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2:15 pm, Jul 31, 2007

# Alameda County Environmental Health



Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, CA 94583

Phone: (925) 275-3801 Fax: (925) 275-3815

July 27, 2007

Re: Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report Atlantic Richfield Company Station #6113 785 East Stanley Boulevard Livermore, CA ACEH Case No. RO0000393

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

Submitted by:

Paul Supple

Environmental Business Manger



# Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report

Atlantic Richfield Company Station #6113
785 East Stanley Boulevard
Livermore, California

# Prepared for

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

# Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

July 2007

Project No. 06-02-637

Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212 Chico, CA 95926 Voice (530) 566-1400 Fax (530) 566-1401



July 27, 2007

Project No. 06-02-637

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

Attn.: Mr. Paul Supple

Re:

Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report, Atlantic Richfield

Company (a BP affiliated company) Station #6113, 785 East Stanley Boulevard,

Livermore, CA. ACEH Case No. RO0000393.

Dear Mr. Supple:

Attached is the Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report for Atlantic Richfield Company Station #6113 (herein referred to as Station #6113) located at 785 East Stanley Boulevard, Livermore, CA (Property). This report presents a summary of Second Quarter, 2007 ground-water monitoring results.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Matthew G. Herrick, P.G.

Project Hydrogeologist

Robert H. Miller, P.G., C.HG. Principal Hydrogeologist

Subut 71. Mill

Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (submitted via ACEH ftp site)

Mr. Paul M. Smith/Ms. Danielle Stefani, Livermore-Pleasanton Fire Department (submitted via GeoTracker)

GeoTracker

ARIZONA

CALIFORNIA

NEVADA

**TEXAS** 

ROBERT H.

MILLER

No. 4893

# STATION # 6113 SEMI-ANNUAL GROUND-WATER MONITORING REPORT

Facility: 6113 Address: 785 East Stanley Boulevard, Livermore, CA Station 6113 Environmental Business Manager: Mr. Paul Supple Consulting Co./Contact Persons: Broadbent & Associates, Inc. (BAI) / Rob Miller & Matt Herrick Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH) / ACEH Case No. RO0000393 Consultant Project No.: 06-02-637 Facility Permits/Permitting Agency.: NA

# **WORK PERFORMED THIS QUARTER (Second Quarter, 2007):**

- 1. Submit First Quarter, 2007 Status Report. Report completed by BAI.
- 2. Conducted ground-water monitoring/sampling for Second Quarter, 2007. Work performed by Stratus Environmental, Inc.

# WORK PROPOSED FOR NEXT QUARTER (Third Quarter, 2007):

- 1. Submit Second Quarter, 2007 Report (contained herein).
- 2. No ground-water monitoring/sampling activities are scheduled to be completed on the Property during the Third Quarter, 2007.

# **QUARTERLY RESULTS SUMMARY:**

Current phase of project: Groundwater monitoring/sa	ımpıing
Frequency of ground-water sampling: Wells MW-4, MW-6, MW-7	, MW-11 through MW-13,
VW-1: Semi Annually (2Q a	and 4Q)
Wells MW-3, MW-9, and M	W-10: Annually (4Q)
Frequency of ground-water monitoring: Semi-Annually (2Q and 4Q)	
Is free product (FP) present on-site: No	
FP recovered this quarter: NA	
Bulk Soil Removed to Date: 288 cubic yards TPH impact	ted soil
Current remediation techniques: Air Diffusion	
Depth to ground water (below TOC): 20.91 (VW-4) to 24.00 (MW-	-10)
General ground-water flow direction: Northeast	
Approximate hydraulic gradient: 0.013 feet per foot	

# **DISCUSSION:**

Gasoline range organics were detected in three wells sampled during Second Quarter, 2007 at concentrations ranging from 250 micrograms per liter ( $\mu$ g/L) in well VW-1 to 14,000  $\mu$ g/L in well MW-13. Benzene was detected in two wells at 60  $\mu$ g/L (MW-13) and 1.6  $\mu$ g/L (VW-1). Ethylbenzene was detected in two wells at 1,800  $\mu$ g/L (MW-13) and 4.7  $\mu$ g/L (VW-1). Xylenes were detected wells MW-13 and VW-1 at 640  $\mu$ g/L and 1.3  $\mu$ g/L, respectively. Methyl tert-butyl ether was detected in wells MW-6, MW-11, MW-13, and VW-1 with concentrations ranging from 3.0  $\mu$ g/L (VW-1) to 2,200  $\mu$ g/L (MW-6). Tert-Amyl methyl ether (TAME) was detected in MW-4 at 0.66  $\mu$ g/L. No other analytes were detected in samples collected during the Second Quarter, 2007.

Analytes detected during Second Quarter, 2007 were all within the historic minimum and maximum concentration ranges recorded for each well, with the following exceptions: benzene and MTBE in MW-13 are the lowest concentrations historically detected in the well. TAME was detected in

MW-4 for the first time at a very low concentration. Ground-water elevations measured during the Second Quarter, 2007 were within historic minimum and maximum ranges for each well, with the following exceptions: the ground-water elevation in MW-12, MW-13, VW-1, VW-2, and VW-4 are at the lowest levels historically measured in each well.

Drawing 1 depicts a ground-water elevation contour and an analytical summary map for the Second Quarter, 2007. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 lists historical ground-water flow direction and gradient data.

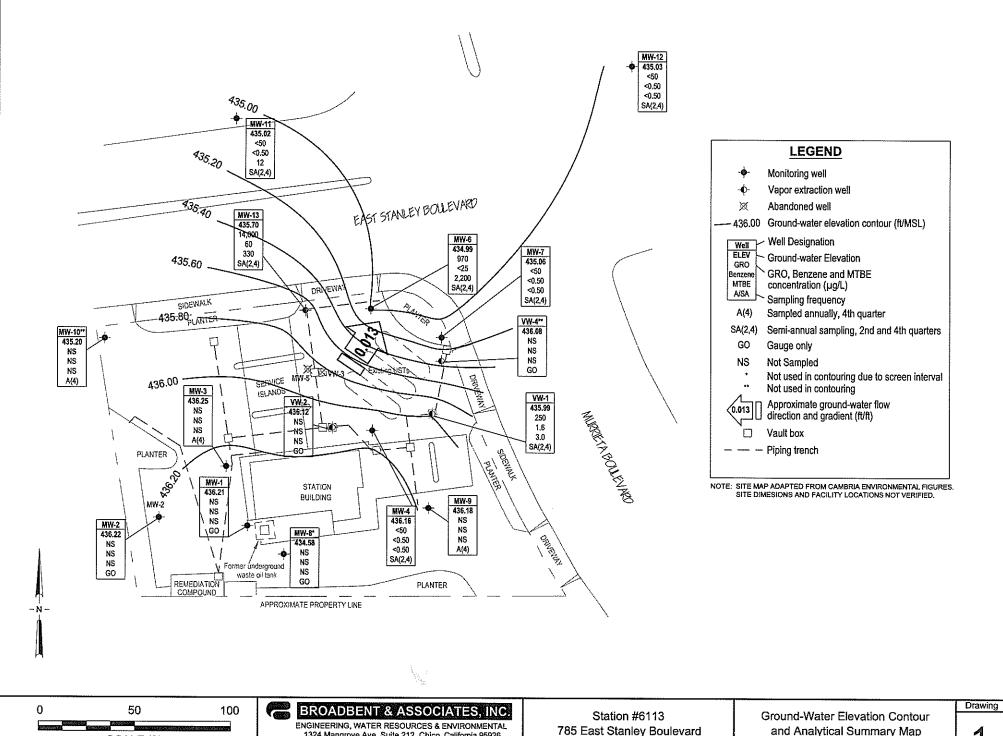
### **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus Environmental, Inc. and/or their subcontractors field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by TestAmerica (Morgan Hill, CA). 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 Atlantic Richfield Company. It is possible that variations in soil or ground-water 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.	Ground-Water Elevation Contour and Analytical Summary Map, Station #6113,
	Livermore, CA

- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #6113, Livermore CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #6113, Livermore, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #6113, Livermore, CA
- Appendix A. Stratus Environmental, Inc. Groundwater Sampling Data Package (Includes Bill of Lading, Field Data Sheets, Laboratory Report and Chain of Custody Documentation).
- Appendix B. GeoTracker Upload Confirmation.



SCALE (ft)

1324 Mangrove Ave, Suite 212, Chico, California 95926 Project No.: 06-02-637 Date: 7/10/2007 Livermore, California

and Analytical Summary Map April 19, 2007

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-1															
3/23/1995		e	457.04	29.0	44.0	14.12	442.92	-							
5/31/1995		e	457.04	29.0	44.0	14.45	442.59								
8/31/1995	<u></u>	e	457.04	29.0	44.0	17.12	439.92	-	_						
11/28/1995		21VVI SUSTA 124945 SOLESOE TO 6000 10 (62.00 10 OCT. 1	457.04	29.0	44.0	16.34	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3		**
2/22/1996	1 4 4	e	457.04	29.0	44.0	13.23	443,81	-	-	=		-	-	5y7003320000	92771777
5/23/1996		G Commenter	457.04	29.0	44.0	14.02	443.02								1983638
8/8/1996		e	457.04	29.0	44.0	16.13	440.91	-	-		3 (i) <u>-7</u> /( ii)			<u> </u>	
11/7/1996		55000-00-01-02-00-00-00-00-00-00-00-00-00-00-00-00-	457.04	29.0	44.0	17.28	439.76	<50	<0.5	<0.5	<0.5	<0.5	<3	1.558246004640 	
3/27/1997	9 9 <b></b> 0 6	е	457.04	29.0	44.0	14.91	442.13	_	- S	-				<u></u>	
5/19/1997		e	457.04	29.0	44.0	16.47	440.57								1353335193
5/18/1998		е	457.04	29.0	44.0	14.69	442.35		-		i <b></b>				
11/2/1998			457.04	29.0	44.0	25.94	431.10	<50	<0.5	<0.5	<0.5	<0.5	<3		
6/4/1999		е	457.04	29.0	44.0	17.38	439.66	-		-	-				
11/11/1999	P		457.04	29.0	44.0	18.63	438.41	<50	<0.5	<0.5	<0.5	<1	<3	1.03	
6/20/2000		e	457.04	29.0	44.0	17.09	439,95	-	-	-	-55			3.1	
8/29/2000		e	457.04	29.0	44.0	18.20	438.84					***		2.66	
11/29/2000	P		457.04	29.0	44.0	20.30	436.74	<50.0	<0.500	<0.500	<0.500	1.36	<2.50	0.71	
5/2/2001		e	457.04	29.0	44.0	22.39	434.65			***				-	***
8/15/2001		e	457.04	29.0	44.0	24.97	432.07	-	-						
10/5/2001	P		457.04	29.0	44.0	25.09	431.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.78	
1/21/2002		е	457.04	29.0	44.0	24.58	432.46	_	_				<u>-</u>	-	
4/26/2002		e	457.04	29.0	44.0	24.19	432.85	**				***	***	***	
10/7/2002	-		457.04	29.0	44.0	20.13	436.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1,8	
05/01/2003		r	457.04	29.0	44.0	17.98	439.06				<del></del>				11387202025
10/27/2005	± 10.70 m		459.41	29.0	44.0	18.45	440.96		-	1 (d <b>-2</b> ) (d)			Mario Z Grad	-	
04/12/2006	THE CONTROL CO	PERIOD PROCESSOR SON SERVICE OF THE STREET PROGRAMMENT AND A STREET	459.41	29.0	44.0	15.18	444.23					**	**	***	NASTACH UTSTAN
10/31/2006			459.41	29.0	44.0	19.18	440.23	-	-	0 00 <del>-</del> 0			10 m -	-	(7)179
4/19/2007			459.41	29.0	44.0	23.20	436.21								
MW-2							-								
3/23/1995	-		457.74	28.0	38.0	14.15	443.59								

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses Station #6113, 785 East Stanley Blvd., Livermore, CA

Comments  e e e e e e	TOC (feet msl)  457.74  457.74  457.74  457.74  457.74  457.74  457.74  457.74  457.74  457.74	Screen (ft bgs)  28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.	Screen (ft bgs)  38.0  38.0  38.0  38.0  38.0  38.0  38.0  38.0  38.0  38.0	14.67 17.24 16.40 13.55 14.29 16.19 17.50 15.32	Elevation (feet msl)  443.07  440.50  441.34  444.19  443.45  441.55  440.24	GRO/ TPHg  <50 65		Toluene  <0.5	Ethyl-Benzene	Total Xylenes  <0.5	MTBE	DO (mg/L)	pH  
e e e e e e e e e e e e e e e e e e e	457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0	14.67 17.24 16.40 13.55 14.29 16.19	443.07 440.50 441.34 444.19 443.45 441.55 440.24	 <50 	<0.5	 <0.5	 <0.5	 <0.5	  -3		
e e e e e e	457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0	17.24 16:40 13.55 14:29 16.19	440.50 441.34 444.19 443.45 441.55 440.24	-50  	 <0.5 	 <0.5 	 <0.5 	 <0.5 	 	 	
e e e e e e	457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0	17.24 16:40 13.55 14:29 16.19	440.50 441.34 444.19 443.45 441.55 440.24	-50  	 <0.5 	 <0.5 	 <0.5 	 <0.5 	 	 	
e e e	457.74 457.74 457.74 457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0 38.0 38.0	16.40 13.55 14.29 16.19 17.50	441.34 444.19 443.45 441.55 440.24	<50  	<0.5 	<0.5  		<0.5 	₫		
e e e	457.74 457.74 457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0 38.0	13.55 14:29 16.19 17:50	444.19 443.45 441.55 440.24	 							
e e e	457:74 457:74 457:74 457:74 457:74 457:74	28.0 28.0 28.0 28.0 28.0	38.0 38.0 38.0 38.0	14.29 16.19 17.50	443.45 441.55 440.24		-		 	0-05/0000000000000000000000000000000000		å skygegrygerere	
e e e	457.74 457.74 457.74 457.74 457.74	28.0 28.0 28.0 28.0	38.0 38.0 38.0	16.19 17.50	441.55 440.24			53460553553353	7 <u>2</u>			delectes are part	reconstitues and a
e e	457.74 457.74 457.74 457.74	28.0 28.0 28.0	38.0 38.0	17.50	440.24	Side de al constant de la constant a del			0.000.0		3059483344644H468354	Periodologica de la compansión de la compa	
nain canan <b>e</b> ang	457.74 457.74 457.74	28.0 28.0	38.0			65	L						
nain canan <b>e</b> ang	457.74 457.74	28.0	**************************************	15.32		- 0.5	0.6	7.4	2.1	12	- 5	80 <u>22</u> 081	
	457.74		29 N		442.42								
е	o reservation contraction	<b>ን</b> ያ ለ	38.0	16.62	441.12		0 0		_			_	
150 m. e. 190 (b. 65) 9	457.74	20.0	38.0	15.12	442.62	<del></del>			***				
www.march.com/Account/		28.0	38.0	26.66	431.08	<50	<0.5	<0.5	<0.5	<0.5	্ৰ	·	
e	457.74	28.0	38.0	17.74	440.00								***
	457.74	28.0	38.0	18.75	438.99	<50	<0.5	<0.5	<0.5	<1	⊲	0.82	<b></b>
е	457.74	28.0	38.0	17.21	440.53					+-		2.6	
e	457.74	28.0	38.0	18.25	439,49		-					2.65	**************************************
	457.74	28.0	38.0	20.69	437.05	<50.0	<0.500	0.581	0.827	4.38	<2.50	0.88	
e	457.74	28.0	38.0	22.69	435.05		-			_	—— XVIII	Cyc 152,000	
e	457.74	28.0	38.0	25.15	432.59					**			***
	457.74	28.0	38.0	25.22	432.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.8	777 <u>-</u>
6	457.74	28.0	38.0	24.70	433.04								######################################
e e	457.74	28.0	38.0	24.53	433.21	_					1		504 <u>4</u>
	457.74	28.0	38.0	19.45	438.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	***
r	457.74	28.0	38.0	18.18	439.56		-				_	80 <b>2</b> 00	
ŧ	460.07	28.0	38.0		N-4-			**					
	460.07	28.0	38.0	15.30	444.77	-			000 <b>—</b> 00	60 0 00			
000000000000000000000000000000000000000	460.07	28.0	38.0	38.62	421.45	**							**
	460.07	28.0	38.0	23.85	436.22			-			-		**
	456.97	28.5	38.5	14.13	442.84	_						<u></u>	
e	456 97	28.5	38.5	14.46	442.51			25.05507.8E5.4SE2					1984/1860 
m	t c	r 457.74 t 460.07 460.07 460.07	r 457.74 28.0 t 460.07 28.0 460.07 28.0 460.07 28.0 460.07 28.0 e 456.97 28.5	r 457.74 28.0 38.0 t 460.07 28.0 38.0 460.07 28.0 38.0 460.07 28.0 38.0 460.07 28.0 38.0 460.07 28.0 38.0  c 456.97 28.5 38.5	r 457.74 28.0 38.0 18.18 t 460.07 28.0 38.0 460.07 28.0 38.0 15.30 460.07 28.0 38.0 38.62 460.07 28.0 38.0 23.85 c 456.97 28.5 38.5 14.13	r 457.74 28.0 38.0 18.18 439.56 t 460.07 28.0 38.0 460.07 28.0 38.0 15.30 444.77 460.07 28.0 38.0 38.62 421.45 460.07 28.0 38.0 23.85 436.22 c 456.97 28.5 38.5 14.13 442.84	r 457.74 28.0 38.0 18.18 439.56 t 460.07 28.0 38.0 460.07 28.0 38.0 15.30 444.77 460.07 28.0 38.0 38.62 421.45 460.07 28.0 38.0 23.85 436.22 c 456.97 28.5 38.5 14.13 442.84	r 457.74 28.0 38.0 18.18 439.56	r 457.74 28.0 38.0 18.18 439.56	r 457.74 28.0 38.0 18.18 439.56	r 457.74 28.0 38.0 18.18 439.56	r 457.74 28.0 38.0 18.18 439.56	r 457.74 28.0 38.0 18.18 439.56

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-3 Cont.															
8/31/1995		е	456.97	28.5	38.5	17.06	439.91		-						
11/28/1995			456.97	28.5	38.5	16.27	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3		
2/22/1996		e	456.97	28.5	38.5	13.14	443.83		-		-				
5/23/1996		е	456.97	28.5	38.5	13.95	443.02					**			
8/8/1996		e	456.97	28.5	38.5	16.03	440.94	_	-					\$5,000,000,000,000,000,000,000,000,000,0	
11/7/1996			456.97	28.5	38.5	17.26	439.71	<50	<0.5	0.9	<0.5	1.5	<3		
3/27/1997		1 1 1 e 1 1 1 1	456.97	28.5	38.5	14.85	442.12	3 <u>-</u>	_		<u></u>	<u></u>			
5/19/1997	***	6	456.97	28.5	38.5	16.40	440.57								12676.6555
5/18/1998		e	456.97	28.5	38.5	14.66	442.31		-	- 44			6		158 <u>71</u> 58
11/2/1998	***	mark 1997 and marked transmission of the specified of the	456.97	28.5	38.5	25.85	431.12	<1,000	<10	<10	<10	<10	1,700		1200222
6/4/1999	60 To 60	e e e e	456.97	28.5	38.5	17.35	439.62	-							96) <u>10</u> 53
11/11/1999	P		456.97	28.5	38.5	18.58	438.39	<50	<0.5	<0.5	<0.5	<1	<3	0.79	35544555
6/20/2000		e	456.97	28.5	38.5	17.03	439.94		-				Ī	2.8	
8/29/2000		e	456.97	28.5	38.5	18.25	438.72				e in			3,39	
11/29/2000			456.97	28.5	38.5	20.27	436,70	<50.0	<0.500	<0.500	1,08	3.34	<2.50	0.67	
5/2/2001		e	456.97	28.5	38.5	22.33	434.64								
8/15/2001		e	456.97	28,5	38.5	25.03	431.94		-	-					
10/5/2001	P	DOWN AND SELECTION OF THE SELECTION OF T	456.97	28.5	38.5	25.17	431.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.79	
1/21/2002		e	456.97	28.5	38.5	24.79	432.18	_			<u>-</u>				
4/26/2002		e	456.97	28.5	38.5	24.27	432.70						<u></u>		
10/7/2002			456.97	28.5	38.5	20.20	436.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	907250
05/01/2003	**	c, e	456.97	28.5	38.5	18.27	438.70						780 (250 (190 (190 (190 ) 250)) 	760 760 766 	
10/03/2003	Р	d d	456.97	28.5	38.5	20.07	436.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	7.3
04/06/2004		e	459.32	28.5	38.5	17.24	442.08						261.023.020,020,023.023 	1000016,152	1990 (550)
10/28/2004	P		459.32	28.5	38.5	19.38	439.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1	7.3
04/13/2005			459.32	28.5	38.5	16.02	443.30								
10/27/2005		t	459.32	28.5	38.5		-				-		-	_	//( <b></b> -
04/12/2006	**		459.32	28.5	38.5	15.12	444.20								
10/31/2006	P		459.32	28.5	38.5	19.14	440.18	400	5.5	<0.50	5.5	9.6	22	S. 678 h Tri Associal Farmania	7.64
4/19/2007			459.32	28.5	38.5	23.07	436.25								

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			тос	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msi)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-4															
3/23/1995	_	7.000	456.55	21.0	27.0	15.39	441.16	210	2.1	0.6	0.8	2.1			
5/31/1995	*-		456.55	21.0	27.0	15.32	441.23	190	1.6	<0.5	0.7	0.9			
8/31/1995			456.55	21.0	27.0	17.86	438.69	160	1.2	0.7	<0.5	<2	-3	-	officiaries control
11/28/1995		**************************************	456.55	21.0	27.0	17.18	439.37	150	0.7	<0.5	0.7	1.4	<3		455000000
2/22/1996	2 10 22		456.55	21.0	27.0	14.80	441.75	100	<0.5	<0.5	<0.6	0.8	-3		
5/23/1996		777 77 77 77 77 77 77 77 77 77 77 77 77	456.55	21.0	27.0	14.43	442.12	86	<0.5	<0.5	<0.5	<0.7	<3		
8/8/1996		Service and the service	456.55	21.0	27.0	16.80	439.75	98	<0.5	<0.5	<0.5	1.3	-3	_	
11/7/1996			456.55	21.0	27.0	17.90	438.65	140	<0.5	<0.5	<0.9	1.3	<3		
3/27/1997			456.55	21.0	27.0	15.22	441,33	<50	1.1	<0.5	<0.5	1.6	-3		80 <u>73</u> 77
5/19/1997			456.55	21.0	27.0	16.98	439.57	62	<0.5	<0.5	<0.5	0.6	<3		
5/18/1998	0 m m		456.55	21.0	27.0	14.99	441.56	<50	<0.5	<0.5	<0.5	<0.5	64	22	
11/2/1998		THE ALTERNAL WAS ARRANGED A PROPERTY AND A PROPERTY	456.55	21.0	27.0	25.29	431.26	74	<0.5	<0.5	<0.5	<0.5	96		*** ***
6/4/1999	P		456.55	21.0	27.0	17.95	438.60	100	<0.5	<0.5	<0.5	<0.5	38		
11/11/1999	P		456.55	21.0	27.0	19.25	437.30	88	<0.5	<0.5	<0.5	<1	10	0.77	
6/20/2000	P		456.55	21.0	27.0	17.79	438.76	<50.0	<0.500	<0.500	<0.500	<0.500	82.4	1,3	
6/20/2000		q	456.55	21.0	27.0			<50.0	<0.500	<0.500	<0.500	<0.500	62.3		***
8/29/2000	P		456.55	21.0	27.0	18.90	437.65	56	<0.500	<0.500	<0.500	<0.500	47.9	0.97	
11/29/2000	P	S	456.55	21.0	27.0	20.50	436.05	<50.0	<0.500	<0.500	<0.500	<0.500	9.88/10.4	0.59	
<i>5/2/</i> 2001	P	q, s	456.55	21.0	27.0	22.65	433.90	<50.0	<0.500	<0.500	<0.500	<0.500	61.1/70.9	0.74	200/10000000000000000000000000000000000
5/2/2001		S	456.55	21.0	27.0			<50.0	<0.500	<0.500	<0.500	<0.500	59.4/68.4	**	
8/15/2001	9 9	f	456.55	21.0	27.0	-		-	2.5	<u>.</u>			-	<u></u>	
10/5/2001		f	456.55	21.0	27.0										
1/21/2002		f	456.55	21.0	27.0	-			42 = 40	_		i	<b></b>	<u>.</u>	
4/26/2002	P _		456.55	21.0	27.0	20.15	436.40	110	<0.50	<0.50	<0.50	<0.50	150	0.21	~-
10/7/2002	P	a	456.55	21,0	27.0	20.76	435.79	96	<0.50	<0.50	0.54	<0.50	260	1.0	)
05/01/2003	P	c	456.55	21.0	27.0	19.67	436.88	120	1.3	<0.50	<0.50	<0.50	86	1.7	
10/03/2003	P	d	456.55	21.0	27.0	20.23	436.32	<50	<0.50	<0.50	<0.50	<0.50	22	13.5	6.8
04/06/2004	P		458.88	21.0	27.0	18.13	440.75	96	<0.50	<0.50	<0.50	<0.50	17	1.6	6.8
10/28/2004	P		458.88	21.0	27.0	20.02	438.86	<50	<0.50	<0.50	<0.50	<0.50	4.5	1.2	6.7
04/13/2005	P		458.88	21.0	27.0	16.68	442.20	<50	<0.50	<0.50	<0.50	<0.50	2.8	8.0	6.7
10/27/2005	P	and the second second second	458.88	21.0	27.0	19.05	439.83	400	14	<0.50	11	1.8	22	1.0	6.9

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		ро	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-4 Cont.	Avenue Attention											-			
04/12/2006	P		458.88	21.0	27.0	15.47	443.41	100	<0.50	<0.50	<0.50	<0.50	1.9	1.6	7.2
10/31/2006	Р		458.88	21.0	27.0	19.67	439.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50		7.63
4/19/2007	NP		458.88	21.0	27.0	22.72	436.16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.92	7.36
MW-5		TANAMIII WALLA						**************************************	110000000000000000000000000000000000000		992000000000000000000000000000000000000	***************************************	100000000000000000000000000000000000000		20111122334
3/23/1995			455.84	43.0	63.0	13.97	441.87	68	4.2	3.4	2.3	12	<u>-</u>		
5/31/1995		g	455.84	43.0	63.0		<del></del>								
8/31/1995		g	455.84	43.0	63.0		-	<b>—</b>		-		-	-		_
11/28/1995			455.84	43.0	63.0	16.46	439.38	960	41	24	38	210	<5		
2/22/1996	-	f	455.84	43.0	63.0	13.34	442.50	-		-	-	-			
5/23/1996			455.84	43.0	63.0	14.36	441.48	7,100	440	180	270	1,700	<50	**	
8/8/1996		f	455.84	43.0	63.0	16.38	439.46		-	-	-		-		
11/7/1996			455.84	43.0	63.0	17.26	438.58	5,600	230	86	210	1,100	<80		**
3/27/1997		f	455.84	43.0	63.0	15.95	439.89		-	-	-	-	<del>-</del>		***************************************
5/19/1997	***		455.84	43.0	63.0	16.64	439.20	7,600	480	140	400	1,200	<40		
5/18/1998			455.84	43.0	63.0	14,75	441.09	990	46	13	45	180	4		
11/2/1998			455.84	43.0	63.0	27.83	428.01	14,000	690	140	550	2,200	100		
6/4/1999	P		455.84	43.0	63.0	17.47	438.37	8,300	690	370	90	440	1,400	-	771 TOST
11/11/1999	P		455.84	43.0	63.0	18.80	437.04	18,000	900	190	1,100	3,200	72	0.86	
6/20/2000	P		455.84	43.0	63.0	17.14	438.70	10,200	618	122	832	2,020	<50.0	1.6	
8/29/2000	P		455.84	43.0	63.0	18.60	437.24	12,300	436	166	711	2,120	517	0.79	
11/29/2000	P	S	455.84	43.0	63.0	20.57	435.27	26,000	491	149	1,090	3,810	671/<20.0	0.51	
5/2/2001		k			**						***				<del></del>
MW-6										,					
3/23/1995		to an element of the co	454.93	48.0	68.0	13.38	441.55	<50	1.5	<0.5	<0.5	0.9	<u></u>		
5/31/1995		TOWN OF THE COMMENT O	454.93	48.0	68.0	13.96	440.97	<50	<0.5	<0.5	<0.5	<0.5			*-
8/31/1995			454.93	48.0	68.0	16.71	438.22	150	9	1.8	4	12	<b>a</b>	_	
11/28/1995	**		454.93	48.0	68.0	15.65	439.28	<50	0.6	<0.5	<0.5	0.8	<3		-
2/22/1996		A 60 0 10 10 00 00 00 00	454.93	48.0	68.0	12.53	442.40	<50	1.9	<0.5	0.8	2.1	Ø	8 <del>(</del> 8)	711, <b>10 (1</b> )
5/23/1996	pa.mp		454.93	48.0	68.0	13.24	441.69	<50	<0.5	<0.5	<0.5	<0.5	ও		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Namele Date   PNP   Comments   (feet mst)   (ft bgs)   (feet mst)   (feet mst)   THg   Benzee   Toluen   Benzee   Xylenes   MTBE   (mg MW-6 Cont.				g/L)	itions in (µ	Concentra			Water Level		Bottom of	Top of				
NW-6 Cont.		DO		Total	Ethyl-			GRO/	Elevation	DTW	Screen	Screen	TOC			Well and
88/1996 — 454.93 48.0 68.0 16.65 438.28 110 5.3 1.3 3.1 6.6 <1 11/7/1996 — 454.93 48.0 68.0 16.65 438.28 110 5.3 1.3 3.1 6.6 <1 3/27/1997 — 454.93 48.0 68.0 14.25 440.68 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3 <1 2.3	) pH	(mg/L)	MTBE	Xylenes	Benzene	Toluene	Benzene	TPHg	(feet msl)	(feet bgs)	(ft bgs)	(ft bgs)	(feet msl)	Comments	P/NP	Sample Date
11/7/1996							-									MW-6 Cont.
3/27/1997 454.93 48.0 68.0 14.25 440.68 <50 2.3 <0.5 0.9 3.5 4 5/19/1997 454.93 48.0 68.0 15.87 439.06 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	s ossensees Col <del>u</del> stes	1000 mg/conces	B	0.5	<0.5	<0.5	0.5	<50	438.28	16.65	68.0	48.0	454.93			8/8/1996
5/19/1997          454.93         48.0         68.0         15.87         439.06         <50			⊲	6.6	3.1	1.3	5.3	110	438.28	16.65	68.0	48.0	454.93			11/7/1996
5/18/1998          454.93         48.0         68.0         14.00         440.93         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5			4	3.5	0.9	<0.5	2.3	<50	440.68	14.25	68.0	48.0	454.93	0.0000000000000000000000000000000000000	-	3/27/1997
11/2/1998		***	<3	<0.5	<0.5	<0.5	<0.5	<50	439.06	15.87	68.0	48.0	454.93			5/19/1997
6/4/1999 P 454.93 48.0 68.0 16.68 438.25 310 41 33.8 11 19 33  11/11/1999 P 454.93 48.0 68.0 16.12 438.81 <50 0.5 <0.5 <0.5 <0.5 <1 <3 0.5  6/20/2000 P 454.93 48.0 68.0 16.63 438.30 <50.0 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500 <0.500		150 1 <u>5</u> 0 101	-3	<0.5	<0.5	<0.5	<0.5	<50	440.93	14.00	68.0	48.0	454.93			5/18/1998
11/11/1999		**	3	<0.5	<0.5	<0.5	1.2	<50	429.98	24.95	68.0	48.0	454.93			11/2/1998
6/20/2000 P			33	19	11	3.8	41	310	438.25	16.68	68.0	48.0	454.93	0.00 (Sec. 0.00 (Sec. 0.00)	P	6/4/1999
8/29/2000          q         454.93         48.0         68.0           <50.0         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0.500         <0	7 # KGESS UT (1943.8)	0.92	3	<1	<0.5	<0.5	0.5	<50	438.81	16.12	68.0	48.0	454.93		P	11/11/1999
8/29/2000         P         454.93         48.0         68.0         17.91         437.02         <50.0         <0.500         <0.500         <0.500         <2.50         1.6           11/29/2000         P         454.93         48.0         68.0         20.30         434.63         <50.0		1.9	17.3	<0.500	<0.500	<0.500	<0.500	<50.0	438.30	16.63	68.0	48.0	454.93		P	6/20/2000
11/29/2000         P         454.93         48.0         68.0         20.30         434.63         <50.0         <0.500         <0.500         <0.500         1.03         <2.50         0.7           5/2/2001         P         s         454.93         48.0         68.0         22.20         432.73         3,230         1,300         33.6         89.4         136         1,810/2,310         0.5           8/15/2001         P         s         454.93         48.0         68.0         27.95         426.98         <50			<2.50	<0.500	<0.500	<0.500	<0.500	<50.0			68.0	48.0	454.93	q		8/29/2000
5/2/2001         P         s         454.93         48.0         68.0         22.20         432.73         3,230         1,300         33.6         89.4         136         1,810/2,310         0.5           8/15/2001         P         s         454.93         48.0         68.0         27.95         426.98         <50		1.67	<2.50	<0.500	<0.500	0.551	<0.500	<50.0	437.02	17.91	68.0	48.0	454.93		P	8/29/2000
8/15/2001         P         s         454.93         48.0         68.0         27.95         426.98         <50         <0.50         <0.50         <0.50         21/25         0.6           10/5/2001         P         454.93         48.0         68.0         28.05         426.88         <50		0.79	<2.50	1.03	<0.500	<0.500	<0.500	<50.0	434.63	20.30	68.0	48.0	454.93		P	11/29/2000
10/5/2001         P         454.93         48.0         68.0         28.05         426.88         <50         <0.50         <0.50         <0.50         <2.5         0.8           1/21/2002         P         454.93         48.0         68.0         26.81         428.12         <50		0.95	1,810/2,310	136	89.4	33.6	1,300	3,230	432.73	22.20	68.0	48.0	454.93	S	P	<i>5/2/</i> 2001
1/21/2002         P         454.93         48.0         68.0         26.81         428.12         <50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <		0.63	21/25	<0.50	<0.50	<0.50	<0.50	<50	426.98	27.95	68.0	48.0	454.93	s	P	8/15/2001
4/26/2002       P       454.93       48.0       68.0       26.27       428.66       <50       <0.50       <0.50       <0.50       <0.50       17       0.7         10/7/2002       P       a       454.93       48.0       68.0       20.05       434.88       60       13       1.7       1.7       3.5       8       2.1         05/01/2003       P       c       454.93       48.0       68.0       17.62       437.31       <50	107527000	0.85	<2.5	<0.50	<0.50	<0.50	<0.50	<50	426.88	28.05	68.0	48.0	454.93		P	10/5/2001
10/7/2002         P         a         454.93         48.0         68.0         20.05         434.88         60         13         1.7         1.7         3.5         8         2.9           05/01/2003         P         c         454.93         48.0         68.0         17.62         437.31         <50		0.91	<5.0	<0.50	<0.50	<0.50	<0.50	<50	428.12	26.81	68.0	48.0	454.93		P	1/21/2002
05/01/2003         P         c         454.93         48.0         68.0         17.62         437.31         <50         5.4         <0.50         0.63         13         12         1.6           10/03/2003         P         d         454.93         48.0         68.0         19.62         435.31         80         2.6         <2.5	798570000	0.75	17	<0.50	<0.50	<0.50	<0.50	<50	428.66	26.27	68.0	48.0	454.93		P	4/26/2002
10/03/2003         P         d         454.93         48.0         68.0         19.62         435.31         80         2.6         <2.5         <2.5         <2.5         120         5.           04/06/2004         P         457.24         48.0         68.0         16.88         440.36         <2.500		2.8	8	3.5	1.7	1.7	13	60	434.88	20.05	68.0	48.0	454.93	a	P	10/7/2002
04/06/2004         P         457.24         48.0         68.0         16.88         440.36         <2.500         <25         <25         <25         <25         1,700         4.           10/28/2004         P         457.24         48.0         68.0         19.20         438.04         3,200         <25	122	1.6	12	1.3	0.63	<0.50	5.4	<50	437.31	17.62	68.0	48.0	454.93	C	P	05/01/2003
10/28/2004 P 457.24 48.0 68.0 19.20 438.04 3,200 <25 <25 <25 <25 3,100 6.0	6.9	5.1	120	<2.5	<2.5	<2.5	2.6	80	435.31	19.62	68.0	48.0	454.93	d	P	10/03/2003
3,100 0.	7.0	4.1	1,700	<25	<25	<25	<25	<2,500	440.36	16.88	68.0	48.0	457.24		P	04/06/2004
0/112/2005 P /5701 10.0 /500	6.9	6.8	3,100	<25	<25	<25	<25	3,200	438.04	19.20	68.0	48.0	457.24		P	10/28/2004
50   457/24   48.0   08.0   15.15   442.09   55,000   <50   <50   3,900   3.00	7.0	3.9	3,900	<50	<50	<50	<50	<5,000	442.09	15.15	68.0	48.0	457.24	and the second of	P	04/13/2005
NEW AND AND AND ADDRESS AND AD	7.0	3.15	2,900	<50	<50	<50	<50	<5,000	439,12	18.12	68.0	48.0	457.24		P	NEW AND THE COLUMN AN
04/12/2006 P 457.24 48.0 68.0 15.32 441.92 <5,000 <50 <50 <50 <50 3,400 4.3	7.6	4.3	3,400	<50	<50	<50	<50	<5,000	441.92	15.32	68.0	48.0	457.24		P	04/12/2006
10/31/2006 P u, v 457.24 48.0 68.0 18.85 438.39 2,700 <25 <25 <25 <25 3,400	10.36		3,400	<25	<25	<25	<25	2,700	438.39	18.85	68.0	48.0	457.24	u, v	P	10/31/2006
4/19/2007 P v 457.24 48.0 68.0 22.25 434.99 970 <25 <25 <25 <25 2,200 5.5	10.52	5.54	2,200	<25	<25	<25	<25	970	434.99	22.25	68.0	48.0	457.24	V	P	4/19/2007
MW-7																MW-7
3/23/1995 - 454.92 48.0 68.0 13.29 441.63 <50 <0.5 <0.5 <0.5	100000000000000000000000000000000000000	<u></u>		<0.5	<0.5	<0.5	<0.5	<50	441.63	13.29	68.0	48.0	454.92			3/23/1995
5/31/1905				(94)7400000000000000000000000000000000000	50000500000050	Siring and property.	317/51/47/25/25/2010		ABANANCA ANG ANG ANG ANG	1000.0225,000.000055	EMBELLAS DALSE I DA LIGHT		454.92			5/31/1995

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)	· · · · · · · · · · · · · · · · · · ·		
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/	-		Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-7 Cont.															
8/31/1995			454.92	48.0	68.0	16.53	438.39	<50	<0.5	<0.5	<0.5	1.2	3	201 march 1999	erroving e
11/28/1995			454.92	48.0	68.0	15.50	439.42	<50	<0.5	<0.5	<0.5	<0.5	<3		
2/22/1996	-		454.92	48.0	68.0	12.30	442.62	<50	<0.5	<0.5	<0.5	<0.5	<3	_	70277037
5/23/1996			454.92	48.0	68.0	13.02	441.90	<50	<0.5	<0.5	<0.5	<0.5	⋖3		
8/8/1996		m	454.92	48.0	68.0	0 - 2 <u></u> 2 - 3	<b></b>				0 (00 <u>100</u> 0			200 200 100 100 100 100 100 100 100 100	0891 <u>77</u> 00
11/7/1996		Tarini restantivi a ali amena restanti a antima a a amena	454.92	48.0	68.0	16.50	438.42	<50	<0.5	<0.5	<0.5	0.8	<3		**
3/27/1997	500001-0000		454.92	48,0	68.0	14.22	440.70	<50	<0.5	<0.5	<0.5	<0.5	ব		
5/19/1997			454.92	48.0	68.0	15.74	439.18	<50	<0.5	<0.5	<0.5	<0.5	<3		***********
5/18/1998	(4 () <b></b> , ()		454.92	48.0	68.0	13.82	441.10	<50	<0.5	<0.5	<0.5	<0.5	্ব		
11/2/1998			454.92	48.0	68.0	24.80	430.12	<50	<0.5	<0.5	<0.5	<0.5	4		
6/4/1999	P	a constitution of the	454.92	48.0	68.0	16.55	438.37	<50	<0.5	<0.5	<0.5	<0.5	⋖	-	
11/11/1999	P		454.92	48.0	68.0	18.02	436.90	<50	<0.5	<0.5	<0.5	<1	⊲	1.03	
6/20/2000	P		454.92	48.0	68.0	16.50	438.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	13	
8/29/2000	P	Provide the second seco	454.92	48.0	68.0	17.80	437.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.67	
11/29/2000	P		454.92	48.0	68.0	19.61	435.31	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.51	100010001
5/2/2001	P	S	454.92	48.0	68.0	22.05	432.87	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/2.66	0.9	
8/15/2001	P		454.92	48.0	68.0	27.55	427.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.84	
10/5/2001	P	- C01/A/A-9-05, ENECEPO (1900-09/A JACESSO /ACCOUNTACHMENSON CONS.	454.92	48.0	68.0	27.59	427.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.62	
1/21/2002	P	S	454.92	48.0	68.0	26.50	428.42	<50	<0.50	<0.50	<0.50	<0.50	15/21	0.65	77 <u></u>
4/26/2002	P		454.92	48.0	68.0	26.22	428.70	<50	<0.50	<0.50	<0.50	<0.50	18	0.61	1011003000
10/7/2002			454.92	48.0	68.0	20.04	434.88	<50	1.2	<0.50	< 0.50	0.77	41	4.8	
05/01/2003	P	c	454.92	48.0	68.0	17.47	437.45	<50	<0.50	<0.50	<0.50	0.5	43	2.7	
10/03/2003	Р	ď	454.92	48.0	68.0	19.55	435.37	<50	<1.0	<1.0	<1.0	<1.0	49	5.7	7.1
04/06/2004	P		457.17	48.0	68.0	16.60	440.57	<50	<0.50	<0.50	<0.50	0.75	0.76	0.7	7.0
10/28/2004	P		457.17	48.0	68.0	19.17	438.00	<50	<0.50	<0.50	<0.50	<0.50	14	6.7	6.9
04/13/2005	P		457.17	48.0	68.0	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	1. <i>7</i>	2.3	6.9
10/27/2005	P		457.17	48.0	68.0	17.38	439.79	<50	<0.50	<0.50	<0.50	<0.50	2.3	2.16	7.0
04/12/2006	P	no omercia de la composició de la compos	457.17	48.0	68.0	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	1,1	3.0	7.2
10/31/2006	P		457.17	48.0	68.0	18.74	438.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50		7.55
4/19/2007	P		457.17	48.0	68.0	22.11	435.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.37	7.60

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	ĺ
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-8															
3/23/1995		e	456.97	47.0	67.0	11.55	445.42				-				
5/31/1995		e	456.97	47.0	67.0	12.37	444.60	l							
8/31/1995		e	456.97	47.0	67.0	15.68	441.29	-				<del></del>		50100900000	
11/28/1995		35.5(1.60)37.5(1100)000 9C310(3111710)0000066/95/17/2000 3000011	456.97	47.0	67.0	14.15	442.82	<50	<0.5	<0.5	<0.5	<0.5	⋖		
2/22/1996	8 (6) <u>1</u> 0 (6)	e	456.97	47.0	67.0	10.97	446.00	-		-	<u></u>		20 major 2 <u>3 major</u> 20 major 2		<u>-</u>
5/23/1996		e	456.97	47.0	67.0	11.90	445.07					**			
8/8/1996		e de en de como	456.97	47.0	67.0	13.85	443.12	3 <u></u>	3.2				<u> </u>	000 <u>000</u> 000	222
11/7/1996	***	alleri e e e e e e e e e e e e e e e e e e	456.97	47.0	67.0	15.08	441.89	<50	<0.5	<0.5	<0.5	<0.5	<3		
3/27/1997		е по	456.97	47.0	67.0	12.96	444.01	-	-				<u></u>	6 <u>2</u> 6	-20
5/19/1997		е	456.97	47.0	67.0	14.35	442.62				***				
5/18/1998	-	e en es en Communicación	456.97	47.0	67.0	12.97	444.00		6 - 6		·				S) <u>11</u> 89
11/2/1998		and the second s	456.97	47.0	67.0	26.01	430.96	<50	<0.5	<0.5	<0.5	<0.5	<3		
6/4/1999	-	u o 10 00 <b>e</b> . 20 00 00	456.97	47.0	67.0	15.53	441.44						-		
11/11/1999	P	The second secon	456.97	47.0	67.0	16.67	440.30	<50	<0.5	<0.5	<0.5	<l< td=""><td>ও</td><td>1.01</td><td>*-</td></l<>	ও	1.01	*-
6/20/2000		e	456.97	47,0	67.0	15.29	441.68	_	-					2,4	
8/29/2000		c	456.97	47.0	67.0	16.59	440.38							3.37	
11/29/2000	P		456.97	47.0	67.0	19.80	437.17	<50.0	<0.500	<0.500	<0.500	0.772	<2.50	1.35	
5/2/2001	**	<b>e</b>	456.97	47.0	67.0	22.12	434.85	**							
8/15/2001		e	456.97	47.0	67.0	27.63	429.34	-	-	- 10 <u>- 1</u> 1 (6	——————————————————————————————————————	<u></u>	<del></del>		120700-0050 
10/5/2001	P		456.97	47.0	67.0	27.65	429.32	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.07	
1/21/2002	9 9-	encomment encomment	456.97	47.0	67.0	26.73	430.24		-		(i	# 9 <u>-</u> 4-31	<u></u>		
4/26/2002		e	456.97	47.0	67.0	26.39	430.58				**				eravosassav ***
10/7/2002			456.97	47.0	67.0	18.43	438.54	<50	<0.50	<0.50	<0.50	0.86	<0.50	4.2	33 <u>22</u> 01
05/01/2003		r	456.97	47.0	67.0	16.47	440.50		**			**			
10/27/2005	-		456.97	47.0	67.0	17.14	439.83			-			-	0 <u>—</u>	(0 <b></b> ()
04/12/2006			456.97	47.0	67.0	14.08	442.89					~#			
10/31/2006		and the second second second	456.97	47.0	67.0	18.12	438,85	s	-	-				-	
4/19/2007			456.97	47.0	67.0	22.39	434.58								
MW-9															
3/23/1995		e	456.18	48.0	68.0	13.18	443.00	-		Day of the second	48.180 <b></b> 10.380			J. 22 31	_
			Company of the Compan				· · · · · · · · · · · · · · · · · · ·		r e e						

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-9 Cont.															
5/31/1995		e	456.18	48.0	68.0	12,66	443.52	-	- A 15-				-		
8/31/1995		e	456.18	48.0	68.0	14.40	441.78								
11/28/1995			456.18	48.0	68.0	14.26	441.92	<50	<0.5	<0.5	<0.5	<0.5	-3		
2/22/1996		e	456.18	48.0	68.0	12.05	444.13						•••		**
5/23/1996		e	456.18	48.0	68.0	12.07	444.11	-	=		-			00000000000000000000000000000000000000	77
8/8/1996		e	456.18	48.0	68.0	14.12	442.06	-							*-
11/7/1996			456.18	48.0	68.0	15.42	440.76	<50	<0.5	<0.5	<0.5	<0.5	-3	ofter of terrore	Station Community
3/27/1997		G.	456.18	48.0	68.0	13.01	443.17				***			#804194844459.	
5/19/1997		е	456.18	48.0	68.0	14.60	441.58	-	-		20 10 10 10	00 10 <u></u> 01 10			
5/18/1998		e	456.18	48.0	68.0	12.60	443.58		***		m#				
11/2/1998	0.00	same de <b>e</b> grecours	456.18	48.0	68.0	25.08	431.10		-					4 <u>4</u> 6	_
6/4/1999	P		456.18	48.0	68.0	15.87	440.31	<50	<0.5	<0.5	<0.5	<0.5	<3		75076EN
11/11/1999	P		456.18	48.0	68.0	17.02	439.16	<50	<0.5	<0.5	<0.5	<1	ර	0.96	// <b></b> //
6/20/2000		e	456.18	48.0	68.0	15.54	440.64							2.1	
8/29/2000		e	456.18	48.0	68.0	16.81	439.37		-					2.59	
11/29/2000	P		456.18	48.0	68.0	18.81	437.37	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.81	***
5/2/2001		e	456.18	48.0	68.0	22.09	434.09	-		-				-	
8/15/2001	*-	C	456.18	48.0	68.0	27.59	428.59						-		
10/5/2001		q	456.18	48.0	68.0	27.63	428.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	_	00000000000000000000000000000000000000
10/5/2001	P	15-2-2-3-1-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	456.18	48.0	68.0	27.63	428.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.93	
1/21/2002		e	456.18	48.0	68.0	26.77	429.41	_		_	<u> </u>			***************************************	100997145.001
4/26/2002	**	e e	456.18	48.0	68.0	26.41	429.77								
10/7/2002	P		456.18	48.0	68.0	18.85	437.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	784 <u>224</u> 070
05/01/2003		c, e	456.18	48.0	68.0	17.84	438.34					**			
10/03/2003	P	d	456.18	48.0	68.0	18.69	437.49	<50	1.1	0.57	<0.50	<0.50	<0.50	4.9	6.8
04/06/2004		e	458.55	48.0	68.0	16.08	442.47		**				<del></del>		
10/28/2004	P		458.55	48.0	68.0	18.35	440.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	6.9
04/13/2005		e	458.55	48.0	68.0	14.09	444.46						<del></del>		
10/27/2005	P		458.55	48.0	68.0	17.41	441.14	<50	0.51	<0.50	<0.50	<0.50	1.4	2.56	7.0
04/12/2006			458.55	48.0	68.0	14.18	444.37							**	
10/31/2006	P		458.55	48.0	68.0	17.97	440.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	•	7.46

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		ро	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-9 Cont.															
4/19/2007			458.55	48.0	68.0	22.37	436.18								
MW-10									- Committee of the Comm						20031100000
3/23/1995	<u></u>	e	456.85	32.0	52.0	14.86	441.99							500 <u>25</u> 000	
5/31/1995		e	456.85	32.0	52.0	15.63	441.22							(9/8/88/21/19)): 	92227383
8/31/1995	-	e	456.85	32.0	52.0	14.40	442,45		100 02	-	_			_	-
11/28/1995			456.85	32.0	52.0	17.24	439.61	<50	<0.5	<0.5	<0.5	<0.5	<3		\$ 42.20 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N
2/22/1996		e e	456.85	32.0	52.0	14.30	442.55		_					2.00	S
5/23/1996		e	456.85	32.0	52.0	14.93	441.92								
8/8/1996		e	456.85	32,0	52,0	17.20	439.65		-		G		_	( <b></b>	1(3 <u>-2</u> )).
11/7/1996			456.85	32.0	52.0	18.25	438.60	<50	<0.5	<0.5	<0.5	<0.5	<3		
3/27/1997		e	456.85	32.0	52.0	15.77	441.08						-	-	(), <b>-1</b> /()
5/19/1997		e	456.85	32.0	52.0	17.38	439.47								***
5/18/1998		e	456.85	32.0	52.0	15.47	441.38		-				-		80.77
11/2/1998			456.85	32.0	52.0	26.94	429.91	<50	<0.5	<0.5	<0.5	<0.5	<3		3256733575
6/4/1999	-	e	456.85	32.0	52.0	17.19	439.66	_		-					
11/11/1999	P	244400044004400400000440040000000000000	456.85	32.0	52.0	19.35	437.50	<50	<0.5	<0.5	<0.5	<1	<3	0.68	
6/20/2000	<u>-2</u>	e como de e	456.85	32.0	52.0	17.92	438.93		_			<del></del>	_	2.9	2201.231
8/29/2000		e	456.85	32.0	52.0	19.15	437.70							1.54	45000500
11/29/2000	P		456.85	32.0	52.0	21.30	435,55	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.95	<u>-</u> -
5/2/2001		e	456.85	32.0	52.0	29.95	426.90			<del></del>					
8/15/2001		e	456.85	32.0	52.0	30.74	426.11			- 8				<u> </u>	0)_20
10/5/2001	P		456.85	32.0	52.0	30.95	425.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.89	35000500 
1/21/2002		e	456.85	32.0	52.0	28.97	427.88			-	-		8 8 <b>-</b> 8 8		8.44
4/26/2002		e	456.85	32.0	52.0	28.50	428.35								
10/7/2002	<u></u>		456.85	32.0	52.0	21.15	435.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	-
05/01/2003	**	c, e	456.85	32.0	52.0	18.90	437.95								
10/03/2003	P	d	456.85	32.0	52.0	20.64	436.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	7.1
04/06/2004		e	459.20	32.0	52.0	17.99	441.21							•••	
10/28/2004	P		459.20	32.0	52.0	20.27	438.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	7.1
04/13/2005		e e	459.20	32.0	52.0	16.25	442.95								

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

	]			Top of	Bottom of	VIII.	Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		ро	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-10 Cont.															
10/27/2005	P		459.20	32.0	52.0	19.03	440.17	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.38	7.2
04/12/2006			459.20	32.0	52.0	14.95	444.25								
10/31/2006	P		459.20	32.0	52.0	20.20	439.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	rate rose rose	7.30
4/19/2007			459.20	32.0	52.0	24.00	435.20								7(88,4NS) 
MW-11															
3/23/1995			455.07	38.0	45.0	17.34	437.73		-		_		-	_	
5/31/1995		The Total Control of Transport	455.07	38.0	45.0	16.68	438.39	<50	<0.5	<0.5	<0.5	<0.5			\$250,000 **-
8/31/1995		h	455.07	38.0	45.0	20.20	434.87	_						-	
11/28/1995		77	455.07	38.0	45.0	17.80	437.27	<50	<0.5	<0.5	<0.5	<0.5	∢3	***	666666
2/22/1996		h	455.07	38.0	45.0	15.97	439.10	-				<u>-</u> -	<u></u> -	1970 197	
5/23/1996		,6:10-49-4,00-61 1-100-09-19-9-4-2-10-09-2-2-2-10-09-2-2-2-10-09-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	455.07	38.0	45.0	15.50	439.57	<50	<0.5	<0.5	<0.5	<0.5	⋖3		4.81531.832
8/8/1996	<u></u>	h	455.07	38.0	45.0	17.77	437.30	30 Sa						160 <u>II</u> 16	535355
11/7/1996		12.30 (1.50 Mars 20.50	455.07	38.0	45.0	17,45	437.62	<50	<0.5	<0.5	<0.5	<0.5	<3	***	
3/27/1997		h h	455.07	38.0	45.0	15.77	439.30	-	- 10 <u>-</u> 10 1					/	100
5/19/1997			455.07	38.0	45.0	16.80	438.27	<50	1.1	4.5	<0.5	2.2	<3		
5/18/1998		0.0000000000000000000000000000000000000	455.07	38.0	45.0	15.38	439.69	<50	<0.5	<0.5	<0.5	<0.5	্র	6 <b>2</b> 6	
11/2/1998		Andrew Andrew	455.07	38.0	45.0	24.15	430.92	<50	<0.5	<0.5	<0.5	<0.5	<3	70000000000000000000000000000000000000	
6/4/1999	P		455.07	38.0	45.0	18.39	436.68	<50	<0.5	<0.5	<0.5	<0.5	ය	is	
11/11/1999	P		455.07	38.0	45.0	18.62	436.45	<50	<0.5	<0.5	<0.5	<1	<3	1.01	
6/20/2000	P		455.07	38.0	45.0	17.82	437.25	<50.0	0.631	<0.500	<0.500	<0.500	<2.50	4.1	( )
8/29/2000		h	455.07	38.0	45.0	19.50	435.57			***			**		
11/29/2000	P		455.07	38.0	45.0	20.60	434.47	<50.0	<0.500	<0.500	<0.500	1.63	<2.50	0.97	
5/2/2001	P		455.07	38.0	45.0	22.42	432.65	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1,04	**
8/15/2001		h	455.07	38.0	45.0	27.41	427.66		-	_			<u></u>		
10/5/2001	P	THE RESERVE OF THE PERSON OF T	455.07	38.0	45.0	27.59	427.48	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.05	1.0001.00
1/21/2002		e in sie e <b>h</b> oor et d	455.07	38.0	45.0	26.75	428.32	<u> </u>							75.ZZ
4/26/2002	P		455.07	38.0	45.0	26.50	428.57	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.47	18463600
10/7/2002			455.07	38.0	45.0	20.79	434:28	<50	<0.50	<0.50	<0.50	<0.50	1.0	1.4	(i) <u>1</u>
05/01/2003	P	C	455.07	38.0	45.0	20.55	434.52	<50	<0.50	<0.50	<0.50	<0.50	1.5	3.2	
10/03/2003	P	d	455.07	38.0	45.0	20.58	434,49	<50	<0.50	<0.50	<0.50	<0.50	3.1	3.0	7.1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-11 Cont.															
04/06/2004	P		457.40	38.0	45.0	17.52	439.88	<50	<0.50	<0.50	<0.50	<0.50	14	5.1	6.7
10/28/2004	P	2010/0/00 VV VP0005/APPENTATIONS/2005/2005/APPENTATIONS/	457.40	38.0	45.0	20.32	437.08	<50	<0.50	<0.50	<0.50	<0.50	29	1.3	7.2
04/13/2005	P		457.40	38.0	45.0	16.20	441.20	<50	<0.50	<0,50	<0.50	<0.50	3.7	2.8	7.0
10/27/2005	P		457.40	38.0	45.0	21.98	435.42	<50	<0.50	<0.50	<0.50	<0.50	21	1.04	7.2
04/12/2006	100-200	Well inaccessible in	457.40	38.0	45.0	_	1	<u>-</u> -0	-		<u></u>			=	100000
10/31/2006			457.40	38.0	45.0	***								**	
4/19/2007	P		457.40	38.0	45.0	22.38	435.02	<50	<0.50	<0.50	<0.50	<0.50	12	7.11	7.57
MW-12													***************************************		
3/23/1995		h	455.04	18.0	34.5	15.54	439.50		-				-	4	00
5/31/1995			455.04	18.0	34.5	15.66	439.38	<50	<0.5	<0.5	<0.5	<0.5			
8/31/1995	-	h	455.04	18.0	34.5	18.23	436.81	-		-				- 12	75.75 10.75
11/28/1995			455.04	18.0	34.5	17.53	437.51	<50	<0.5	<0.5	<0.5	<0.5	<3		
2/22/1996		h	455.04	18.0	34.5	14.45	440,59	-		-	_			State on a con-	000/1/0/0000000
5/23/1996		~ 151112 cair (	455.04	18.0	34.5	14.88	440.16	<50	<0.5	<0.5	<0.5	<0.5	<3		**
8/8/1996		h h	455.04	18.0	34,5	17.30	437.74	-	-		_	_	<u>-</u>	-	2000 TO
11/7/1996			455.04	18.0	34.5	18.30	436.74	<50	<0.5	<0.5	<0.5	<0.5	<3		
3/27/1997		h	455.04	18.0	34.5	15.69	439,35	200	<u> </u>	1 (1) <u></u>			3 4 <u></u>		<u> </u>
5/19/1997			455.04	18.0	34.5	17.41	437.63	<50	<0.5	<0.5	<0.5	<0.5	<3		
5/18/1998			455.04	18.0	34.5	15.21	439.83	<50	<0.5	<0.5	<0.5	<0.5	ઢ	_	
11/2/1998		m	455.04	18.0	34.5					~-					
6/4/1999		m	455.04	18.0	34.5			-					90 90 <b></b> 00 0	- s	88 <b>-1</b> 9
11/11/1999		m	455.04	18.0	34.5		<del></del>			 231100000000000000000000000000000000000	***				
6/20/2000 8/29/2000		m	455.04 455.04	18.0 18.0	34.5			-					property and	-	
11/29/2000		m m	455.04	18.0	34.5						222214022222222222	 Santananan			
5/2/2001		m	455.04	18.0	34.5 34.5		 		<del></del>			-	_	-	
8/15/2001		m	455.04	18.0	34.5	 							***	 ntessassassassassassassassassassassassassa	 Literatorium
10/5/2001		m	455.04	18.0	34.5 34.5		 	-				20 00 00 00		88 <del>-</del> 8	
1/21/2002		m	455.04	18.0	34.5										 VESTANDEZ)
4/26/2002		m	455.04	18.0	34.5		——————————————————————————————————————				<u>-</u>		- - -		
,,,	ŀ	***	100,04	10.0	( Jan				***						

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-12 Cont.															
10/7/2002	<u></u>	m	455.04	18.0	34.5	_			-						
05/01/2003		c, m	455.04	18.0	34.5				*-						
10/03/2003		m	455.04	18.0	34.5	_		=		-				Second Con-	
04/06/2004	P		457.37	18.0	34.5	18.14	439.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.4
10/28/2004	P	0.000 0.000 00.00	457.37	18.0	34.5	20.66	436.71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	6.8
04/13/2005	P		457.37	18.0	34.5	16.25	441.12	<50	<0.50	<0.50	<0.50	0.55	<0.50	1.9	7.5
10/27/2005	P		457.37	18.0	34.5	19.77	437.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.81	7.0
04/12/2006	P		457.37	18.0	34.5	16.08	441.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	7.2
10/31/2006	6 (i) 1 (i)	1 (0.00) (0.00)	457.37	18.0	34.5	-	-					50 O			
4/19/2007	NP		457.37	18.0	34.5	22,34	435.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.66	7.28
MW-13							***								
1/21/2002	P			-		24.61		15,000	160	68	1.700	3,200	4,900/5,200	0.71	22
4/26/2002	P					24.20		17,000	98	<100	1,700	3,400	1,600	0.6	
10/7/2002		ь			-	20.12	-	14,000	510	<50	2,200	2,300	2,800	0.8	
05/01/2003	P	С				17.82		21,000	230	<50	1,900	2,300	1,600	1.9	
10/03/2003	P	d	-		_	19.91	-	19,000	570	55	1,900	2,300	2,400	0.8	6.9
04/06/2004	P		457.91			17.14	440.77	15,000	470	35	1,600	1,300	1,800	2.0	6.7
10/28/2004	P		457.91	-	_	18.83	439.08	18,000	350	<25	1,900	1,800	1,800	0.8	6.7
04/13/2005	P	6	457.91			15.23	442.68	9,700	110	<25	860	280	920	0.9	6.9
10/27/2005	P		457.91	-		18.45	439.46	11,000	120	12	1,500	450	580	0.75	6.8
04/12/2006	P		457.91			15.06	442.85	4,700	65	<10	450	69	470	1.2	6.8
10/31/2006	P		457.91	<u> </u>	<b>.</b>	19.06	438.85	15,000	150	<25	1,700	400	710	787 1025 757	6.87
4/19/2007	NP		457.91			22.21	435.70	14,000	60	<25	1,800	640	330	1.44	7.09
VW-1															
8/29/2000	P		-	24	45	17.40		2,360	27.6	11.6	26.3	33.2	110	4.47	122001277
11/29/2000	P			24.0	45	18.75		<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.46	
5/2/2001				24.0	45	21.59		<u></u>			<b></b>	~0.300 		0.40	-
8/15/2001	P	S		24.0	45	24.62		1,200	6.3	4.3	1.7	1.3	20/17		
8/15/2001		q		24.0	45		_	1,200	6.2	4.1	1.8	1.1	20/17	_	

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Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ;	g/L)		-	
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
VW-1 Cont.	The state of the s														
10/5/2001	P	S		24.0	45	24.75	-	1,500	140	55	28	82	610/660	0.71	
1/21/2002		q, s		24.0	45			8,000	770	320	96	1,100	2,500/3,200		
1/21/2002	P	S	-	24.0	45	24,59	_	6,700	810	350	270	1,100	2,600/3,400	0.69	950000 top1
4/26/2002	P			24.0	45	24.27		370	26	2.1	6.6	1.7	48	0.5	
4/26/2002		q		24.0	45	-	<del>_</del>	350	24	1.6	5.9	1.6	45	11/7/7/25/7/12/1	
10/7/2002	P	b		24.0	45	19.20		410	25	2.2	8	4.3	88	1.7	
05/01/2003	P	Carrier in		24.0	45	16.60	1	240	6.4	<0.50	3.3	1.3	36	1.7	<u> </u>
10/03/2003	P	d		24.0	45	18.82		180	1.5	<0.50	0.69	<0.50	12	1,1	7.3
04/06/2004	P		457.08	24.0	45	15.78	441.30	300	2.2	<0.50	3.0	1.3	13	2.4	7.2
10/28/2004	P		457.08	24.0	45	18.33	438.75	210	<0.50	<0.50	0.67	<0.50	<0.50	1.2	7.1
04/13/2005	P		457.08	24.0	45	14.02	443.06	740	1.8	<0.50	3.6	1.1	9.6	2,4	7.1
10/27/2005	P		457.08	24.0	45	17.65	439.43	1,500	78	73	36	81	13	1.64	7.3
04/12/2006	P		457.08	24.0	45	13.89	443.19	230	1.4	<0.50	2.2	0.76	1.6	1,4	7.3
10/31/2006	P		457.08	24.0	45	17.87	439.21	80	<0.50	<0.50	2.3	0.82	<0.50		7.76
4/19/2007	P		457.08	24.0	45	21.09	435.99	250	1.6	<0.50	4.7	1.3	3.0	1.15	7.66
VW-2															
8/29/2000		g	-	28	49.5	-								<u>-</u>	35723307
11/29/2000		g		28	49.5						*-			1350205N75:	
5/2/2001				28	49.5			-	_	10 <u>m</u>	_			<u></u>	33 <u>22</u> 33
10/5/2001		g		28	49.5		ww.					**		450000000000000000000000000000000000000	
1/21/2002	(10)	g	W W	28	49.5							-	60 TO 22 CO		(A)
4/26/2002		m		28	49.5		**						**		
10/7/2002	-	g	-	28	49.5		<del></del> -	·		- 10 <del>-</del>			-		
05/01/2003		c, g		28	49.5										
10/03/2003		Well inaccessible g	-	28	49.5		-		-	-			-	-	
04/06/2004	**		458.64	28	49.5	16.96	441.68								
10/28/2004			458.64	28	49.5	19.35	439.29	-		-	_			-	
04/13/2005			458.64	28	49.5	15.51	443.13		~~			**			
10/27/2005	0 0 <u></u> 0 0	10 (41) (40) (42) (40) (40) (40) (40)	458.64	28	49.5	18.50	440.14	<u> </u>						<del></del>	
04/12/2006			458.64	28	49.5	14.92	443.72					572.00509.00109.655	***		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	2/L)	Control of the Contro		
Well and			тос	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet msl)	(ft bgs)	(ft bgs)	(feet bgs)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	МТВЕ	(mg/L)	pН
VW-2 Cont.															
10/31/2006			458.64	28	49.5	19.01	439.63	-		-			-		-
4/19/2007		annon 11,000,000,000,000 (Control of the Control of	458.64	28	49.5	22.52	436.12								
VW-3															
8/29/2000	P			15.5	24	17.93		25,400	3,540	10,600	1,280	43,000	44,700		S(-S)
11/29/2000	P	s		15.5	24	19.75		54,200	9,450	1,870	2,350	9,400	12,300/15,100	0.47	
<i>5/2/</i> 2001	-	k	-	15.5	24	-		-	-		-		77		500 T 500 T
VW-4															
8/29/2000		g		17	30		<u> </u>	-					_	50 <u>21</u> 70	<u>-</u>
11/29/2000	P	s		17	30	19.45		37,500	4,510	206	2,100	9,030	6,770/7,880	0.42	######################################
11/29/2000		q, s		17	30			36,100	3,700	206	1,850	7,890	6,430/8,460		(0) <u></u> (0)
5/2/2001				17	30	21.66						**			**
8/15/2001	0 at	0.000.000.000		17	30			-		-	-	01 10 <b></b> 0 10		-	(% <b></b> )
10/5/2001		f		17	30					<del></del>					
1/21/2002	-	f		17	30		6-0-6 <b>-</b> 6-6-6	-		-		6 ( )			
4/26/2002		f		17	30		**						#		
10/7/2002	-	1.0		17	30	19.25		-	0.7	- T			-	W 🕶 S	
05/01/2003		C		17	30	17.29	***							**	
10/03/2003	P	d, n		17	30	19.10	-	48,000	3,300	1,700	3,600	21,000	1,600	10.5	6.7
04/06/2004			456.99	17	30	18.05	438.94						w		
10/28/2004			456.99	17	30	18.71	438.28		-	-				_	
04/13/2005			456.99	17	30	14.62	442.37			 W/688800000000000000			**		
10/27/2005			456.99	17	30	18.00	438.99			_	<u></u>	<u></u>	<u>-</u>		
04/12/2006			456.99	17	30	14,42	442.57								**
10/31/2006 4/19/2007			456.99	17	30	18.30	438.69					-		<u>-</u>	
4/19/2007			456.99	17	30	20.91	436.08								

### ABBREVIATIONS & SYMBOLS:

- -- = 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

ft MSL = Feet above mean sea level

GRO = Gasoline range organics

GWE = Groundwater elevation measured in ft MSL

mg/L = Milligrams per liter

MTBE = Methyl tert-butyl ether

NP = Well not purged prior to sampling

P = Well purged prior to sampling

TOC = Top of casing measured in ft MSL

TPH-g = Total petroleum hydrocarbons as gasoline

 $\mu g/L = Micrograms per liter$ 

### FOOTNOTES:

- a = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel,
- b = Chromatogram Pattern: C6-C10.
- c = TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03).
- d = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.
- e = Well sampled annually in the fourth quarter.
- f = Well dry.
- g = Well inaccessible.
- h = Well sampled semi-annually in second and fourth quarters.
- k = Well abandoned.
- m = Unable to locate well.
- n = Sheen in well,
- q = Duplicate sample.
- r = Well removed from sampling schedule.
- s = Original sample analyzed by 8021B and confirmation by 8260.
- t = Bolts securing well box cover stripped at head. Unable to sample well.
- u = Hydrocarbon result partly due to individ. peak(s) in quant. range.
- v = pH measurement is believed to be erroneous.

### NOTES:

Beginning in the second quarter 2003 (05/01/03) TPH-g and BTEX were analyzed using EPA Method 8260B, and MTBE was analyzed by EPA Method 8260B beginning in fourth quarter 2002. Prior to 05/01/03, TPH-g was analyzed by EPA Method 8015; BTEX by EPA Method 8021B (EPA method 8020 before 11/11/99); and MTBE by EPA Method 8021B. (EPA method 8020 before 11/11/99). Any MTBE detection by 8021B was confirmed by EPA Method 8260 beginning third quarter 2000 (08-29-00 results).

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.

Wells were resurveyed to NAVD '88 datum by URS Corporation on March 8, 2004.

Values for DO and pH were obtained through field measurements.

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

Table 2. Summary of Fuel Additives Analytical Data Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ЕТВЕ	TAME	1,2-DCA	EDB	Comments
MW-1									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2							111111111111111111111111111111111111111		
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3						1,000			
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
10/7/2002	<400	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
5/1/2003	<100	25	86	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	22	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/19/2007	<300	<20	<0.50	<0.50	<0.50	0.66	<0.50	<0.50	
MW-6									
10/7/2002	<40	<20	8	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<500	<100	120	⊴5.0	<5.0	<5.0	<2.5	<2.5	2
04/06/2004	<5,000	<1,000	1,700	<25	<25	<25	<25	<25	
10/28/2004	<5,000	<1,000	3,100	<25	<25	<25	<25	<25	
04/13/2005	<10,000	<2,000	3,900	<50	<50	<50	<50	<50	
10/27/2005	<10,000	<2,000	2,900	<50	<50	<50	<50	<50	b
04/12/2006	<30,000	<2,000	3,400	<50	<50	<50	<50	<50	p
10/31/2006	<15,000	<1,000	3,400	<25	<25	<25	<25	<25	b

Table 2. Summary of Fuel Additives Analytical Data Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and				Concentrati	ons in (μg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-6 Cont.								-	
4/19/2007	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	
MW-7									
10/7/2002	<40	<20	41	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20	43	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<200	<40	49	<2.0	<2.0	<2.0	<1.0	<1.0	2
04/06/2004	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	2,3	<0.50	<0.50	<0.50	<0.50	<0.50	b
04/12/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>b</b>
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9			<u></u>						
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	1,4	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-10			***************************************				APPENDING THE WAY AND A STANFACTORY	- and the same of	
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-11	and the second s		responsibilitativa transcol (2000)	The control of the co	and the control of th		.com 12002001/40030679025061297975[30]		
10/7/2002	<40	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20		<0.50	<0.50	<0.50	<0.50	<0.50	
					30.00	10.50	20.30	<b>100</b>	

Table 2. Summary of Fuel Additives Analytical Data Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and					ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ЕТВЕ	TAME	1,2-DCA	EDB	Comments
MW-11 Cont.									
10/03/2003	<100	<20	3.1	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006			••		 				Well inaccessible
4/19/2007	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-12									
04/06/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	The state of the s
04/12/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>b</b> new constant of the second
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13									
10/7/2002	<4,000	<2,000	2,800	<50	<50	<50	<50	<50	
5/1/2003	<10,000	<2,000		<50	<50	<50	<50	<50	
10/03/2003	<10,000	<2,000	2,400	<100	<100	<100	<50	<50	a a
04/06/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	
10/28/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	
04/13/2005	<5,000	<1,000	920	<25	<25	<25	<25	<25	
10/27/2005	<2,000	<400	580	<10	<10	<10	<10	<10	
04/12/2006 10/31/2006	<6,000 <15,000	<400 <1,000	470 710	<10 <25	<10 <25	<10 <25	<10 <25	<10	b
4/19/2007	<15,000	<1,000	330	<25 <25	<25 <25	<25 <25	<25 <25	<25 <25	b
VW-1	12,000	11,000		723	~23	~23	\43	443	
	Elicia (Chargain) a productiva de comunicación	\$2700-735774550 (COMMASSA) NOOO 1-0-1	20182023425088Cxxxxxxxxxxxx		700 \$454,000,000 \$500,000 \$600,000 \$400.000	ONE STATE OF THE PROPERTY OF THE PARTY.	AVA 90 80 PNR Spring (shifteen for the surrey	**************************************	
10/7/2002	<80	<40		<1.0	<1.0	<1.0	<1.0	<1.0	
5/1/2003	<100	<20		<0.50	<0.50	<0.50	<0.50	<0.50	1073 D. (174 M. 170 C. (174 M. 170 C. (174 M. 170 C. (174 M. 170
10/03/2003	<100	<20	12	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and			,	Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
VW-1 Cont.									
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	9.6	<0.50	<0.50	<0.50	<0.50	<0.50	200 - 100 -
10/27/2005	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
4/19/2007	<300	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
VW-2									
10/03/2003			-		-	-		-	Well inaccessible
VW-4									
10/03/2003	<100,000	<20,000	1,600	<1,000	<1,000	<1,000	<500	<500	a

### ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

μg/L = Micrograms per Liter

### FOOTNOTES:

a = This sample was analyzed 3 days after 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.

### NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

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

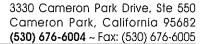
Table 3. Historical Ground-Water Flow Direction and Gradient Station #6113, 785 East Stanley Blvd., Livermore, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/23/1995	Northwest	0.035
5/31/1995	North-Northwest	0.028
8/31/1995	North-Northwest	0.03
11/28/1995	North-Northwest	0.025
2/22/1996	North-Northwest	0.031
5/23/1996	North-Northwest	0.025
8/8/1996	North	0.019
11/7/1996	North-Northeast	0.019
3/27/1997	North-Northwest	0.021
5/19/1997	North	0.019
5/18/1998	North	0.02
11/2/1998	North	0.02
6/4/1999	North	0.02
11/11/1999	North	0.03
6/20/2000	North-Northeast	0.014
8/29/2000	North-Northeast	0.013
11/29/2000	North-Northwest	0.026
5/2/2001	Northeast	0.026
8/15/2001	Northeast	0.047
10/5/2001	Northeast	0.031
1/21/2002	Northeast	0.033
4/26/2002	Northeast	0.031
10/7/2002	Northeast	0.017
5/1/2003	North-Northeast	0.011
10/3/2003	North-Northeast	0.016
4/6/2004	North-Northeast	0.013
10/28/2004	North-Northeast	0.014
4/13/2005	North-Northwest	0.02
10/27/2005	North-Northwest	0.01 to 0.03
4/12/2006	Northeast	0.01
10/31/2006	Northeast	0.014
4/19/2007	Northeast	0.013

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

# APPENDIX A

STRATUS EVIRONMENTAL, INC. GROUNDWATER SAMPLING DATA PACKAGE (INCLUDES BILL OF LADING, FIELD DATA SHEETS, AND LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION)





May 11, 2007

Mr. Rob Miller Broadbent & Associates, Inc. 2000 Kirman Avenue Reno, NV 89502

Re:

Groundwater Sampling Data Package, BP Service Station No. 6113, located at 785 E. Stanley, Livermore, California (Quarterly Monitoring performed on April 19, 2007)

# **General Information**

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representatives: Vince Zalutka and David Demello

Date: April 18, 2007

Arrival: 04:00 Departure: 11:40

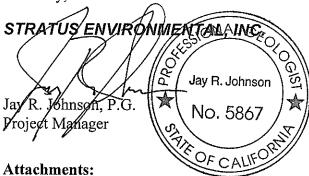
Weather Conditions: Overcast Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: None noted

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, field data sheets, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,



- Bill of Lading
- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

# BP GEM OIL COMPANY

NON WELLS IS BY THE CONTRACTOR, MADE UP INTO GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAS BEEN APPROPRIATE SIZE AND HAULED BY FROM SEAPORT ENVIRONMENTAL IN REDWOOD CITY, CALIFORNIA. RECOVERED LADING FROM GROUNDWATER TO PURGEWATER WHICH ENVIRONMENTAL HAZARDOUS PURGEWATER RECORD HAZARDOUS RECOVERED COLLECTED LOADS OF BELSHIRE

Cameron Park, CA 95682, (530) 676-6004], and Dulous Environmental, Inc. [Dulous, PO Box 2559, Orangevale, CA The contractors performing this work are Stratus COMPANY to recover, collect, and apportion into loads the non-Environmental, Inc. [Stratus, 3330 Cameron Park Drive, Suite 550, 95662, (916) 990-0333]. Stratus is authorized by BP GEM OIL hazardous well purgewater that is drawn from wells at BP GEM Oil Company facilities and deliver that purgewater to BP GEM Oil Company facility 5786 located in West Sacramento, California. Dulous also performs these services under subcontract to Stratus. Transport routing of the non-hazardous well purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The non-hazardous well purgewater is and remains the property of BP GEM Oil Company.

This **Source Record BILL OF LADING** was initiated to cover the recovery of non-hazardous well purgewater from wells at the BP GEM Oil Company facility described below:

# 785 E. Stanley Bl. LIVERMORE Total Gallons Collected From Groundwater Monitoring Wells: Stratus vehicle # Adjustments BILL OF LADING loaded onto Any Other time TYPE A 47 222 Added Equipment TOTAL GALS. RECOVERED Stratus Project # Station Address Rinse Water





Global ID: T0600100111
Site Address 785 E. Stanley Blvd.
City Livermore, CA
Sampled By: VinceZ

Site Number 6113

Project No E 6 113 - 0 4

Project PM Jay Johnson

Date 4-19-97

Signature  $\sqrt{-3}$  Date:  $\sqrt{-19-07}$ 

		Water Level	Data			Purge Volume Calculations						all Dur	ge Met	hod	<b>1</b> 00	ard "	Field Data	
		Mater Feath	Data		<u> </u>		urge ve	Juine Co	iiouialiUriS			on r ur	30 INIC!	nou	34	mple Reco	,, u	, ICIO DOLA
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of well feet	Qir. Meas. Depth of Weil feel	Casing Water Column (A)	Well Diameter (Inches)	Multiplier Value (B)	Three Casing Volumes (Gallons)	Actual Water Purged (Gallons)	No Purge	Bailer	Pump .	Other	DTW At Sample Time	Sample I.D.	Sample time	PP M Dissolved Oxygen ( <del>Mg/L)</del>
MW-1	0641	23,20	29	h	44.39		2	0.5		-	Х					MW-1		
MW-2	0626	23.85	28		38.38		2	0.5			Х					MW-2	<b>,</b>	
MW-3	0656	23.07	28.5	7.	38.90		4	2			X					MW-3		~~~~
MW-4	0708	22.72	21		26.49		4	2	-		X	×			12.71	MW-4	0730	2,92
MW-6	0745	22.25	48		46.63	44.38	4	2	88.76	89			メ		22.34	MW-6	1036	5.54
MW-7	0728	22.11	48	\	67-40	45.29	4	2	90.58	91			'法		22.24	MW-7	0941	4.37
MW-8	0656	22.39	47		66.39		4	2	F		Х					MW-8		~~
MW-9	0659		48		67.62		4	2			X					MW-9	<del></del>	~
	0621	24.00	32		49.89	<del></del>	4	2			X					MW-10	-	
MW-11	0521	22.38	38		44.31	21.93	2	0.5	11	()		X			32.99	MW-11	0604	7,11
MW-12	0530	22.34	18		33.76	~~	2	0.5			X	X			33.76	MW-12	0555	4.66
MW-18ే		22,21	18		30./2		4	2			X	$\succeq$			220-21	MW-13	0757	1.44
∨w-f	0703	21.05	24		44.13	23.04	4	2	56.08	56			×		21.20	VW-1	1125	1015
VW-2		22.52	28		49,00		4	2			X					VW-2		
VW-4	0718	20.91	17		24.50		4	2			Х					VW-4		
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												· · · · · · · · · · · · · · · · · · ·						
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				J														
							<u> </u>											

Multiplier Values 2" = 0.5 3" = 1.0 4"=2.0 6"=4.4



Site Address	785 E. Stanley Blvd.
City	Livermore, CA
Sampled By:	VinceZ

Site Number	6	113		_				
Project No		100		_				
Project PM Jay Johnson								
D-4-	.41	- 00	-	_				



v3

Well ID		MV	V-1		Well ID	MW-2						
purge start tin	ne			purge start time								
	Temp C	pН	cond	gallons		Temp C	рН	cond	gallons			
time					time				·			
time					time							
time					time							
time					time							
purge stop tin	ne			purge stop time								
Well ID		M۷	V-3		Well ID MW-4							
purge start tin	ne	HAMARANITY .			purge start time BALER No OWE							
parge dialetin	Temp C	pН	cond	gallons		Temp C		cond	gallons			
time	1011120	P		<u> </u>	time		7.76		Ø			
time				******	time	-		***************************************	- /			
				1.001	time			- 1	#* u			
time					time							
time		<u> </u>	l,	purge stop time								
purge stop tir Well ID	116	M	V-6 /	Well ID MW-7								
***************************************	me 0959				823 7			00				
Purge start til				gallons	ir dige start ain	_	рН	cond	gallons			
	Temp C	7.26	cond 724	yanons ⊗								
time			675		time Tanker time	1083	6 -	aff.				
time			36 BZ		Re Stort time 0858	18.5	7.66	595	46			
time	(1.2	10.76	3000	<u> </u>								
time	(0.00	<u> </u>	<u></u>		ume 1000 100							
	me /030		A / D		purge stop time 0929							
Well ID		IMN	N-8		Well ID MW-9							
purge start ti	me 			<u> </u>	purge start time							
	Temp C	pН	cond	gallons		Temp C	pН	cond	gallons			
time					time							
time					time							
time					time	<u> </u>						
time		<u></u>			time			1				
purge stop ti	ime			purge stop tim	е							



Site Address 785 E. Stanley Blvd.
City Livermore, CA
Sampled By: Vince7

Site Number	6113
Project No	
Project PM	Jay Johnson
Date	4-19-07
	1/3

Well ID		MW-	-10	Well ID		MW	'-11 <i>O</i>	604				
purge start time	· · · · · · · · · · · · · · · · · · ·				purge start tim	e Ba	iler	No	Odor			
	Temp C	рН	cond	gallons		Temp C	рН	cond	gallons			
time					time	18.3	7.87	593	<b>≥</b>			
time					time	18.4	7.36	\$29	6			
time					time	18-3	7.57	610	1/			
time					time				`			
purge stop time	3				purge stop tim	ie						
Well ID		MW	-12		Well ID			/-13 <i>O</i>				
purge start time	e BAI/B	z No	Ovan		purge start tim	ne Ba	iler	No	Odor			
	Temp C	Нq	cond	gallons		Temp C		cond	gallons			
time	15.4	7,28	545	Ø	time	1819	7.09	915	<b>P</b>			
time	18.3	7,28 \L	ler	u	time							
time					time							
time					time							
purge stop tim	e				purge stop time							
Well ID		W	V-1 /	\$25	Well ID VW-2							
Purge start tim	ne [05]			·	Purge start time							
	Temp C	pН	cond	gallons		Temp C	рН	cond	gallons			
time	18.9		591	82	time							
time	13.8	7.94		29	time			, ,				
time	18.5	I			time							
time					time		200		ļ <u></u>			
purge stop tim	ne	1125	1		purge stop time							
Well ID		V	V-4		Well ID 0							
purge start tin	ne			purge start tir	me		<u> </u>					
<u> </u>	Temp C	Hq	cond	gallons		Temp C	pH	cond	gallons			
					time							
time	1				time							
time		1							1			
time					time							
					time time							

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Account: 6 // 3

Sampled by: Vince / Dave Date: 4-19-07

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Add'l Notes and Other Stuff	* Peplaced w/ new bolts	Bolt holes nord retapped		- The second	Transferred Transferred Transferred Transferred Transferred Transferred Transferred Transferred Transferred Tr	The second secon	hange bolts missing	Replaced whom bolt					Management of the Control of the Con	And the second s		
Misc.																
Cracked Box and/or Bolt - Holes																
Cracked or Broken Lid	j										-					
Bolt-Holes Stripped	- Sabetica			And the second s						and the state of t		and the state of t				
Bolts Stripped								×								
Bolts Missing	X(z)	2)8					×			The state of the s		The state of the s				The state of the s
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Lock Missing (Replaced with new)																
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	MM-	\	5		<u> </u>			<u> </u>	<u></u>		\ \ \ \	- Au			<b>!</b>	

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Col	mp	an	У

A BP affiliated company

# Chain of Custody Record

**Project Name:** 

ARCO 6113

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 6113

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time: WY 0400 Temp: Off-site Time: Temp: Sky Conditions: DYERCHST Meteorological Events: Wind Speed: Direction:

Lab Name: TestAmerica	BP/AR Facility No.: 6113	Consultant/Contractor: Stratus Environmental, Inc.				
Address: 885 Jarvis Drive	BP/AR Facility Address: 785 E. Stanley Blvd., Livermore Address: 3330 Cameron Park Drive, Suite 550					
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682				
Lab PM: Lisa Race	California Global ID No.: T0600100111	Consultant/Contractor Project No.: E6113-04				
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G0C54-0015	Consultant/Contractor PM: Jay Johnson				
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005				
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF				
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net				
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.				
Lab Bottle Order No: Matrix	Preservative \$2.60 Request	ted Analysis				
Tiem  Date  Soil/Solid  Water/Liquid  Air	No. of Containers Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCI Methanol GRO/BTEX/Oxy* 1,2-DCA Ethanol EDB	Sample Point Lat/Long and Comments  *Oxy= MTBE,TAME,ETBE,DIPE,TBA				
I MW-4 0730 041907 %	3 X X X X					
2 MW-6 (1936)	3 X X X X					
3 MW-7	3					
4 MW-11 0694	3 , X X X X					
5 MW-12 0555	6 X X X X					
6 MW-13 Q757	3 X X X X					
7 VW-1 125						
8	3 X X X X					
9 TB-6113-04 92007 0500 04/90 X ·	2	HOLD				
Sampler's Name: Vince Zalutka	Relinquished By / Affiliation Date Time					
Sampler's Company: STRATUS		Accepted By / Affiliation Date Time				
Shipment Date: 4-19-07	Vine Faliotty 04,190 1343	Cly/ Hap 97 SK 4.49 1345				
Shipment Method: STRATUS						
Shipment Tracking No:						
Special Instructions: Please cc results to rmiller@	ybroadbentinc.com					
Custody Seals In Place: Yes / No	Yes / No   Cooler Temp on Receipt: °F/C   Trip Blank: Ye	es / No   MS/MSD Sample Submitted: Yes / No				



4 May, 2007

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: ARCO #6113, Livermore, CA

Work Order: MQD0845

Enclosed are the results of analyses for samples received by the laboratory on 04/19/07 19:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

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





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MQD0845-01	Water	04/19/07 07:30	04/19/07 19:55
MW-6	MQD0845-02	Water	04/19/07 10:36	04/19/07 19:55
MW-7	MQD0845-03	Water	04/19/07 09:41	04/19/07 19:55
MW-11	MQD0845-04	Water	04/19/07 06:04	04/19/07 19:55
MW-12	MQD0845-05	Water	04/19/07 05:55	04/19/07 19:55
MW-13	MQD0845-06	Water	04/19/07 07:57	04/19/07 19:55
VW-1	MQD0845-07	Water	04/19/07 11:25	04/19/07 19:55
ГВ-6113-04192007	MQD0845-08	Water	04/19/07 05:00	04/19/07 19:55

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





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MQD0845-01) Water Sampled: (	04/19/07 07:30	Received:	04/19/07	19:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7D27035	04/27/07	04/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		111%	60-1.	25	"	u	n	"	
MW-6 (MQD0845-02) Water Sampled: 0	04/19/07 10:36	Received:	04/19/07	19:55					
Gasoline Range Organics (C4-C12)	970	500	ug/l	10	7E01004	05/01/07	05/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		80 %	60-1.	25	"	**	n	"	
MW-7 (MQD0845-03) Water Sampled: 0	04/19/07 09:41	Received:	04/19/07	19:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7D27035	04/27/07	04/28/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		109 %	60-1.	25	n	U	"	v	
MW-11 (MQD0845-04) Water Sampled:	04/19/07 06:04	Received	: 04/19/07	19:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7D27035	04/27/07	04/28/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		121 %	60-12	25	"	"	"	"	· · · · · · · · · · · · · · · · · · ·
MW-12 (MQD0845-05) Water Sampled:	04/19/07 05:55	Received	: 04/19/07	19:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7D27035	04/27/07	04/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		111%	60-12	25	rr	"	11	"	
MW-13 (MQD0845-06) Water Sampled:	04/19/07 07:57	Received	: 04/19/07	19:55					
Gasoline Range Organics (C4-C12)	14000	2500	ug/l	50	7D27035	04/27/07	04/28/07	LUFT GCMS	<i>2</i>
Surrogate: 1,2-Dichloroethane-d4		118%	60-12	25	н	υ	"	"	
VW-1 (MQD0845-07) Water Sampled: 0-	4/19/07 11:25	Received:	04/19/07 1	9:55					
Gasoline Range Organics (C4-C12)	250	50	ug/l	l	7D27035	04/27/07	04/28/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112%	60-12	25	"	,,	"	11	





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MQD0845-01) Water	Sampled: 04/19/07 07:30	Received	: 04/19/07 1	9:55					
tert-Amyl methyl ether	0.66	0.50	ug/l	t	7D27035	04/27/07	04/27/07	EPA 8260B	
Benzene	ND	0.50	"	t)	U	ut .	**	U	
tert-Butyl alcohol	ND	20	н	Ħ	U	н	†I	It .	
Di-isopropyl ether	ND	0.50	fl	И	P	н	U	It	
I,2-Dibromoethane (EDB)	ND	0.50	ti	11	H	Ħ	U	и	
1,2-Dichloroethane	ND	0.50	u	†1	lı	tı	11	H	
Ethanol	ND	300	0	ŧı	и	U	If	*1	
Ethyl tert-butyl ether	ND	0.50	0	Ħ	n	U	И	u	
Ethylbenzene	ND	0.50	0	Ü	n	P	h	u	
Methyl tert-butyl ether	ND	0.50	ls.	U	ø	tt	IJ	D	
Toluene	ND	0.50	It	"	O	It	†I	17	
Xylenes (total)	ND	0.50	и	lt .		. н	ŧı	И	
Surrogate: Dibromofluoromethan	e	102 %	75-12	20	"	н	a	"	
Surrogate: 1,2-Dichloroethane-de	4	111 %	60-12	25	u	u	"	"	
Surrogate: Toluene-d8		94 %	80-12	10	п	"	n	"	
Surrogate: 4-Bromofluorobenzen	2	90 %	60-13	5	n	"	#	"	
MW-6 (MQD0845-02) Water	Sampled: 04/19/07 10:36	Received:	04/19/07 1	9:55					
tert-Amyl methyl ether	ND	25	ug/l	50	7D27035	04/27/07	04/28/07	EPA 8260B	
Benzene	ND	25	ti	н	#	0	It	u	
tert-Butyl alcohol	ND	1000	U	ŧI	μ	U	ıı	0	1
Di-isopropyl ether	ND	25	0	Ħ	71	n	н	0	
1,2-Dibromoethane (EDB)	ND	25	(t	U	Ħ	IF	Ħ	e	
1,2-Dichloroethane	ND	25	P .	"	U	и	0	II.	
Ethanol	ND	15000	H	17	D.	и	0	и	
Ethyl tert-butyl ether	ND	25	II .	If	H	ti	II.	н	•
Ethylbenzene	ND	25	Ħ	н	ļt	71	17	11	
Methyl tert-butyl ether	2200	25	ti	"	н	(1	pt .	Ħ	
Toluene	ND	25	11	н	ı	U	н	0	
Xylenes (total)	ND	25	0	tı .	н	11	н	11	
Surrogate: Dibromofluoromethan	e	106 %	75-12	0	"	"	n .	"	
Surrogate: 1,2-Dichloroethane-da	1	114%	60-12	5	"	n	n	"	
Surrogate: Toluene-d8		96 %	80-12	0	n	"	v	"	
Surrogate: 4-Bromofluorobenzene	?	88 %	60-13	5	"	n	"	re	





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

## Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MQD0845-03) Water	Sampled: 04/19/07 09:41	Received	: 04/19/07 1	9:55					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7D27035	04/27/07	04/28/07	EPA 8260B	
Benzene	ND	0.50	li .	0	n	U	If	11	
tert-Butyl alcohol	ND	20	It	ø	Ħ	U	И	U	
Di-isopropyl ether	ND	0.50	И	0	.,	It	μ	O	
1,2-Dibromoethane (EDB)	ND	0.50	н	Ħ	U	И	0	II.	
1,2-Dichloroethane	ND	0.50	i1	И	17	Ħ	U	и	
Ethanol	ND	300	U	п	и	0	H*	н	
Ethyl tert-butyl ether	ND	0.50	U	Ħ	Ħ	0	н	ti	
Ethylbenzene	ND	0.50	II.	ø	11	H	#1	ŋ	
Methyl tert-butyl ether	ND	0.50	н	n	U	ıı	a	If	
Toluene	ND	0.50	н	H	H	4	0	и	
Xylenes (total)	ND	0.50	11	н	И	. 0	I+	н	
Surrogate: Dibromofluoromethan	ne	104 %	75-120	)	n	"	"	u	
Surrogate: 1,2-Dichloroethane-de	4	109 %	60-12:	5	"	"	"	"	
Surrogate: Toluene-d8		91%	80-120	)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	e	86 %	60-133	5	"	н	"	"	
MW-11 (MQD0845-04) Water	Sampled: 04/19/07 06:04	Received	1: 04/19/07 1	19:55					
tert-Amyl methyl ether	ND	0.50	ug/l	i	7D27035	04/27/07	04/28/07	EPA 8260B	
Benzene	ND	0.50	Ir	0	U	It	ŧI	11	**
tert-Butyl alcohol	ND	20	ļi	e	O.	n	a	н .	
Di-isopropyl ether	ND	0.50	ц	R	11	н	0	Щ	
1,2-Dibromoethane (EDB)	ND	0.50	11	и	If	Ħ	U	н	
1,2-Dichloroethane	ND	0.50	11	н	lı .	U	If	*	
Ethanol	ND	300	a	Ħ	н	U	п	0	
Ethyl tert-butyl ether	ND	0.50	0	H	ŧi	B	'n	II.	
Ethylbenzene	ND	0.50	If	U	U	If	1)	11	
Methyl tert-butyl ether	12	0.50	H	U	U	II .	q	u	
Toluene	ND	0.50	н	н	I)	н	U	н	
Xylenes (total)	ND	0.50	п	IT	lt .	11	H	ti	
Surrogate: Dibromofluoromethan	e	108 %	75-120	)	н	U	"	"	, , , , , , , , , , , , , , , , , , , ,
Surrogate: 1,2-Dichloroethane-d4	1	121 %	60-125	•	"	"	n	"	
Surrogate: Toluene-d8		92 %	80-120	)	u	"	n	#	
Surrogate: 4-Bromofluorobenzene	?	88 %	60-135	ī	"	"	n .	"	





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (MQD0845-05) Water	Sampled: 04/19/07 05:55	Received	1: 04/19/07	19:55					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7D27035	04/27/07	04/27/07	EPA 8260B	
Benzene	ND	0.50	0	*1	н		и	v	
tert-Butyl alcohol	ND	20	£ŧ	U	41	11	þi	σ	
Di-isopropyl ether	ND	0.50	l)	If	ø	и	ti	It.	
1,2-Dibromoethane (EDB)	ND	0.50	Ħ	It	B	i)	U	lt.	
1,2-Dichloroethane	ND	0.50	tt	n	II.	Ħ	u	"	
Ethanol	ND	300	IJ	ŧI	и	U	If	11	
Ethyl tert-butyl ether	ND	0.50	B	a	ři	D	Į.	0	
Ethylbenzene	ND	0.50	It	ø	(I	P	H	U	
Methyl tert-butyl ether	ND	0.50	и	17	U	и	ŧI.	ņ	
Toluene	ND	0.50	н	It	U	и	ti .	If	
Xylenes (total)	ND	0.50	h	B	lt .	#	0	1¢	
Surrogate: Dibromofluoromethane	?	106 %	75-12	0	B	11	"	"	
Surrogate: 1,2-Dichloroethane-d4		111%	60-12	5	"	"	"	"	
Surrogate: Toluene-d8		94%	80-12	0	"	"	"	ŧ	
Surrogate: 4-Bromofluorobenzene		88 %	60-13	5	17	"	rr .	n	
MW-13 (MQD0845-06) Water	Sampled: 04/19/07 07:57	Received	: 04/19/07	19:55					
tert-Amyl methyl ether	ND	25	ug/l	50	7D27035	04/27/07	04/28/07	EPA 8260B	
Benzene	60	25	и	19	U	n	U	Ħ	**
tert-Butyl alcohol	ND	1000	II	H	l <sub>7</sub>	71	11	Ħ	e de la companya de La companya de la co
Di-isopropyl ether	ND	25	Ħ	н	e e	a	#	Ħ	
1,2-Dibromoethane (EDB)	ND	25	11	11	ıı	ø	ji .	U	
1,2-Dichloroethane	ND	25	"	Ħ	н	0	"	o	
Ethanol	ND	15000	U	ti	*1	I)	ji	D	
Ethyl tert-butyl ether	ND	25	It .	e	0	ji	ø	h	
Ethylbenzene	1800	25	B	l7	D.	n	D	†1	
Methyl tert-butyl ether	330	25	II	11	tr	11	D	н	
Toluene Toluene	ND	25	n	и	tr.	U	It	U	
Xylenes (total)	640	25	(1	*1	h	U	н	U	
Surrogate: Dibromofluoromethane	?	106 %	75-12	0	11	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		118%	60-12	5	"	"	"	"	
Surrogate: Toluene-d8		101%	80-12	0	v	n	и	tt.	
Surrogate: 4-Bromofluorobenzene		95 %	60-13	_	,,	"	,,	"	





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Volatile Organic Compounds by EPA Method 8260B

## TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
VW-1 (MQD0845-07) Water	Sampled: 04/19/07 11:25	Received:	04/19/07	19:55					
tert-Amyl methyl ether	ND	0.50	ug/l	I	7D27035	04/27/07	04/28/07	EPA 8260B	
Benzene	1.6	0.50	н	11	U	н	n	U	
tert-Butyl alcohol	ND	20	łı	B	D	'n	U	İŧ	
Di-isopropyl ether	ND	0.50	e	н	)4	Ħ	0	İt	
1,2-Dibromoethane (EDB)	ND	0.50	U	Ħ	н	ø	e	и	
1,2-Dichloroethane	ND	0.50	n	ø	"	U	И	11	
Ethanol	ND	300	ir .	U	"	n	н	tı	
Ethyl tert-butyl ether	ND	0.50	II	U	a	IŤ	н	0	
Ethylbenzene	4.7	0.50	н	I†	D	If	Ħ	O .	
Methyl tert-butyl ether	3.0	0.50	H	11	11	н	0	It	
Toluene	ND	0.50	ţ1	н	It	ţI	U	н	
Xylenes (total)	1.3	0.50	**	"	н	, a	tr	н	
Surrogate: Dibromofluorometha	me	102 %	75-1	20	п	17	"	n	
Surrogate: 1,2-Dichloroethane-c	14	112 %	60-1	25	rr .	u	"	n	
Surrogate: Toluene-d8		101 %	80-1	20	"	"	n	v	
Surrogate: 4-Bromofluorobenzei	ne	106 %	60-1	35	v	"	v	"	





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	****
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7D27035 - EPA 5030B P/T / LUF	r gcms									
Blank (7D27035-BLK1)				Prepared	& Analyze	ed: 04/27/	07			
Gasoline Range Organics (C4-C12)	ND	50	ug/i			A.M.				
Surrogate: 1,2-Dichloroethane-d4	2.71	****	"	2,50		108	60-125	· · · · · · · · · · · · · · · · · · ·		
Laboratory Control Sample (7D27035-BS2)				Prepared	& Analyze	ed: 04/27/	07			
Gasoline Range Organics (C4-C12)	530	50	ug/l	500		106	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.78		15	2.50		111	60-125			
Laboratory Control Sample Dup (7D27035-I	BSD2)			Prepared a	& Analyze	d: 04/27/	07			
Gasoline Range Organics (C4-C12)	459	50	ug/l	500		92	65-120	14	20	
Surrogate: 1,2-Dichloroethane-d4	2.81		"	2.50		112	60-125			
Batch 7E01004 - EPA 5030B P/T / LUFT	GCMS									
Blank (7E01004-BLK1)				Prepared 6	& Analyze	:d: 05/01/	07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l				***************************************			
Surrogate: 1,2-Dichloroethane-d4	2.45		"	2.50		98	60-125			
Laboratory Control Sample (7E01004-BS2)				Prepared &	& Analyze	d: 05/01/	07			
Gasoline Range Organics (C4-C12)	475	50	ug/l	500		95	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.31		"	2.50		92	60-125			and the second second
Laboratory Control Sample Dup (7E01004-B	SD2)			Prepared &	& Analyze	d: 05/01/0	07			
Gasoline Range Organics (C4-C12)	472	50	ug/l	500		94	65-120	0.6	20	
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-125			





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7D27035 - EPA 5030B P/T	/ EPA 8260B									
Blank (7D27035-BLK1)				Prepared a	& Analyze	ed: 04/27/0	07			
tert-Amyl methyl ether	ND	0,50	ug/l		<u>-</u>					
Benzene	ND	0.50	0							
iert-Butyl alcohol	ND	20	B							
Di-isopropyl ether	ND	0.50	P							
1,2-Dibromoethane (EDB)	ND	0.50	н							
1,2-Dichloroethane	ND	0.50	Ħ							
Ethanol	ND	300	U							
Ethyl tert-butyl ether	ND	0.50	D							
Ethylbenzene	ND	0.50	H							
Methyl tert-butyl ether	ND	0.50	и							
Toluene	ND	0.50	**							
Xylenes (total)	ND	0.50	U							
Surrogate: Dibromofluoromethane	2.56		v	2.50		102	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.71		"	2.50		108	60-125			
Surrogate: Toluene-d8	2.32		"	2.50		93	80-120			
Surrogate: 4-Bromofluorobenzene	2.18		"	2.50		87	60-135			
Laboratory Control Sample (7D27035	5-BS1)			Prepared &	& Analyze	d: 04/27/0	)7			1.4
ert-Amyl methyl ether	11.5	0.50	ug/l	10.0		115	65-135			i:
Benzene	10.6	0.50	tı	10.0		106	75-120			
tert-Butyl alcohol	220	20	0	200		110	60-135			
Di-isopropyl ether	11.4	0.50	U	10.0		114	70-130			
1,2-Dibromoethane (EDB)	12.1	0.50		10.0		121	80-135			
,2-Dichloroethane	12.3	0.50	l#	10.0		123	70-125			
Ethanol	217	300	It	200		108	15-150			
Ethyl tert-butyl ether	11,7	0.50	u	10.0		117	65-130			
Ethylbenzene	11.2	0.50	**	10.0		112	75-120			
Methyl tert-butyl ether	12.0	0.50	Ħ	10.0		120	50-140			
Toluene	10.9	0.50	n n	10.0		109	75-120			
Kylenes (total)	34.1	0.50	e	30.0		114	75-120			
Surrogate: Dibromofluoromethane	2.66		н	2.50		106	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.82		"	2.50		113	60-125			
Surrogate: Toluene-d8	2.46		n	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.48		ır	2.50		99	60-135			





Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

# Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7D27035 - EPA 5030B P/T / F	EPA 8260B									
Matrix Spike (7D27035-MS1)	Source: M	QD0845-05		Prepared	& Analyze	ed: 04/27/	07			
tert-Amyl methyl ether	11.6	0.50	ug/l	10.0	ND	116	65-135			
Benzene	11.1	0.50	D)	10.0	ND	111	75-120			
tert-Butyl alcohol	239	20	Ir	200	ND	120	60-135			
Di-isopropyl ether	11.8	0.50	н	10.0	ND	118	70-130			
1,2-Dibromoethane (EDB)	12.8	0.50	a	10.0	ND	128	80-135			
1,2-Dichloroethane	12.8	0.50	U	10.0	ND	128	70-125			L
Ethanol	258	300	u u	200	ND	129	15-150			
Ethyl tert-butyl ether	11.9	0.50		10.0	ND	119	65-130			
Ethylbenzene	12.0	0.50	и	10.0	ND	120	75-120			
Methyl tert-butyl ether	12.2	0.50	н	10.0	ND	122	50-140			
Toluene	11.5	0.50	rı	10.0	ND	115	75-120			
Xylenes (total)	37.0	0.50	0	30.0	ND	123	75-120			LN
Surrogate: Dibromofluoromethane	2,61		"	2.50		104	75-120		.,	
Surrogate: 1,2-Dichloroethane-d4	2.84		"	2.50		114	60-125			
Surrogate: Toluene-d8	2.41		"	2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.61		"	2.50		104	60-135			
Matrix Spike Dup (7D27035-MSD1)	Source: M	QD0845-05		Prepared o	& Analyze	d: 04/27/0	07			
tert-Amyl methyl ether	11.4	0.50	ug/l	10.0	ND	114	65-135	2	25	i i
Benzene	10.7	0.50	0	10.0	ND	107	75-120	4	20	
tert-Butyl alcohol	228	20	D	200	ND	114	60-135	5	25	
Di-isopropyl ether	11.4	0.50	H	10.0	ND	114	70-130	3	25	
1,2-Dibromoethane (EDB)	12.1	0.50	H	0.01	ND	121	80-135	6	30	
1,2-Dichloroethane	12.4	0.50	tı	10.0	ND	124	70-125	3	25	
Ethanol	238	300	U	200	ND	119	15-150	8	25	
Ethyl tert-butyl ether	11.8	0.50	H	10.0	ND	118	65-130	0.8	25	
Ethylbenzene	11.6	0.50	10	10.0	ND	116	75-120	3	20	
Methyl tert-butyl ether	12.1	0.50	н	10.0	ND	121	50-140	0.8	25	
Гoluene	11.1	0.50	n	10.0	ND	111	75-120	4	25	
Xylenes (total)	35.2	0.50	o o	30.0	ND	117	75-120	5	20	
Surrogate: Dibromofluoromethane	2.74		"	2.50		110	75-120		· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1,2-Dichloroethane-d4	2.79		n	2,50		112	60-125			
Surrogate: Toluene-d8	2.43		"	2,50		97	80-120			
Surrogate: 4-Bromofluorobenzene	2.57		"	2.50		103	60-135			



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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682 Project: ARCO #6113, Livermore, CA

Project Number: G0C54-0015 Project Manager: Jay Johnson MQD0845 Reported: 05/04/07 12:58

#### Notes and Definitions

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Atlar Rich	ntic
Rich	nfield
Com	pany

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO 6113

BP BU/AR Region/Enfos Segment:

State or Lead Regulatory Agency: Requested Due Date (mm/dd/yy):

BP > Americas > West > Retail > Alameda > 6113

On-site Time: 6400 Temp: Off-site Time: 1140 Sky Conditions: Meteorological Events: Wind Speed: Direction:

Lab Name: TestAmerica BP/AR Facility No.: 6113 Consultant/Contractor: Stratus Environmental, Inc. Address: 885 Jarvis Drive BP/AR Facility Address: 785 E. Stanley Blvd., Livermore 3330 Cameron Park Drive, Suite 550 Address: Morgan Hill, CA 95937 Site Lat/Long: Cameron Park, CA 95682 Lab PM: Lisa Race California Global ID No.: T0600100111 Consultant/Contractor Project No.: Tele/Fax: 408-782-8156 408-782-6308 (fax) E6113-04 Enfos Project No.: G0C54-0015 Consultant/Contractor PM: Jay Johnson BP/AR PM Contact: Paul Supple Provision or OOC (circle one) Provision Tele/Fax: (530) 676-6000 / (530) 676-6005 Address: 2010 Crow Canyon Place, Suite 150 Phase/WBS: 04-Monitoring Report Type & QC Level: Level 1 with EDF San Ramon, CA Sub Phase/Task: 03-Analytical E-mail EDD To: shayes@stratusinc.net Tele/Fax: 925-275-3506 Cost Element: 01-Contractor labor Invoice to: Atlantic Richfield Co. Lab Bottle Order No: Matrix Preservative 8260 Requested Analysis 3RO/BTEX/Oxy\* Sample Point Lat/Long and Water/Liquid Comments Time Item Sample Description No. Soil/Solid Laboratory No. Methanol 2-DCA \*Oxy= H,504 HNO, MTBE, TAME, ETBE, DIPE, TBA Air Mado845 H 080 MW-4 0730 04/907 3 хх MW-6 1036 02 3 Х 3 MW-7 0941 03  $\mathbf{x} \mathbf{x} \mathbf{x}$ 4 MW-11 04 0604 X MW-12 05  $\mathbf{x} \mathbf{x} \mathbf{x}$ 6 MW-13 06 3  $\mathbf{x} \mathbf{x} \mathbf{x}$ VW-1 Х  $|\mathbf{x}|$ TB-6113-04 92007 OB HOLD 10 Sampler's Name: Zalectka Relinquished By / Affiliation Date Time Accepted By / Affiliation Sampler's Company: 5TXA TUS Date Time 04.19.0 1343 Shipment Date: 4-19-07 にのらう 4-198 Shipment Method: 4/19 4/19/07 1955 TULLENG Shipment Tracking No: 1950 Special Instructions: Please cc results to rmiller@broadbentinc.com Custody Seals In Place: Yes / No) Temp Blank: (Yes)/No Cooler Temp on Receipt: 4. O(F)C

Trip Blank: Yes / No

MS/MSD Sample Submitted: Yes / No

# TEST AMERICA SAMPLE RECEIPT LOG

REC. BY (PRINT) WORKORDER:	TULLE NG. MODO845		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	199	07 55 3-07			For Regula DRINKING WASTE W	atory Purposes? WATER YES/NO. ATER YES/NO.
CIRCLE THE APPRO	OPRIATE RESPONSE	LAB			7		<del></del>		
	. ,	SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESER	pН	SAMPLE	DATE	REMARKS:
1. Custody Seal(s)	Present / Abser)t		A STATE OF THE PROPERTY OF THE	DESCRIPTION	I VAIIVE	2000	MATRIX	SAMPLED	CONDITION (ETC.)
	Intact / Broken*								
2. Chain-of-Custody	P(es)ent / Absent*								
3. Traffic Reports or				<u> </u>					
Packing List:	Present / Absent		<u> </u>						<del>/</del>
4. Airbill:	Airbill / Sticker								
	Present / Absent							1 /	
5. Airbill #:							1 6	<del>//</del>	·
6. Sample Labels:	Present / Absent						1/Qp		
7. Sample IDs:	Listed / Not Listed						1		
,				,	<del></del>		*	<u>-</u>	
8. Sample Condition:	on Chain-of-Custody Intak / Broken* /						21	<u> </u>	
· · · · · · · · · · · · · · · · · · ·					(0,		<del>P +</del>		
9. Does information on	Leaking*					<del>رفا</del>	<del>/                                    </del>		
traffic reports and	chain-of-custody,	<u> </u>			× 1	31			
traffic reports and sa agree?				34	-				
Sample received within	Yes / No*		-		<del></del>				
nold time?									
	Yes / No*			1					
1. Adequate sample volun	^ _								
received?	(e) / No*			f					
2. Proper preservatives us	ed? (e)s / No*		· /.	<u> </u>			<u> </u>		
3. Trip Blank / Temp Blank	Received?.								
(circle which, if yes)	(es)/No*				·				
4. Read Temp:	_4.8°C	7							
Corrected Temp:	V								
Is corrected temp 4 +/-2	2°C? Yesy No**		<del>//</del>						The state of the s
cceptance range for samples req	luiring thermal pres \								
Exception (if any): METAL	S / DFF ON ICF	<del>/-</del>							
or Problem COC		<del>-/- -</del>							
Commence and the second	ond have been been property to the contract of	Land -	A SECURE OF WAS ASSESSED ON THE SECURE OF TH	- Nacional de la company		$\dashv$			
SRL Revision 8 Replaces Rev 7 (07/19/05)		*IF CIRCLE	D, CONTACT PROJECT	MANAGER ANI	D ATTACH	RFC	OBDOFF	CCOLUTIO	
Effective 09/13/06			•		,			Pag Di UUUCE	1 1 .

Page \_\_\_

# Atlantic Richfield Company

A BP affiliated company

**Chain of Custody Record** 

Project Name:

ARCO 6113

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 6113

State or Lead Regulatory Agency: Requested Due Date (mm/dd/yy):

On-site Time: 10400 Temp: Off-site Time: 1140 Temp; Sky Conditions: DYERCHET Meteorological Events: Wind Speed: Direction:

.ab Name: TestAmerica BP/AR Facility No.: 6113 Consultant/Contractor: Address: 885 Jarvis Drive Stratus Environmental, Inc. BP/AR Facility Address: 785 E. Stanley Blvd., Livermore 3330 Cameron Park Drive, Suite 550 Address: Morgan Hill, CA 95937 Site Lat/Long: Cameron Park, CA 95682 Lab PM: Lisa Race California Global ID No.: T0600100111 Consultant/Contractor Project No.: Tele/Fax: 408-782-8156 408-782-6308 (fax) E6113-04 Enfos Project No.: G0C54-0015 Consultant/Contractor PM: BP/AR PM Contact: Paul Supple Jay Johnson Provision or OOC (cîrcle one) Provision Tele/Fax: (530) 676-6000 / (530) 676-6005 Address: 2010 Crow Canyon Place, Suite 150 Phase/WBS: 04-Monitoring Report Type & QC Level: San Ramon, CA Level 1 with EDF Sub Phase/Task: 03-Analytical E-mail EDD To: shaves@stratusinc.net Tele/Fax: 925-275-3506 Cost Element: 01-Contractor labor Invoice to: Atlantic Richfield Co. ab Bottle Order No: Matrix 8260 Preservative Requested Analysis GRO/BTEX/Oxy\* Sample Point Lat/Long and Water/Liquid Item Time Comments Unpreserved Sample Description Soil/Solid No. Laboratory No. Methanol 2-DCA H<sub>2</sub>SO<sub>4</sub> HINO, Ethanol \*Oxy= Air M000845 Ï MTBE, TAME, ETBE, DIPE, TBA ORO MW-4 9730 041907 3 X X 2 MW-6 1036 02 3 3 MW-7 5441 03 3 X MW-11 4 04 0604 3 x X 5 MW-12 05 <u>V555</u> X 6 MW-13 13757 06 3 7 VW-1 1128 x X TB-6113-04**∮**92007 0500 081 10 HOLD Sampler's Name: Zalutka lince Relinquished By / Affiliation Date Time Sampler's Company: Accepted By / Affiliation STRATUS Date Time 1343 04.19.0 Shipment Date: 4-19-07 971 54 4-198 Shipment Method: 160 STRATUS 4/12 4/19/07 Shipment Tracking No: JULIENG. 1955 Special Instructions: Please cc results to rmiller@broadbentinc.com Custody Seals In Place: Yes/No Temp Blank: (Fes)/No Cooler Temp on Receipt: 4. O(F)C Trip Blank: (es)/No

MS/MSD Sample Submitted: Yes / No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (613 REC. BY (PRINT) JULIE NG. WORKORDER: MOX9345  CIRCLE THE APPROPRIATE RESPONSE		TIME REC'D AT LAB:  DATE LOGGED IN:		- 4/19 - 195 - 4-23	For Regulatory Purposes? DRINKING WATER YES INO WASTE WATER YES INO				
Valenting of the second of the		LAB SAMPLE#	CTIENT ID	CONTAINER DESCRIPTION	PRESER	pН	SAMPLE	,	REMARKS:
Custody Seal(s)	Present / Absert Intact / Broken*			1000	VAIIVE	-0-1111210	MATRIX	SAMPLED	CONDITION (ETC.)
2. Chain-of-Custody	P(es)ent / Absent*								
<ol><li>Traffic Reports or</li></ol>									<del>-/</del>
Packing List:	Present / Absent			1					<del>/</del>
4. Airbill:	Airbill / Sticker								
	Present / Absent				·		·	1/	
5. Airbill #;				1			1		
. Sample Labels:	Present / Absent		· · · · · · · · · · · · · · · · · · ·				. 32/		·
. Sample IDs:	Listed / Not Listed		······································						· · · · · · · · · · · · · · · · · · ·
	on Chain-of-Custody		······································				/		
. Sample Condition:	Iritaet / Broken* /			ļ		$-\mathcal{A}$	20		
	Leaking*		······································				الو		
Does information on o	hain-of-custody,			<u>-</u>	<del>\(\frac{1}{2}\)</del>	SP,			
traffic reports and sa				<u>\</u>	XV.				
agree?	Yes / No*								
Sample received within									<u> </u>
hold time?	Ye₃ / No*			·/					
Adequate sample volum				/					
received?	(e) / No*								
Proper preservatives us	ed? (e)s / No*						.		
Trip Blank / Temp(Blank	Received?								
(circle which, if yes)	(eg/No*				•				
Read Temp:	4.8°C								
Corrected Temp:	V								
ls corrected temp 4 +/-2	°C? Yesy No**		/					<del>-</del>	
eptance range for samples requ	siring thermal pres.)								· · · · · · · · · · · · · · · · · · ·
ception (if any): METAL or Problem COC	S / DFF ON ICE				<u> </u>			<del></del>	
0r Problem COC	<del></del>	— <u>,                                    </u>		ļ	· [	1		<del></del>	· · · · · · · · · · · · · · · · · · ·

Replaces Rev 7 (07/19/05) Effective 09/13/06

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

## APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

# **Electronic Submittal Information**

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

**Confirmation Number:** 7196444630

**Date/Time of Submittal:** 7/11/2007 1:59:17 PM

Facility Global ID: T0600100111 Facility Name: ARCO #06113

**Submittal Title: 2Q07 GW Monitoring** Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.							
	SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000393						
CONF #TITLEQUAR71964446302Q07 GW MonitoringQ2 2SUBMITTED BYSUBMIT DATE 7/11/2007STATUS PENDING RE	007						
# FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES  METHOD QA/QC REPORT	7 5 3 WATER						
	x,8260TPH Y Y						
QA/QC FOR 8021/8260 SERIES SAMPLES  TECHNICAL HOLDING TIME VIOLATIONS  METHOD HOLDING TIME VIOLATIONS  LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT  LAB BLANK DETECTIONS  DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?  - LAB METHOD BLANK  - MATRIX SPIKE  - MATRIX SPIKE DUPLICATE  - BLANK SPIKE  - SURROGATE SPIKE	0 0 0 0 V N N Y						
WATER SAMPLES FOR 8021/8260 SERIES  MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-13	5% Y						

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%

BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%

SURROGATE SPIKES % RECOVERY BETWEEN 85-115%

#### SOIL SAMPLES FOR 8021/8260 SERIES MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a FIELD QC SAMPLES <u>SAMPLE</u> COLLECTED <u>DETECTIONS > REPDL</u> QCTB SAMPLES Ν 0 QCEB SAMPLES Ν 0 QCAB SAMPLES Ν 0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

# **Electronic Submittal Information**

Main Menu | View/Add Facilities | Upload EDD | Check EDD

#### **UPLOADING A GEO\_WELL FILE**

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

Submittal Title: 2Q07 GEO\_WELL 6113

Facility Global ID: T0600100111
Facility Name: ARCO #06113

<u>Submittal Date/Time:</u> 7/11/2007 2:01:06 PM

Confirmation Number: 7965148031

**Back to Main Menu** 

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CONTACT SITE <u>ADMINISTRATOR</u>.