroisopropyl) ether	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Di-n-butyl phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Di-n-octyl phthalate	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
Pyrene	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
N-Nitrosodimethylamine	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10
2,6-Dichlorophenol	ND		100		ug/L		07/31/12 18:50	08/03/12 21:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*40 - 120*	*07/31/12 18:50*	*08/03/12 21:13*	*10*
2-Fluorobiphenyl	*75*		*50 - 120*	*07/31/12 18:50*	*08/03/12 21:13*	*10*
2-Fluorophenol (Surr)	*61*		*30 - 120*	*07/31/12 18:50*	*08/03/12 21:13*	*10*
Nitrobenzene-d5 (Surr)	*75*		*45 - 120*	*07/31/12 18:50*	*08/03/12 21:13*	*10*
Phenol-d6 (Surr)	*66*		*35 - 120*	*07/31/12 18:50*	*08/03/12 21:13*	*10*
Terphenyl-d14 (Surr)	*87*		*50 - 125*	*07/31/12 18:50*	*08/03/12 21:13*	*10*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-1
Date Collected: 07/24/12 15:36
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-1
Matrix: Water

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	**6500**		500		ug/L			07/31/12 19:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*65 - 140*		*07/31/12 19:47*	*10*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-2
Lab Sample ID: 440-18607-2
Date Collected: 07/24/12 12:13
Matrix: Water
Date Received: 07/27/12 07:30

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 11:12	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 11:12	1
Benzene	ND		0.50		ug/L			07/31/12 11:12	1
Ethanol	ND		150		ug/L			07/31/12 11:12	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 11:12	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 11:12	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 11:12	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 11:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/31/12 11:12	1
o-Xylene	ND		0.50		ug/L			07/31/12 11:12	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 11:12	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 11:12	1
Toluene	ND		0.50		ug/L			07/31/12 11:12	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*07/31/12 11:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/31/12 11:12*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 11:12*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*65 - 140*		*07/31/12 20:14*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-3
Date Collected: 07/24/12 15:07
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-3
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			07/31/12 13:03	10
1,2-Dichloroethane	ND		5.0		ug/L			07/31/12 13:03	10
Benzene	**19**		5.0		ug/L			07/31/12 13:03	10
Ethanol	ND		1500		ug/L			07/31/12 13:03	10
Ethylbenzene	**500**		5.0		ug/L			07/31/12 13:03	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			07/31/12 13:03	10
Isopropyl Ether (DIPE)	ND		5.0		ug/L			07/31/12 13:03	10
m,p-Xylene	**130**		10		ug/L			07/31/12 13:03	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/L			07/31/12 13:03	10
o-Xylene	**7.9**		5.0		ug/L			07/31/12 13:03	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			07/31/12 13:03	10
tert-Butyl alcohol (TBA)	ND		100		ug/L			07/31/12 13:03	10
Toluene	**6.8**		5.0		ug/L			07/31/12 13:03	10
Xylenes, Total	**140**		10		ug/L			07/31/12 13:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/31/12 13:03*	*10*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*07/31/12 13:03*	*10*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 13:03*	*10*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	**9500**		1000		ug/L			07/31/12 22:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*		*07/31/12 22:05*	*20*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-8
Date Collected: 07/24/12 11:35
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-4
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 13:31	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 13:31	1
Benzene	ND		0.50		ug/L			07/31/12 13:31	1
Ethanol	ND		150		ug/L			07/31/12 13:31	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 13:31	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 13:31	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 13:31	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 13:31	1
Methyl-t-Butyl Ether (MTBE)	**1.4**		0.50		ug/L			07/31/12 13:31	1
o-Xylene	ND		0.50		ug/L			07/31/12 13:31	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 13:31	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 13:31	1
Toluene	ND		0.50		ug/L			07/31/12 13:31	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/31/12 13:31*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*07/31/12 13:31*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 13:31*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*07/31/12 22:33*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-9
Date Collected: 07/24/12 08:58
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-5
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 13:59	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 13:59	1
Benzene	ND		0.50		ug/L			07/31/12 13:59	1
Ethanol	ND		150		ug/L			07/31/12 13:59	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 13:59	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 13:59	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 13:59	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 13:59	1
Methyl-t-Butyl Ether (MTBE)	**3.6**		0.50		ug/L			07/31/12 13:59	1
o-Xylene	ND		0.50		ug/L			07/31/12 13:59	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 13:59	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 13:59	1
Toluene	ND		0.50		ug/L			07/31/12 13:59	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/31/12 13:59*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/31/12 13:59*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/31/12 13:59*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*07/31/12 23:01*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-10
Date Collected: 07/24/12 08:25
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-6
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 14:26	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 14:26	1
Benzene	ND		0.50		ug/L			07/31/12 14:26	1
Ethanol	ND		150		ug/L			07/31/12 14:26	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 14:26	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 14:26	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 14:26	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 14:26	1
Methyl-t-Butyl Ether (MTBE)	**1.4**		0.50		ug/L			07/31/12 14:26	1
o-Xylene	ND		0.50		ug/L			07/31/12 14:26	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 14:26	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 14:26	1
Toluene	ND		0.50		ug/L			07/31/12 14:26	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/31/12 14:26*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/31/12 14:26*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/31/12 14:26*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*		*07/31/12 23:28*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-14
Date Collected: 07/24/12 10:03
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-7
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 14:54	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 14:54	1
Benzene	ND		0.50		ug/L			07/31/12 14:54	1
Ethanol	ND		150		ug/L			07/31/12 14:54	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 14:54	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 14:54	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 14:54	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 14:54	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/31/12 14:54	1
o-Xylene	ND		0.50		ug/L			07/31/12 14:54	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 14:54	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 14:54	1
Toluene	ND		0.50		ug/L			07/31/12 14:54	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/31/12 14:54*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*07/31/12 14:54*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 14:54*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*07/31/12 23:56*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-15
Date Collected: 07/24/12 09:30
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-8
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 15:22	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 15:22	1
Benzene	ND		0.50		ug/L			07/31/12 15:22	1
Ethanol	ND		150		ug/L			07/31/12 15:22	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 15:22	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 15:22	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 15:22	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 15:22	1
Methyl-t-Butyl Ether (MTBE)	**0.59**		0.50		ug/L			07/31/12 15:22	1
o-Xylene	ND		0.50		ug/L			07/31/12 15:22	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 15:22	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 15:22	1
Toluene	ND		0.50		ug/L			07/31/12 15:22	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/31/12 15:22*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/31/12 15:22*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*07/31/12 15:22*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			08/01/12 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*		*08/01/12 01:19*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-16
Date Collected: 07/24/12 14:42
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-9
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			07/31/12 15:50	4
1,2-Dichloroethane	ND		2.0		ug/L			07/31/12 15:50	4
Benzene	**30**		2.0		ug/L			07/31/12 15:50	4
Ethanol	ND		600		ug/L			07/31/12 15:50	4
Ethylbenzene	**240**		2.0		ug/L			07/31/12 15:50	4
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/31/12 15:50	4
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/31/12 15:50	4
m,p-Xylene	**260**		4.0		ug/L			07/31/12 15:50	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			07/31/12 15:50	4
o-Xylene	**49**		2.0		ug/L			07/31/12 15:50	4
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/31/12 15:50	4
tert-Butyl alcohol (TBA)	ND		40		ug/L			07/31/12 15:50	4
Toluene	**11**		2.0		ug/L			07/31/12 15:50	4
Xylenes, Total	**310**		4.0		ug/L			07/31/12 15:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*07/31/12 15:50*	*4*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/31/12 15:50*	*4*
Toluene-d8 (Surr)	*110*		*80 - 120*		*07/31/12 15:50*	*4*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	**2900**		500		ug/L			08/01/12 01:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*		*08/01/12 01:47*	*10*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-17
Date Collected: 07/24/12 12:43
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-10
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/31/12 16:18	2
1,2-Dichloroethane	ND		1.0		ug/L			07/31/12 16:18	2
Benzene	**83**		1.0		ug/L			07/31/12 16:18	2
Ethanol	ND		300		ug/L			07/31/12 16:18	2
Ethylbenzene	**100**		1.0		ug/L			07/31/12 16:18	2
Ethyl-t-butyl ether (ETBE)	ND		1.0		ug/L			07/31/12 16:18	2
Isopropyl Ether (DIPE)	ND		1.0		ug/L			07/31/12 16:18	2
m,p-Xylene	**87**		2.0		ug/L			07/31/12 16:18	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/31/12 16:18	2
o-Xylene	**4.8**		1.0		ug/L			07/31/12 16:18	2
Tert-amyl-methyl ether (TAME)	ND		1.0		ug/L			07/31/12 16:18	2
tert-Butyl alcohol (TBA)	ND		20		ug/L			07/31/12 16:18	2
Toluene	**4.6**		1.0		ug/L			07/31/12 16:18	2
Xylenes, Total	**92**		2.0		ug/L			07/31/12 16:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*07/31/12 16:18*	*2*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/31/12 16:18*	*2*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 16:18*	*2*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	**1600**		50		ug/L			08/01/12 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*08/01/12 02:15*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-18
Date Collected: 07/24/12 14:11
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-11
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 16:45	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 16:45	1
Benzene	ND		0.50		ug/L			07/31/12 16:45	1
Ethanol	ND		150		ug/L			07/31/12 16:45	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 16:45	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 16:45	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 16:45	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 16:45	1
Methyl-t-Butyl Ether (MTBE)	**1.8**		0.50		ug/L			07/31/12 16:45	1
o-Xylene	ND		0.50		ug/L			07/31/12 16:45	1
Tert-amyl-methyl ether (TAME)	**1.8**		0.50		ug/L			07/31/12 16:45	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 16:45	1
Toluene	ND		0.50		ug/L			07/31/12 16:45	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/31/12 16:45*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*07/31/12 16:45*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*07/31/12 16:45*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	**150**		50		ug/L			08/01/12 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*		*65 - 140*		*08/01/12 02:43*	*1*

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-19
Date Collected: 07/24/12 10:55
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-12
Matrix: Water

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 17:13	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 17:13	1
Benzene	ND		0.50		ug/L			07/31/12 17:13	1
Ethanol	ND		150		ug/L			07/31/12 17:13	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 17:13	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 17:13	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 17:13	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 17:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/31/12 17:13	1
o-Xylene	ND		0.50		ug/L			07/31/12 17:13	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 17:13	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 17:13	1
Toluene	ND		0.50		ug/L			07/31/12 17:13	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/31/12 17:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/31/12 17:13*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*07/31/12 17:13*	*1*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			08/01/12 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*		*08/01/12 03:10*	*1*

Client Sample ID: MW-1

Lab Sample ID: 440-18607-1

Date Collected: 07/24/12 15:36

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		2	10 mL	10 mL	41927	07/31/12 12:35	SS	TAL IRV
Total/NA	Prep	3520C			1000 mL	2 mL	42129	07/31/12 18:50	DM	TAL IRV
Total/NA	Analysis	8270C LL		10			43004	08/03/12 21:13	DF	TAL IRV
Total/NA	Analysis	8015B/5030B		10	10 mL	10 mL	42031	07/31/12 19:47	TL	TAL IRV

Client Sample ID: MW-2

Lab Sample ID: 440-18607-2

Date Collected: 07/24/12 12:13

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 11:12	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	07/31/12 20:14	TL	TAL IRV

Client Sample ID: MW-3

Lab Sample ID: 440-18607-3

Date Collected: 07/24/12 15:07

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		10	10 mL	10 mL	41927	07/31/12 13:03	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		20	10 mL	10 mL	42031	07/31/12 22:05	TL	TAL IRV

Client Sample ID: MW-8

Lab Sample ID: 440-18607-4

Date Collected: 07/24/12 11:35

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 13:31	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	07/31/12 22:33	TL	TAL IRV

Client Sample ID: MW-9

Lab Sample ID: 440-18607-5

Date Collected: 07/24/12 08:58

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 13:59	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	07/31/12 23:01	TL	TAL IRV

Client Sample ID: MW-10

Lab Sample ID: 440-18607-6

Date Collected: 07/24/12 08:25

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 14:26	SS	TAL IRV

Client Sample ID: MW-10

Lab Sample ID: 440-18607-6

Date Collected: 07/24/12 08:25

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	07/31/12 23:28	TL	TAL IRV

Client Sample ID: MW-14

Lab Sample ID: 440-18607-7

Date Collected: 07/24/12 10:03

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 14:54	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	07/31/12 23:56	TL	TAL IRV

Client Sample ID: MW-15

Lab Sample ID: 440-18607-8

Date Collected: 07/24/12 09:30

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 15:22	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	08/01/12 01:19	TL	TAL IRV

Client Sample ID: MW-16

Lab Sample ID: 440-18607-9

Date Collected: 07/24/12 14:42

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		4	10 mL	10 mL	41927	07/31/12 15:50	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		10	10 mL	10 mL	42031	08/01/12 01:47	TL	TAL IRV

Client Sample ID: MW-17

Lab Sample ID: 440-18607-10

Date Collected: 07/24/12 12:43

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		2	10 mL	10 mL	41927	07/31/12 16:18	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	08/01/12 02:15	TL	TAL IRV

Client Sample ID: MW-18

Lab Sample ID: 440-18607-11

Date Collected: 07/24/12 14:11

Matrix: Water

Date Received: 07/27/12 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 16:45	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	08/01/12 02:43	TL	TAL IRV

Lab Chronicle

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Client Sample ID: MW-19
Date Collected: 07/24/12 10:55
Date Received: 07/27/12 07:30

Lab Sample ID: 440-18607-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	41927	07/31/12 17:13	SS	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	42031	08/01/12 03:10	TL	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-41927/3
Matrix: Water
Analysis Batch: 41927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			07/31/12 10:09	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/12 10:09	1
Benzene	ND		0.50		ug/L			07/31/12 10:09	1
Ethanol	ND		150		ug/L			07/31/12 10:09	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 10:09	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 10:09	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 10:09	1
m,p-Xylene	ND		1.0		ug/L			07/31/12 10:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/31/12 10:09	1
o-Xylene	ND		0.50		ug/L			07/31/12 10:09	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 10:09	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 10:09	1
Toluene	ND		0.50		ug/L			07/31/12 10:09	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*07/31/12 10:09*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*07/31/12 10:09*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/31/12 10:09*	*1*

Lab Sample ID: LCS 440-41927/4
Matrix: Water
Analysis Batch: 41927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			25.0	25.0		ug/L		100	75 - 125		
1,2-Dichloroethane			25.0	23.8		ug/L		95	60 - 140		
Benzene			25.0	24.9		ug/L		100	70 - 120		
Ethanol			250	237		ug/L		95	40 - 155		
Ethylbenzene			25.0	26.1		ug/L		105	75 - 125		
Ethyl-t-butyl ether (ETBE)			25.0	22.6		ug/L		90	65 - 135		
Isopropyl Ether (DIPE)			25.0	22.5		ug/L		90	60 - 135		
m,p-Xylene			50.0	53.3		ug/L		107	75 - 125		
Methyl-t-Butyl Ether (MTBE)			25.0	24.1		ug/L		97	60 - 135		
o-Xylene			25.0	26.9		ug/L		108	75 - 125		
Tert-amyl-methyl ether (TAME)			25.0	23.4		ug/L		94	60 - 135		
tert-Butyl alcohol (TBA)			125	132		ug/L		106	70 - 135		
Toluene			25.0	26.2		ug/L		105	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-18607-2 MS
Matrix: Water
Analysis Batch: 41927

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		25.0	25.6		ug/L		102	70 - 130
1,2-Dichloroethane	ND		25.0	24.3		ug/L		97	60 - 140
Benzene	ND		25.0	25.4		ug/L		102	65 - 125
Ethanol	ND		250	217		ug/L		87	40 - 155
Ethylbenzene	ND		25.0	26.1		ug/L		104	65 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.1		ug/L		97	60 - 135
Isopropyl Ether (DIPE)	ND		25.0	24.3		ug/L		97	60 - 140
m,p-Xylene	ND		50.0	53.9		ug/L		108	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.6		ug/L		106	55 - 145
o-Xylene	ND		25.0	27.6		ug/L		110	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	26.0		ug/L		104	60 - 140
tert-Butyl alcohol (TBA)	ND		125	131		ug/L		105	65 - 140
Toluene	ND		25.0	26.2		ug/L		105	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: 440-18607-2 MSD
Matrix: Water
Analysis Batch: 41927

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		25.0	25.0		ug/L		100	70 - 130	2	25
1,2-Dichloroethane	ND		25.0	23.7		ug/L		95	60 - 140	3	20
Benzene	ND		25.0	25.5		ug/L		102	65 - 125	0	20
Ethanol	ND		250	269		ug/L		108	40 - 155	22	30
Ethylbenzene	ND		25.0	26.3		ug/L		105	65 - 130	1	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.6		ug/L		94	60 - 135	2	25
Isopropyl Ether (DIPE)	ND		25.0	23.9		ug/L		96	60 - 140	2	25
m,p-Xylene	ND		50.0	53.5		ug/L		107	65 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.8		ug/L		99	55 - 145	7	25
o-Xylene	ND		25.0	27.1		ug/L		108	65 - 125	2	20
Tert-amyl-methyl ether (TAME)	ND		25.0	24.9		ug/L		100	60 - 140	4	30
tert-Butyl alcohol (TBA)	ND		125	139		ug/L		111	65 - 140	6	25
Toluene	ND		25.0	26.3		ug/L		105	70 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 440-42129/1-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42129

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
1,2-Dichlorobenzene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
1,3-Dichlorobenzene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
1,4-Dichlorobenzene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4,5-Trichlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4,6-Trichlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4-Dichlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4-Dimethylphenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4-Dinitrophenol	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,4-Dinitrotoluene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,6-Dinitrotoluene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Chloronaphthalene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Chlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Methylnaphthalene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Methylphenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Nitroaniline	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2-Nitrophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
3,3'-Dichlorobenzidine	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
3-Nitroaniline	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Bromophenyl phenyl ether	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Chloro-3-methylphenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Chloroaniline	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Nitroaniline	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
4-Nitrophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Acenaphthene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Acenaphthylene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Aniline	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Anthracene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzidine	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzo[a]anthracene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzo[a]pyrene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzo[b]fluoranthene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzo[g,h,i]perylene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzo[k]fluoranthene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzoic acid	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
Benzyl alcohol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Bis(2-chloroethyl)ether	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Butyl benzyl phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Chrysene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Dibenz(a,h)anthracene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Dibenzofuran	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Diethyl phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Dimethyl phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 440-42129/1-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42129

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Fluorene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Hexachlorobenzene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Hexachlorobutadiene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Hexachlorocyclopentadiene	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
Hexachloroethane	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Isophorone	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Naphthalene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Nitrobenzene	ND		20		ug/L		07/31/12 18:50	08/03/12 19:26	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
N-Nitrosodiphenylamine	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Pentachlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Phenanthrene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Phenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Di-n-butyl phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Di-n-octyl phthalate	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
Pyrene	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
N-Nitrosodimethylamine	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1
2,6-Dichlorophenol	ND		10		ug/L		07/31/12 18:50	08/03/12 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*40 - 120*	*07/31/12 18:50*	*08/03/12 19:26*	*1*
2-Fluorobiphenyl	*89*		*50 - 120*	*07/31/12 18:50*	*08/03/12 19:26*	*1*
2-Fluorophenol (Surr)	*76*		*30 - 120*	*07/31/12 18:50*	*08/03/12 19:26*	*1*
Nitrobenzene-d5 (Surr)	*92*		*45 - 120*	*07/31/12 18:50*	*08/03/12 19:26*	*1*
Phenol-d6 (Surr)	*85*		*35 - 120*	*07/31/12 18:50*	*08/03/12 19:26*	*1*
Terphenyl-d14 (Surr)	*90*		*50 - 125*	*07/31/12 18:50*	*08/03/12 19:26*	*1*

Lab Sample ID: LCS 440-42129/2-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	ND		ug/L		71	44 - 120
1,2-Dichlorobenzene	10.0	ND		ug/L		70	43 - 120
1,2-Diphenylhydrazine(as Azobenzene)	10.0	ND		ug/L		72	59 - 124
1,3-Dichlorobenzene	10.0	ND		ug/L		67	41 - 120
1,4-Dichlorobenzene	10.0	ND		ug/L		69	41 - 120
2,4,5-Trichlorophenol	10.0	ND		ug/L		78	20 - 138
2,4,6-Trichlorophenol	10.0	ND		ug/L		77	20 - 139
2,4-Dichlorophenol	10.0	ND		ug/L		83	21 - 132
2,4-Dimethylphenol	10.0	ND		ug/L		78	51 - 120
2,4-Dinitrophenol	10.0	ND		ug/L		87	20 - 134
2,4-Dinitrotoluene	10.0	ND		ug/L		79	65 - 120
2,6-Dinitrotoluene	10.0	ND		ug/L		77	65 - 120
2-Chloronaphthalene	10.0	ND		ug/L		69	54 - 120
2-Chlorophenol	10.0	ND		ug/L		78	20 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 440-42129/2-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	10.0	ND		ug/L		76	55 - 120
2-Methylphenol	10.0	ND		ug/L		79	47 - 120
2-Nitroaniline	10.0	ND		ug/L		77	60 - 135
2-Nitrophenol	10.0	ND		ug/L		77	21 - 132
3,3'-Dichlorobenzidine	10.0	ND		ug/L		59	25 - 135
3-Nitroaniline	10.0	ND		ug/L		78	63 - 123
4,6-Dinitro-2-methylphenol	10.0	ND		ug/L		90	22 - 147
4-Bromophenyl phenyl ether	10.0	ND		ug/L		74	58 - 120
4-Chloro-3-methylphenol	10.0	ND		ug/L		88	46 - 123
4-Chloroaniline	10.0	ND		ug/L		83	52 - 120
4-Chlorophenyl phenyl ether	10.0	ND		ug/L		74	50 - 122
3-Methylphenol + 4-Methylphenol	10.0	ND		ug/L		82	50 - 120
4-Nitroaniline	10.0	ND		ug/L		81	60 - 126
4-Nitrophenol	10.0	ND		ug/L		84	20 - 151
Acenaphthene	10.0	ND		ug/L		80	57 - 120
Acenaphthylene	10.0	ND		ug/L		80	60 - 120
Aniline	10.0	ND		ug/L		77	53 - 120
Anthracene	10.0	ND		ug/L		77	62 - 120
Benzidine	10.0	ND	LR	ug/L		12	20 - 168
Benzo[a]anthracene	10.0	ND		ug/L		80	62 - 120
Benzo[a]pyrene	10.0	ND		ug/L		79	66 - 130
Benzo[b]fluoranthene	10.0	ND		ug/L		82	63 - 125
Benzo[g,h,i]perylene	10.0	ND		ug/L		78	52 - 136
Benzo[k]fluoranthene	10.0	ND		ug/L		74	61 - 127
Benzoic acid	10.0	ND		ug/L		85	20 - 120
Benzyl alcohol	10.0	ND		ug/L		86	50 - 120
Bis(2-chloroethoxy)methane	10.0	ND		ug/L		83	57 - 120
Bis(2-chloroethyl)ether	10.0	ND		ug/L		80	54 - 120
Bis(2-ethylhexyl) phthalate	10.0	ND		ug/L		83	61 - 126
Butyl benzyl phthalate	10.0	ND		ug/L		84	57 - 129
Chrysene	10.0	ND		ug/L		80	63 - 120
Dibenz(a,h)anthracene	10.0	ND		ug/L		65	56 - 124
Dibenzofuran	10.0	ND		ug/L		74	60 - 120
Diethyl phthalate	10.0	ND		ug/L		82	44 - 131
Dimethyl phthalate	10.0	ND		ug/L		77	33 - 140
Fluoranthene	10.0	ND		ug/L		79	64 - 120
Fluorene	10.0	ND		ug/L		75	52 - 120
Hexachlorobenzene	10.0	ND		ug/L		74	61 - 120
Hexachlorobutadiene	10.0	ND		ug/L		68	34 - 120
Hexachlorocyclopentadiene	10.0	ND		ug/L		52	23 - 120
Hexachloroethane	10.0	ND		ug/L		65	34 - 120
Indeno[1,2,3-cd]pyrene	10.0	ND		ug/L		69	59 - 128
Isophorone	10.0	10.2		ug/L		102	50 - 120
Naphthalene	10.0	ND		ug/L		76	52 - 120
Nitrobenzene	10.0	ND		ug/L		81	52 - 120
N-Nitrosodi-n-propylamine	10.0	ND		ug/L		83	60 - 120
N-Nitrosodiphenylamine	10.0	ND		ug/L		76	58 - 120
Pentachlorophenol	10.0	ND		ug/L		83	20 - 137
Phenanthrene	10.0	ND		ug/L		78	62 - 120
Phenol	10.0	ND		ug/L		74	20 - 120

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 440-42129/2-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	10.0	ND		ug/L		81	45 - 120
Di-n-butyl phthalate	10.0	ND		ug/L		82	60 - 126
Di-n-octyl phthalate	10.0	ND		ug/L		85	63 - 130
Pyrene	10.0	ND		ug/L		84	54 - 120
N-Nitrosodimethylamine	10.0	ND		ug/L		75	20 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 120*
2-Fluorobiphenyl	*76*		*50 - 120*
2-Fluorophenol (Surr)	*65*		*30 - 120*
Nitrobenzene-d5 (Surr)	*85*		*45 - 120*
Phenol-d6 (Surr)	*75*		*35 - 120*
Terphenyl-d14 (Surr)	*85*		*50 - 125*

Lab Sample ID: LCSD 440-42129/3-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42129

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	10.0	ND	BA	ug/L		58	44 - 120	21	20
1,2-Dichlorobenzene	10.0	ND		ug/L		56	43 - 120	23	25
1,2-Diphenylhydrazine(as Azobenzene)	10.0	ND		ug/L		67	59 - 124	7	25
1,3-Dichlorobenzene	10.0	ND	BA	ug/L		52	41 - 120	26	25
1,4-Dichlorobenzene	10.0	ND		ug/L		53	41 - 120	25	25
2,4,5-Trichlorophenol	10.0	ND		ug/L		70	20 - 138	11	30
2,4,6-Trichlorophenol	10.0	ND		ug/L		68	20 - 139	12	30
2,4-Dichlorophenol	10.0	ND		ug/L		75	21 - 132	10	20
2,4-Dimethylphenol	10.0	ND		ug/L		71	51 - 120	10	25
2,4-Dinitrophenol	10.0	ND		ug/L		78	20 - 134	11	25
2,4-Dinitrotoluene	10.0	ND		ug/L		72	65 - 120	10	20
2,6-Dinitrotoluene	10.0	ND		ug/L		72	65 - 120	6	20
2-Chloronaphthalene	10.0	ND		ug/L		57	54 - 120	19	20
2-Chlorophenol	10.0	ND		ug/L		68	20 - 122	14	25
2-Methylnaphthalene	10.0	ND		ug/L		63	55 - 120	18	20
2-Methylphenol	10.0	ND		ug/L		71	47 - 120	11	20
2-Nitroaniline	10.0	ND		ug/L		72	60 - 135	8	20
2-Nitrophenol	10.0	ND		ug/L		70	21 - 132	9	25
3,3'-Dichlorobenzidine	10.0	ND		ug/L		54	25 - 135	9	25
3-Nitroaniline	10.0	ND		ug/L		70	63 - 123	10	25
4,6-Dinitro-2-methylphenol	10.0	ND		ug/L		83	22 - 147	8	25
4-Bromophenyl phenyl ether	10.0	ND		ug/L		68	58 - 120	9	25
4-Chloro-3-methylphenol	10.0	ND		ug/L		75	46 - 123	15	25
4-Chloroaniline	10.0	ND		ug/L		74	52 - 120	12	25
4-Chlorophenyl phenyl ether	10.0	ND		ug/L		69	50 - 122	6	20
3-Methylphenol + 4-Methylphenol	10.0	ND		ug/L		74	50 - 120	10	20
4-Nitroaniline	10.0	ND		ug/L		73	60 - 126	11	20
4-Nitrophenol	10.0	ND		ug/L		81	20 - 151	3	30
Acenaphthene	10.0	ND		ug/L		69	57 - 120	14	20
Acenaphthylene	10.0	ND		ug/L		69	60 - 120	15	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 440-42129/3-A
Matrix: Water
Analysis Batch: 43004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42129

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	10.0	ND		ug/L		77	53 - 120	1	30
Anthracene	10.0	ND		ug/L		69	62 - 120	10	20
Benzidine	10.0	ND	BA	ug/L		29	20 - 168	81	35
Benzo[a]anthracene	10.0	ND		ug/L		72	62 - 120	10	20
Benzo[a]pyrene	10.0	ND		ug/L		74	66 - 130	7	25
Benzo[b]fluoranthene	10.0	ND		ug/L		76	63 - 125	7	25
Benzo[g,h,i]perylene	10.0	ND		ug/L		67	52 - 136	15	25
Benzo[k]fluoranthene	10.0	ND		ug/L		69	61 - 127	7	20
Benzoic acid	10.0	ND		ug/L		66	20 - 120	25	30
Benzyl alcohol	10.0	ND		ug/L		76	50 - 120	12	20
Bis(2-chloroethoxy)methane	10.0	ND		ug/L		74	57 - 120	13	20
Bis(2-chloroethyl)ether	10.0	ND		ug/L		70	54 - 120	13	20
Bis(2-ethylhexyl) phthalate	10.0	ND		ug/L		83	61 - 126	0	20
Butyl benzyl phthalate	10.0	ND		ug/L		79	57 - 129	7	20
Chrysene	10.0	ND		ug/L		73	63 - 120	8	20
Dibenz(a,h)anthracene	10.0	ND		ug/L		62	56 - 124	5	25
Dibenzofuran	10.0	ND		ug/L		67	60 - 120	9	20
Diethyl phthalate	10.0	ND		ug/L		74	44 - 131	11	30
Dimethyl phthalate	10.0	ND		ug/L		70	33 - 140	9	30
Fluoranthene	10.0	ND		ug/L		73	64 - 120	7	20
Fluorene	10.0	ND		ug/L		70	52 - 120	7	20
Hexachlorobenzene	10.0	ND		ug/L		66	61 - 120	11	20
Hexachlorobutadiene	10.0	ND		ug/L		53	34 - 120	24	25
Hexachlorocyclopentadiene	10.0	ND		ug/L		41	23 - 120	23	30
Hexachloroethane	10.0	ND	BA	ug/L		49	34 - 120	27	25
Indeno[1,2,3-cd]pyrene	10.0	ND		ug/L		63	59 - 128	9	25
Isophorone	10.0	ND		ug/L		83	50 - 120	20	20
Naphthalene	10.0	ND		ug/L		65	52 - 120	16	20
Nitrobenzene	10.0	ND		ug/L		74	52 - 120	9	25
N-Nitrosodi-n-propylamine	10.0	ND		ug/L		71	60 - 120	15	20
N-Nitrosodiphenylamine	10.0	ND		ug/L		69	58 - 120	10	20
Pentachlorophenol	10.0	ND		ug/L		77	20 - 137	7	25
Phenanthrene	10.0	ND		ug/L		69	62 - 120	12	20
Phenol	10.0	ND		ug/L		69	20 - 120	7	25
bis (2-chloroisopropyl) ether	10.0	ND		ug/L		71	45 - 120	13	20
Di-n-butyl phthalate	10.0	ND		ug/L		74	60 - 126	10	20
Di-n-octyl phthalate	10.0	ND		ug/L		75	63 - 130	13	20
Pyrene	10.0	ND		ug/L		76	54 - 120	10	25
N-Nitrosodimethylamine	10.0	ND		ug/L		69	20 - 143	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*40 - 120*
2-Fluorobiphenyl	*61*		*50 - 120*
2-Fluorophenol (Surr)	*59*		*30 - 120*
Nitrobenzene-d5 (Surr)	*76*		*45 - 120*
Phenol-d6 (Surr)	*69*		*35 - 120*
Terphenyl-d14 (Surr)	*80*		*50 - 125*

Method: 8015B/5030B - Gasoline Range Organics (GC)

Lab Sample ID: MB 440-42031/4
Matrix: Water
Analysis Batch: 42031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50		ug/L			07/31/12 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*65 - 140*		*07/31/12 19:11*	*1*

Lab Sample ID: LCS 440-42031/2
Matrix: Water
Analysis Batch: 42031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	745		ug/L		93	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*65 - 140*

Lab Sample ID: 440-18607-2 MS
Matrix: Water
Analysis Batch: 42031

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		800	613		ug/L		77	65 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*65 - 140*

Lab Sample ID: 440-18607-2 MSD
Matrix: Water
Analysis Batch: 42031

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	621		ug/L		78	65 - 140	1	20

GC/MS VOA

Analysis Batch: 41927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18607-1	MW-1	Total/NA	Water	8260B/5030B	
440-18607-2	MW-2	Total/NA	Water	8260B/5030B	
440-18607-2 MS	MW-2	Total/NA	Water	8260B/5030B	
440-18607-2 MSD	MW-2	Total/NA	Water	8260B/5030B	
440-18607-3	MW-3	Total/NA	Water	8260B/5030B	
440-18607-4	MW-8	Total/NA	Water	8260B/5030B	
440-18607-5	MW-9	Total/NA	Water	8260B/5030B	
440-18607-6	MW-10	Total/NA	Water	8260B/5030B	
440-18607-7	MW-14	Total/NA	Water	8260B/5030B	
440-18607-8	MW-15	Total/NA	Water	8260B/5030B	
440-18607-9	MW-16	Total/NA	Water	8260B/5030B	
440-18607-10	MW-17	Total/NA	Water	8260B/5030B	
440-18607-11	MW-18	Total/NA	Water	8260B/5030B	
440-18607-12	MW-19	Total/NA	Water	8260B/5030B	
LCS 440-41927/4	Lab Control Sample	Total/NA	Water	8260B/5030B	
MB 440-41927/3	Method Blank	Total/NA	Water	8260B/5030B	

GC/MS Semi VOA

Prep Batch: 42129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18607-1	MW-1	Total/NA	Water	3520C	
LCS 440-42129/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-42129/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-42129/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 43004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18607-1	MW-1	Total/NA	Water	8270C LL	42129
LCS 440-42129/2-A	Lab Control Sample	Total/NA	Water	8270C LL	42129
LCSD 440-42129/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	42129
MB 440-42129/1-A	Method Blank	Total/NA	Water	8270C LL	42129

GC VOA

Analysis Batch: 42031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18607-1	MW-1	Total/NA	Water	8015B/5030B	
440-18607-2	MW-2	Total/NA	Water	8015B/5030B	
440-18607-2 MS	MW-2	Total/NA	Water	8015B/5030B	
440-18607-2 MSD	MW-2	Total/NA	Water	8015B/5030B	
440-18607-3	MW-3	Total/NA	Water	8015B/5030B	
440-18607-4	MW-8	Total/NA	Water	8015B/5030B	
440-18607-5	MW-9	Total/NA	Water	8015B/5030B	
440-18607-6	MW-10	Total/NA	Water	8015B/5030B	
440-18607-7	MW-14	Total/NA	Water	8015B/5030B	
440-18607-8	MW-15	Total/NA	Water	8015B/5030B	
440-18607-9	MW-16	Total/NA	Water	8015B/5030B	
440-18607-10	MW-17	Total/NA	Water	8015B/5030B	
440-18607-11	MW-18	Total/NA	Water	8015B/5030B	
440-18607-12	MW-19	Total/NA	Water	8015B/5030B	
LCS 440-42031/2	Lab Control Sample	Total/NA	Water	8015B/5030B	

GC VOA (Continued)

Analysis Batch: 42031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-42031/4	Method Blank	Total/NA	Water	8015B/5030B	

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
BA	Relative percent difference out of control
LR	LCS/LCSD recovery below method control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-18607-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14

Laboratory Management Program LaMP Chain of Custody Record

440-150107

Page 1 of 1

BP Site Node Path: 06-88-605 **Req Due Date (mm/dd/yy):** _____ **Rush TAT:** Yes ____ No ____

BP Facility No: 601 **Lab Work Order Number:** _____

Lab Name: Test America	Facility Address: 712 Lewelling Blvd.	Consultant/Contractor: Broadbent and Associates
Lab Address: 17461 Derian Suite #100, Irvine, CA 92641	City, State, ZIP Code: San Leandro, CA 94579	Consultant/Contractor Project No: 06-88-605
Lab PM: Pat Abe	Lead Regulatory Agency: City of San Leandro/ACEH	Address: 875 Cotting Lane, Ste. G, Vacaville, CA 95688
Lab Phone: 949-261-1022	California Global ID No.: T0600100108	Consultant/Contractor PM: Tom Sparrowe
Lab Shipping Accnt: 1103-6633-7	Enfos Proposal No: 005ZB-0001	Phone: 707-455-7290 Email: 707-455-7295
Lab Bottle Order No:	Accounting Mode: Provision X OOC-BU ____ OOC-RM ____	Email EDD To: tsparrowe@broadbentinc.com and to lab.enfosdoc@bp.com
Other Info:	Stage: Operate (40) Activity: Monitoring/MNA (80)	Invoice To: BP X Contractor ____
BP Project Manager (PM): Shannon Couch		
BP PM Phone: 925-275-3804		
BP PM Email: shannon.couch@bp.com		

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix: Is this location a well?	No. Containers / Preservative: Total Number of Container	Unpreserved	H2SO4	HNO3	HCl	Methanol		Requested Analyses: GRO by 8015M	BTEX/5 FO + EDB by 8260	1,2-DCA by 8260	Ethanol by 8260	SVOCs by 8270						Report Type & QC Level / Comments
	MW-1	7/24/2012	1536		x				2			3			x	x	x	x	x						
	MW-2	7/24/2012	1213		x							6			x	x	x	x							
	MW-3	7/24/2012	1507		x							6			x	x	x	x							
	MW-8	7/24/2012	1135		x							6			x	x	x	x							
	MW-9	7/24/2012	0858		x							6			x	x	x	x							
	MW-10	7/24/2012	0825		x							6			x	x	x	x							
	MW-14	7/24/2012	1003		x							6			x	x	x	x							
	MW-15	7/24/2012	0950		x							6			x	x	x	x							
	MW-16	7/24/2012	1442		x							6			x	x	x	x							
	MW-17	7/24/2012	1243		x							6			x	x	x	x							
	MW-18	7/24/2012	1411		x							6			x	x	x	x							
	MW-19	7/24/2012	1055		x							6			x	x	x	x							
	TB-601-07242012	7/24/2012	--		x							1													On Hold

Standard ____

Full Data Package ____

Comments

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Alex Martinez	Relinquished By / Affiliation BAT	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Broadbent and Associates	Alex Martinez	7/24/12	1700			
Shipment Method: FedEx Ship Date: 7/25/12						
Shipment Tracking No: 8007 0518 4465					7/26/12	07:30

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.8 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Login Sample Receipt Checklist

Client: Broadbent & Associates, Inc.

Job Number: 440-18607-1

Login Number: 18607

List Source: TestAmerica Irvine

List Number: 1

Creator: Avila, Stephanie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Alex Martinez
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	**GEO_WELL**
Report Title:	**3Q12 GEO_WELL 601**
Facility Global ID:	**T0600100108**
Facility Name:	**ARCO #0601**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**10/22/2012 3:53:02 PM**
Confirmation Number:	**2224353849**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF**
Report Title:	**3Q12 GW Monitoring**
Report Type:	**Monitoring Report - Semi-Annually**
Facility Global ID:	**T0600100108**
Facility Name:	**ARCO #0601**
File Name:	**440-18607-1_11 Aug 12 1447_EDF.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**10/22/2012 3:47:32 PM**
Confirmation Number:	**3108383119**

VIEW QC REPORT

VIEW DETECTIONS REPORT