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10:20 am, Jan 12, 2011
Alameda County
Environmental Health

January 11, 2011

Mr. Mark Detterman
Alameda County Health
Care Services Agency
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577

Subject: **Second Semi-Annual 2010 Groundwater Monitoring Report, 17715 Mission Boulevard, Hayward, California**

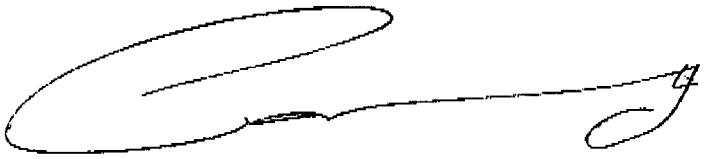
Dear Mr. Detterman:

Enclosed please find a copy of Second Semi-Annual 2010 Groundwater Monitoring Report dated December 28, 2010 for the subject property. With my authorization, the work was performed by Sierra Environmental, Inc. (Sierra).

I Declare, under penalty of perjury, that the information and/or recommendations contained in the report is true and correct to the best of my knowledge.

Please call me at (925) 383-5131 if you have questions.

Sincerely Yours,



Paul Garg
ABE Petroleum LLC

SECOND SEMI-ANNUAL 2010 GROUNDWATER MONITORING

ABE Petroleum LLC
17715 Mission Boulevard
Hayward, California 94539

Prepared for

Mr. Paul Garg
ABE Petroleum LLC

Prepared by

Sierra Environmental, Inc.

December 28, 2010
Project 03-103.00

Sierra Environmental, Inc.
Environmental Consultants

December 28, 2010
Project 03-103.00

Mr. Paul Garg
ABE Petroleum LLC
33090 Mission Boulevard
Union City, California 94587

Subject: **Report for Second Semi-Annual 2010 Groundwater Monitoring, ABE Petroleum LLC, 17715 Mission Boulevard, Hayward, California**

Dear Mr. Garg:

Sierra Environmental, Inc. (Sierra) is pleased to present this report summarizing the results for the second semi-annual 2010 groundwater monitoring at the subject location, hereafter, referred to as Site. Figure 1 shows the Site location. The groundwater monitoring was concurred by Alameda County Health Care Services (ACHCS) in a letter dated February 16, 2000, as result of gasoline impact to groundwater beneath the Site.

On December 1, 2010, Sierra obtained and recorded groundwater data, and collected groundwater samples from five (5) groundwater monitoring wells at and near the Site for chemical analysis. Sierra submitted the samples to Accutest Laboratories (Accutest) for chemical analysis. Accutest is a State-certified analytical laboratory (08258CA).

BACKGROUND

Please refer to Appendix A for Site's background information.

980 W. Taylor Street
San Jose, CA 95126
Phone (408) 971-6758
Fax (408) 971-6759

GROUNDWATER MONITORING

On December 1, 2010, Sierra performed the second semi-annual 2010 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1, MW2, MW3, MW6, and MW7 (Figure 2) using an electronic sounder. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.04' to 23.96' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

MW4 and MW5 were inaccessible due to route 238 expansion project.

Sierra's field personnel purged the wells using bailers. pH, temperature, and electrical conductivity of groundwater were recorded during the purging activities to affirm that groundwater in the wells have stabilized. After completion of the purging, groundwater samples MW-1, MW-2, MW-3, MW-6, and MW-7 were collected from the wells. After collection, the groundwater from each well was transferred into clean volatile organic analysis vials. The vials were sealed with Teflon-septum screw caps, labeled, placed on ice in a cooler, and delivered to Accutest with chain-of-custody documentation.

All sampling and measurement equipment were washed with Liqui-Nox® (a phosphate free laboratory detergent), and rinsed with tap water at each measurement and sampling interval. Purged and wash water was stored in 55-gallon drums at a designated location at the Site. Sierra's quality assurance/quality control (QA/QC) protocol is presented in Appendix B.

CHEMICAL ANALYSIS

The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHG) using the United States Environmental Protection Agency (EPA) GC-MS/8260B method. The samples were also analyzed for benzene, toluene, ethyl benzene, total xylenes (BTEX), and fuel oxygenates also using EPA method 8260B. Copies of certified analytical results and chain-of-custody documentation are presented in Appendix C. Copies of the field notes are presented in Appendix D.

ANALYTICAL RESULTS

Table II presents Summary of the analytical results.

CONCLUSION AND RECOMMENDATIONS

No gasoline constituents were detected in offsite monitoring well MW6 and MW7. Concentrations of the gasoline constituents in the groundwater samples collected from the onsite wells have slightly decreased during this monitoring event, compared to the 1st semi annual 2010 groundwater monitoring event. Sierra recommends continuing the semi-annual groundwater monitoring at the Site in 2011.

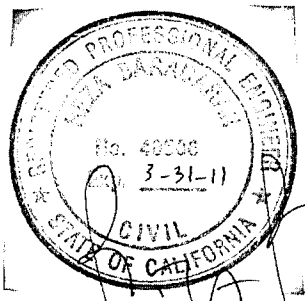
In its subsurface investigation report dated September 29, 2009, Sierra has recommended initiating remedial action by performing a 5-days high vacuum dual phase extraction (DPE) test at the Site. Sierra recommends to proceed with DPE test and follow up remedial work to conclude corrective actions and obtain case closure for the Site.

LIMITATIONS

The content and conclusion provided by Sierra in this report are based on information collected during its assessment/monitoring, which include, but are not limited to field observations and analytical results for the groundwater samples collected at the Site. Sierra assumes that the samples collected and laboratory results are reasonably representative of the whole Site, which may not be the case at unsampled areas. This assessment/monitoring was performed in accordance with generally accepted principles and practices of environmental engineering and assessment in Northern California at the time of the work. This report presents our professional opinion based on our findings, technical knowledge, and experience working on similar projects. No warranty, either expressed or implied, is made. The conclusions presented are based on the analytical results and current regulatory requirements. We are not responsible for the impact of any changes in environmental standards or regulations in the future.

Please feel welcome to call us if you have questions.

Very Truly Yours,
Sierra Environmental, Inc.



12/31/2010

Reza Baradaran, PE, GE
Principal

Mitch Hajiaghai, REA II, CAC
Principal

Attachments:

Table I	-	Groundwater Elevation Data
Table II	-	Analytical Results for Groundwater Samples
Figure 1	-	Site Location Map
Figure 2	-	Groundwater Monitoring Well Locations
Appendix A	-	Background Information
Appendix B	-	QA/QC Protocol
Appendix C	-	Certified Analytical Results and Chain-of-Custody Documentation
Appendix D	-	Field Notes

cc: Mr. Mark Detterman ACHCS (1 Copy)

R03-103.00\SecondSemi-Annual2010GW\MH12282010

TABLE I
GROUNDWATER ELEVATION DATA

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to[1] Water (ft)	Water Table[2] Elevation (ft)
MW1	8-18-00	2	99.46	20.32	79.14
	3-30-01			20.30	79.16
	6-22-01			21.91	77.55
	9-20-01			23.56	75.90
	12-27-01			22.59	76.87
	9-24-02			23.69	75.77
	12-17-02			22.75	76.71
	4-2-03			21.15	78.31
	6-12-03			20.64	78.82
	9-29-03			22.95	76.51
	12-04-03			23.70	75.76
	03-09-04			19.80	79.66
	6-24-04			21.44	78.02
	9-09-04			23.30	76.16
	12-21-04			22.92	76.54
	3-16-05			18.99	80.47
	6-09-05			20.02	79.44
	9-22-05			20.69	78.77
	12-07-05			21.90	77.56
	3-10-06			17.85	81.61
	6-7-06		59.50	15.91	43.59
	9-11-06			18.60	40.90
	12-13-06			20.05	39.45
	3-12-07			19.47	40.03
	6-6-07			21.11	38.39
	9-6-07			22.61	36.89
	12-14-07			23.50	36.00
	3-13-08			20.09	39.41
	6-13-08			22.08	37.42
	09-09-08			23.57	35.93
	12-12-08			24.42	35.08
	03-12-09			21.22	38.28
	06-04-09			22.52	36.98
	12-03-09			24.18	35.32
	06-02-10			19.85	39.65
	12-01-10			22.73	36.77

TABLE I
GROUNDWATER ELEVATION DATA
(CONTINUED)

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)
MW2	8-18-00	2	100.58	21.55	79.03
	3-30-01			21.55	79.03
	6-22-01			23.15	77.43
	9-20-01			24.78	75.80
	12-27-01			23.82	76.76
	9-24-02			24.89	75.69
	12-17-02			23.99	76.59
	4-2-03			22.32	78.26
	6-12-03			21.84	78.74
	9-29-03			24.15	76.43
	12-04-03			24.91	75.67
	03-09-04			21.05	79.53
	6-24-04			22.95	77.63
	9-09-04			24.55	76.03
	12-21-04			24.21	76.37
	3-16-05			20.29	80.29
	6-09-05			21.68	78.90
	9-22-05			21.98	78.60
	12-7-05			23.22	77.36
	3-10-06			19.15	81.43
	6-7-06		60.61	17.31	43.30
	9-11-06			19.99	40.62
	12-13-06			21.48	39.13
	3-12-07			20.71	39.90
	6-6-07			22.33	38.28
	9-6-07			23.85	36.76
	12-14-07			24.71	35.90
	3-13-08			21.34	39.27
	6-13-08			23.29	37.32
	09-09-08			24.82	35.79
	12-12-08			25.65	34.96
	03-12-09			22.45	38.16
	06-04-09			23.68	36.93
	12-03-09			25.33	35.28
	06-02-10			21.01	39.60
	12-01-10			23.96	36.65

TABLE I
GROUNDWATER ELEVATION DATA
(CONTINUED)

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)
MW3	8-18-00	2	99.69	20.68	79.01
	3-30-01			20.68	79.01
	6-22-01			22.31	77.38
	9-20-01			23.92	75.77
	12-27-01			22.95	76.74
	9-24-02			24.03	75.66
	12-17-02			23.09	76.60
	4-2-03			21.46	78.23
	6-12-03			20.99	78.70
	9-29-03			23.30	76.39
	12-04-03			24.05	75.64
	03-09-04			20.20	79.49
	6-24-04			22.11	77.58
	9-09-04			20.20	79.49
	12-21-04			23.35	76.34
	3-16-05			19.43	80.26
	6-09-05			20.47	79.22
	9-22-05			21.13	78.56
	12-7-05			22.36	77.33
	3-10-06			18.30	81.39
	6-7-06		59.73	16.47	43.26
	9-11-06			19.13	40.60
	12-13-06			20.66	39.07
	3-12-07			19.88	39.85
	6-6-07			21.48	38.25
	9-6-07			22.99	36.74
	12-14-07			23.85	35.88
	3-13-08			20.47	39.26
	6-13-08			22.43	37.30
	09-09-08			23.98	35.75
	12-12-08			24.91	34.82
	03-12-09			21.57	38.16
	06-04-09			22.82	36.91
	12-03-09			24.49	35.24
	06-02-10			20.16	39.57
	12-01-10			23.07	36.66

TABLE I
GROUNDWATER ELEVATION DATA
(CONTINUED)

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)
MW4	6-7-06	2	59.29	15.71	43.58
	9-11-06			18.40	40.89
	12-13-06			19.64	39.65
	3-12-07			19.13	40.16
	6-6-07			N/A[3]	N/A
	9-6-07			N/A	N/A
	12-14-08			N/A	N/A
	3-13-08			N/A	N/A
	6-13-08			N/A	N/A
	09-09-08			N/A	N/A
	12-12-08			N/A	N/A
	03-12-09			N/A	N/A
	06-04-09			N/A	N/A
	12-03-09			N/A	N/A
	06-02-10			N/A	N/A
	12-01-10			N/A	N/A
MW5	6-7-06	2	56.31	13.35	42.96
	9-11-06			15.99	40.32
	12-13-06			17.45	38.86
	3-12-07			16.68	39.63
	6-6-07			N/A	N/A
	9-6-07			N/A	N/A
	12-14-08			N/A	N/A
	3-13-08			N/A	N/A
	6-13-08			N/A	N/A
	09-09-08			N/A	N/A
	12-12-08			N/A	N/A
	03-12-09			N/A	N/A
	06-04-09			N/A	N/A
	12-03-09			N/A	N/A
	06-02-10			N/A	N/A
	12-01-10			N/A	N/A

TABLE I
GROUNDWATER ELEVATION DATA
(CONTINUED)

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)
MW6	6-7-06	2	56.63	13.64	42.99
	9-11-06			16.25	40.38
	12-13-06			17.72	38.91
	3-12-07			16.95	39.68
	6-6-07			18.47	38.16
	9-6-07			19.96	36.67
	12-14-07			20.81	35.82
	3-13-08			17.46	39.17
	6-13-08			19.38	37.25
	09-09-08			20.96	35.67
	12-12-08			21.81	34.82
	03-12-09			18.58	38.05
	06-04-09			19.77	36.86
	12-03-09			21.45	35.18
	06-02-10			17.13	39.50
	12-01-10			20.04	36.59
MW7	6-7-06	2	57.50	14.50	43.00
	9-11-06			17.12	40.38
	12-13-06			18.58	38.92
	3-12-07			17.81	39.69
	6-6-07			19.32	38.18
	9-6-07			20.87	36.63
	12-14-07			21.30	36.20
	3-13-08			18.34	39.16
	6-13-08			20.15	37.35
	09-09-08			21.31	36.19
	12-12-08			22.29	35.21
	03-12-09			19.45	38.05
	06-04-09			20.36	37.14
	12-03-09			22.13	35.37
	06-02-10			18.01	39.49
	12-01-10			20.89	36.61

1. Depths to groundwater were measured to the top of the well casings
2. Water table elevations were measured in relation to mean sea level (MSL)
3. N/A = Not Accessible

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Sample ID	Sample Date	Sample Location	TPHG[1] µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE[2] µg/L
MW-1	8-18-00	MW1	280,000	10,000	16,000	11,000	49,000	4,000
*	3-30-01		98,000	8,600	14,000	6,300	26,000	7,600
*	6-22-01		110,000	7,500	12,000	5,700	24,000	3,800
*	9-20-01		93,000	8,700	11,000	6,300	27,000	4,600
*	12-27-01		140,000	7,700	11,000	6,500	28,000	7,700
*	9-24-02		110,000	4,600	4,000	4,000	18,000	3,400
*	12-17-02		110,000	6,600	6,700	5,400	23,000	2,900
*	4-2-03		89,000	4,800	6,000	4,600	20,000	5,900
*	6-12-03		69,000	4,100	4,300	3,900	17,000	4,700
*	9-29-03		96,000	7,000	7,700	5,100	22,000	6,200
*	12-04-03		110,000	5,800	5,900	4,300	18,000	4,500
*	03-09-04		130,000	5,900	9,700	4,900	22,000	6,000
*	6-24-04		48,000	5,800	7,500	4,000	18,000	4,000
*	9-09-04		64,000	4,800	7,500	4,500	19,000	2,200
*	12-21-04		53,000	4,800	6,000	3,600	15,000	2,600
*	3-16-05		82,000	4,000	8,600	3,900	18,000	4,300
*	6-09-05		52,000	3,600	6,400	3,300	17,000	3,500
*	9-22-05		62,000	3,500	5,400	3,900	17,000	2,100
*	12-7-05		40,000	3,300	7,500	3,700	18,000	2,500
*	3-10-06		53,000	3,600	6,900	4,000	18,000	3,300
*	6-07-06		57,000	4,200	12,000	3,700	16,000	3,900
*	9-11-06		120,000	3,600	9,500	5,200	23,000	3,000
*	12-13-06		21,000	2,600	8,400	4,300	20,000	1,200
*	3-12-07		96,000	2,300	5,600	5,900	26,000	1,400
*	6-6-07		58,000	2,000	3,400	3,900	16,000	1,500
*	9-6-07		84,000	3,000	4,300	6,000	25,000	2,300
*	12-14-07		55,000	2,500	2,400	4,400	18,000	1,900
*	3-13-08		80,000	2,400	5,400	4,700	22,000	2,000
*	6-13-08		87,000	2,800	2,200	5,000	21,000	3,100
*	09-09-08		34,400	2,040	1,120	2,390	10,100	1,890
*	12-12-08		91,000	2,110	1,240	3,660	17,200	1,560
*	03-12-09		92,000	1,510	1,240	2,630	16,500	1,040
*	06-04-09		61,200	1,780	711	3,840	14,600	1,580
*	12-03-09		66,300	2,300	346	4,100	15,400	2,690
*	06-02-10		63,000	2,100	1,300	2,600	13,600	2,500
*	12-01-10		54,000	2,520	180	4,240	10,200	2,230

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
(CONTINUED)

Sample ID	Sample Date	Sample Location	TPHG µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Xylenes µg/L	MTBE µg/L
MW-2	8-18-00	MW2	290,000	3700	990	7,300	26,000	ND[3]
*	3-30-01		47,000	3,200	470	4,500	13,000	3,100
*	6-22-01		57,000	2,500	350	4,200	12,000	1,800
*	9-20-01		42,000	2,300	230	4,300	12,000	2,200
*	12-27-01		70,000	2,900	390	4,800	14,000	2,400
*	9-24-02		110,000	1,600	200	3,400	9,100	2,500
*	12-17-02		66,000	2,400	340	4,600	13,000	1,900
*	4-2-03		29,000	1,000	130	2,300	5,100	2,000
*	6-12-03		8,700	380	52	790	2,000	2,200
*	9-29-03		52,000	1,700	200	4,500	9,800	2,300
*	12-04-03		66,000	1,500	210	4,500	9,200	1,900
*	03-09-04		61,000	1,500	2,000	4,200	8,500	2,200
*	6-24-04		29,000	1,200	72	3,100	6,000	2,100
*	9-09-04		37,000	1,600	110	4,000	8,500	3,100
*	12-21-04		27,000	1,400	84	3,100	5,400	3,200
*	3-16-05		54,000	1,700	140	4,500	8,900	4,000
*	6-09-05		2,800	420	ND[3]	180	51	930
*	9-22-05		33,000	1,400	ND	3,400	5,700	2,200
*	12-7-05		20,000	1,600	130	3,400	6,000	3,000
*	3-10-06		34,000	2,100	170	4,200	7,500	4,400
*	6-07-06		29,000	2,400	250	3,600	5,100	3,200
*	9-11-06		32,000	1,100	140	2,400	3,500	1,600
*	12-13-06		36,000	1,400	220	3,400	4,900	1,900
*	3-12-07		36,000	1,200	250	3,800	5,700	1,800
*	6-6-07		24,000	1,100	170	3,000	4,200	1,400
*	9-6-07		44,000	1,600	290	5,700	6,800	1,900
*	12-14-07		28,000	1,200	160	3,600	3,700	1,500
*	3-13-08		47,000	1,100	190	5,800	7,500	1,200
*	6-13-08		40,000	950	170	4,600	4,800	1,400
*	09-09-08		20,300	706	121	2,680	2,580	1,180
*	12-12-08		48,000	826	114	4,050	4,250	1,610
*	03-12-09		43,000	686	128	2,740	4,520	974
*	06-04-09		20,600	440	94.3	2,770	2,270	717
*	12-03-09		26,600	372	29.7	3,250	2,250	608
*	06-02-10		21,000	130	13	2,400	1,500	160
*	12-01-10		14,300	127	ND	1,890	697	206

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
(CONTINUED)

Sample ID	Sample Date	Sample Location	TPHG µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-3	8-18-00	MW3	46,000	3,200	550	3,700	14,000	2,200
*	3-30-01		30,000	3,300	340	2,800	9,100	4,700
*	6-22-01		35,000	4,000	340	2,900	7,600	4,100
*	9-20-01		30,000	3,800	260	2,500	6,600	5,300
*	12-27-01		39,000	4,400	340	3,000	6,700	5,500
*	9-24-02		53,000	4,100	270	3,100	6,600	6,400
*	12-17-02		40,000	3,600	240	2,200	5,700	5,200
*	4-2-03		24,000	2,000	130	1,800	3,300	3,000
*	6-12-03		26,000	2,700	180	2,000	4,200	5,500
*	9-29-03		39,000	4,000	220	3,200	5,300	4,800
*	12-04-03		40,000	3,200	180	2,200	4,300	4,400
*	03-09-04		39,000	3,100	160	2,100	4,400	4,000
*	6-24-04		21,000	3,000	110	2,300	3,800	3,400
*	9-09-04		26,000	4,100	140	2,200	4,300	6,000
*	12-21-04		20,000	3,400	99	1,700	2,900	6,400
*	3-16-05		35,000	1,800	78	1,900	2,600	4,000
*	6-09-05		2,000	55	ND	120	30	150
*	9-22-05		17,000	2,000	69	1,500	1,900	3,500
*	12-7-05		11,000	1,800	62	1,500	1,700	2,300
*	3-10-06		9,100	1,100	24	990	810	1,300
*	6-07-06		3,000	440	16	180	450	320
*	9-11-06		17,000	1,300	38	1,000	1,600	690
*	12-13-06		13,000	1,200	ND	1,000	1,300	520
*	3-12-07		120,000	10,000	210	11,000	11,000	ND
*	6-6-07		13,000	1,200	19	1,100	1,100	590
*	9-6-07		22,000	1,900	32	2,000	1,600	1,000
*	12-14-07		16,000	1,400	23	1,200	1,300	600
*	3-13-08		10,000	870	ND	1,000	670	420
*	6-13-08		15,000	1,300	27	1,300	1,200	660
*	09-09-08		9,030	890	<10	695	372	460
*	12-12-08		26,000	1,200	15.4	995	875	423
*	03-12-09		15,000	759	18.3	704	1,010	300
*	06-04-09		11,500	1,250	34.9	821	1,040	422
*	12-03-09		19,500	2250	25.1	1330	1,050	577
*	06-02-10		8,800	1,100	9.7	200	530	320
*	12-01-10		7,910	1,020	ND	358	128	257

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
(CONTINUED)

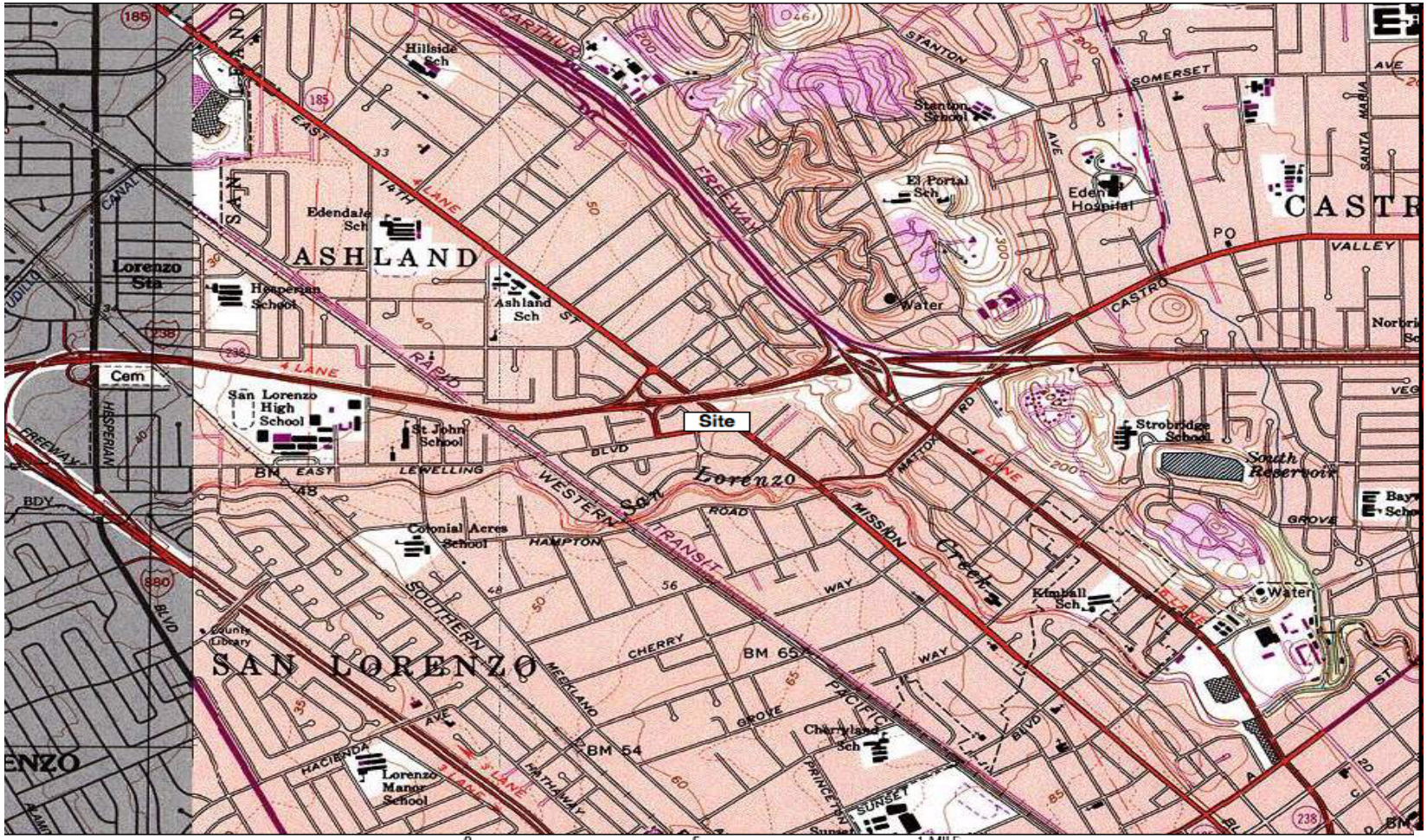
Sample ID	Sample Date	Sample Location	TPHG µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-4	6-7-06	MW4	<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-11-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-13-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-12-07		<25	<0.5	<0.5	<0.5	<0.5	<1
	6-6-07		NS[4]	NS	NS	NS	NS	NS
	9-6-07		NS	NS	NS	NS	NS	NS
	12-14-07		NS	NS	NS	NS	NS	NS
	3-13-08		NS	NS	NS	NS	NS	NS
	6-13-08		NS	NS	NS	NS	NS	NS
	09-09-08		NS	NS	NS	NS	NS	NS
	12-12-08		NS	NS	NS	NS	NS	NS
	03-12-09		NS	NS	NS	NS	NS	NS
	06-04-09		NS	NS	NS	NS	NS	NS
	12-03-09		NS	NS	NS	NS	NS	NS
	06-02-10		NS	NS	NS	NS	NS	NS
	12-01-10		NS	NS	NS	NS	NS	NS
MW-5	6-7-06	MW5	<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-11-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-13-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-12-07		<25	<0.5	<0.5	<0.5	<0.5	<1
	6-6-07		NS	NS	NS	NS	NS	NS
	9-6-07		NS	NS	NS	NS	NS	NS
	12-14-07		NS	NS	NS	NS	NS	NS
	3-13-08		NS	NS	NS	NS	NS	NS
	6-13-08		NS	NS	NS	NS	NS	NS
	09-09-08		NS	NS	NS	NS	NS	NS
	12-12-08		NS	NS	NS	NS	NS	NS
	03-12-09		NS	NS	NS	NS	NS	NS
	06-04-09		NS	NS	NS	NS	NS	NS
	12-03-09		NS	NS	NS	NS	NS	NS
	06-02-10		NS	NS	NS	NS	NS	NS
	12-01-10		NS	NS	NS	NS	NS	NS

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
(CONTINUED)

Sample ID	Sample Date	Sample Location	TPHG µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-6	6-7-06	MW6	<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-11-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-13-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-12-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	6-6-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-6-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-14-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-13-08		<25	<0.5	<0.5	<0.5	<0.5	<1
*	6-13-08		<25	<0.5	<0.5	<0.5	<1	<1
*	09-09-08		<25	<0.3	<0.5	<0.3	<0.7	<0.5
*	12-12-08		<50	<0.5	<0.5	<0.5	<1.5	<0.5
*	03-12-09		<50	<0.5	<0.5	<0.5	<1.5	<0.5
*	06-04-09		<25	<0.3	<0.5	<0.3	<0.7	<0.5
*	12-03-09		<25	<0.3	<0.5	<0.3	<0.7	<0.5
*	06-02-10		<50	<0.5	<0.5	<0.5	<0.5	<0.5
*	12-01-10		<25	<0.3	<0.5	<0.3	<0.7	<0.5
MW-7	6-7-06	MW7	<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-11-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-13-06		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-12-07		27	<0.5	<0.5	<0.5	<0.5	<1
*	6-6-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	9-6-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	12-14-07		<25	<0.5	<0.5	<0.5	<0.5	<1
*	3-13-08		<25	<0.5	<0.5	<0.5	<0.5	<1
*	6-13-08		<25	<0.5	<0.5	<0.5	<1	<1
*	09-09-08		<25	<0.5	<0.5	<0.5	<1	<1
*	12-12-08		<50	<0.5	<0.5	<0.5	<1.5	<0.5
*	03-12-09		<50	<0.5	<0.5	<0.5	<1.5	<0.5
*	06-04-09		<25	<0.3	<0.5	<0.3	<0.7	<0.5
*	06-02-10		<50	<0.5	<0.5	<0.5	<0.5	<0.5
*	12-01-10		<25	<0.3	<0.5	<0.3	<0.7	<0.5

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. MTBE = Methyl Tertiary Butyl Ether
3. ND = Below Laboratory Detection Limit
4. NS = Not Sampled

* The Sample was analyzed for Fuel Oxygenates using EPA Method 8260B. Analytical result is for MTBE



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

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Environmental Consultants

980 W. Taylor Street, San Jose, CA 95126
Phone [408] 971-6758 • Fax [408] 971-6759

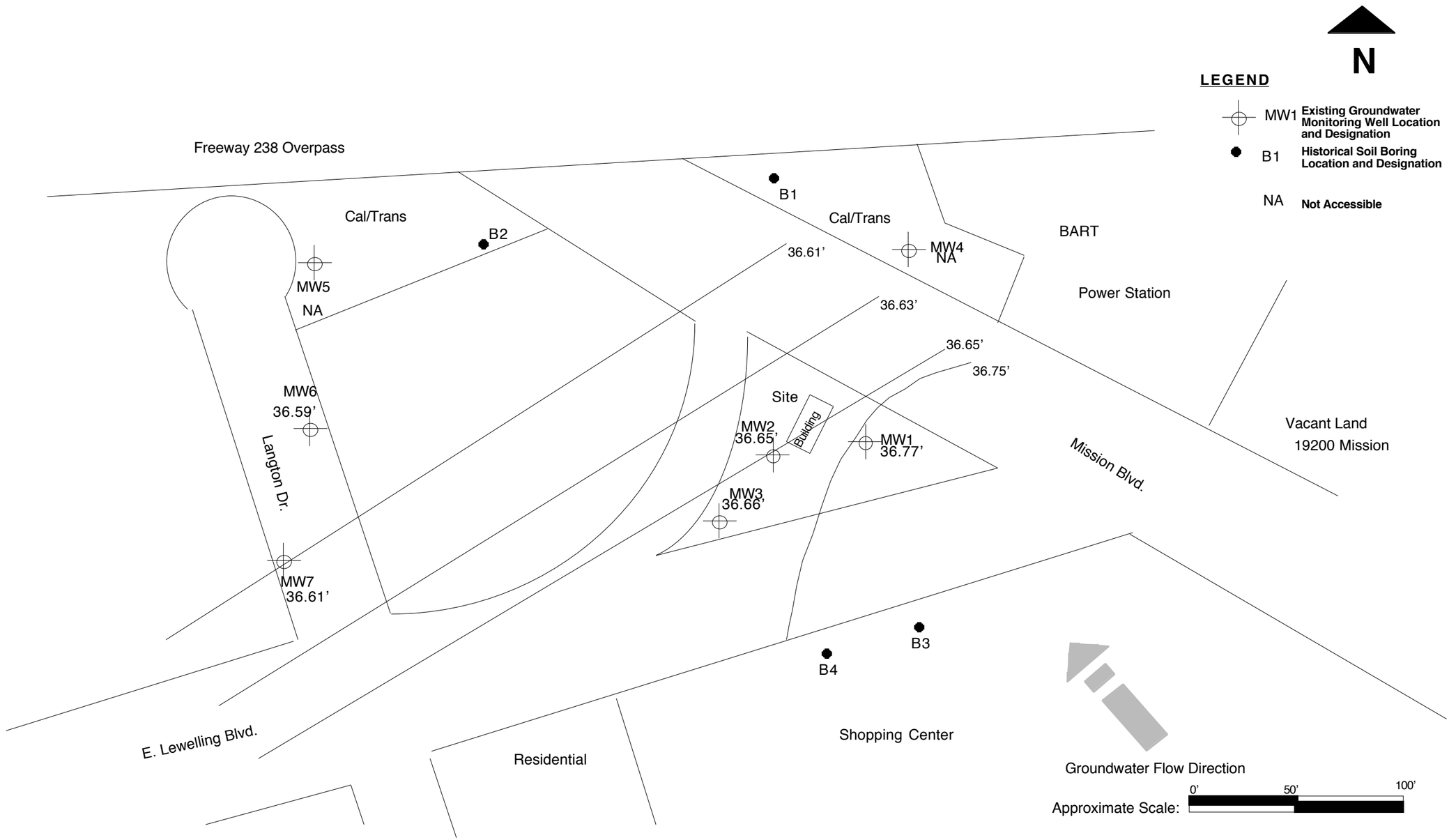
SITE LOCATION MAP

Second Semi-Annual 2010 Groundwater Monitoring
ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE
1

Dec. 28, 2010
Project 03-103.00



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On-Site & Off-Site Monitoring Well and Boring Locations

Seond Semi-Annual 2010 Groundwater Monitoring
ABE Petroleum LLC

17715 Mission Boulevard·Hayward · California

FIGURE
2
Dec. 28, 2010
Project 03-103.00

Appendix A
BACKGROUND INFORMATION

BACKGROUND

On September 16, 1997, Balch Petroleum Contractors & Builders, Inc. (Balch) of Milpitas, California, removed one 2,000-gallon, two 6,000-gallon, one 10,000-gallon single-wall steel gasoline, and one 500-gallon single-wall steel waste oil USTs from the Site. Former UST locations are shown in Figure A of this appendix.

No hole or damage was observed in the tanks. No groundwater was encountered in the tank excavations. After UST removal, Sierra collected soil samples from the tank excavations for chemical analysis.

Up to 2,300 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHG) was detected in the soil samples collected from beneath the tanks at approximately 14 feet below ground surface (bgs). The soil sample locations are shown in Figure A.

On August 14, 2000, Sierra drilled three exploratory soil borings and converted them to groundwater monitoring well MW1 through MW3. The wells are approximately 35 feet deep. Sierra collected soil and groundwater samples from the borings/wells for chemical analysis. The analytical results showed up to 720 ppm TPHG, 2.2 ppm benzene, and 3.4 ppm methyl tertiary butyl ether (MTBE) in the soil samples. Up to 290000 ppb TPHG, 10000 ppb benzene, and 4300 ppb MTBE were detected in the groundwater samples. Gasoline constituents were detected in groundwater samples collected from all three monitoring wells. Groundwater monitoring well locations are shown on Figure 2.

Starting March 30, 2001, Sierra performed quarterly groundwater monitoring at the Site. The field and analytical results are presented in Table I and II.

On May 4, 2006, Sierra retained services of Vironex Environmental Services (Vironex) to drill soil boring B1 through B4 at the Jack In The Box and Cal/Trans properties. Sierra collected grab groundwater samples from the borings for chemical analysis. Up to 370 μg/l total petroleum hydrocarbons as gasoline (TPHG), 16 μg/l toluene, 15 μg/l ethylbenzene, and 100 μg/l xylenes were detected in the water sample collected from the borings (B3 and B4) advanced at the Jack In The Box property. No benzene or MTBE was detected in water samples collected at this property. 3.2 μg/l MTBE was detected in the water samples collected from the borings advanced at the Cal/Trans properties. The MTBE was detected in boring B2 located within 300 feet northwest at hydraulic down gradient of the Site. On May 10 and 11, 2006, Sierra retained services of Hew Drilling Company, Inc. (Hew) to construct 4 groundwater monitoring wells (MW4 through MW7) at the CalTrans properties, and Langton Drive. After the well construction, Sierra had the wellheads surveyed, developed the wells, and collected groundwater samples from the wells for chemical analysis. No gasoline constituents were detected in the groundwater samples collected from the wells. The analytical results for the soil and groundwater samples collected from the boring and the wells suggest the tip of the dissolved MTBE plume in the groundwater is confined within 300 feet northwest of the Site. The length of the dissolved plume of other gasoline

constituents in groundwater were shorter than the MTBE plume. Figure 2 shows the groundwater monitoring well locations.

On September 11, 2006, Sierra started quarterly groundwater monitoring of MW1 through MW7. Table I and II presents the groundwater measurement and analytical data.

On August 27, 28, and 31 2009, Sierra had 9 membrane interface probes [MIP (B1 through B9)] advanced at the Site. The MIPs were extended to 40 feet bgs. Before advancing the MIPs, on August 27, 2009, Sierra had confirmatory soil boring S1 advanced near MW1 to explore depth of first encountered groundwater, and collected soil and groundwater samples for chemical analysis, soil oxygen demand (SOD), permeability, and gradations tests. Soil explored/tested at the Site consisted of silty clay/silty sandy clay to approximately 35 feet bgs and sandy gravel encountered at 35 through 40 feet below ground surface. Groundwater was first encountered in boring S1 at approximately 31 feet bgs and raised to 25 feet bgs.

The MIP results suggest that soil impacted with the gasoline constituents exist from approximately 10 feet bgs to the saturated zone. The horizontal extend of impacted soil is within approximately 25 feet radius of MW1. MIP results depicted higher contaminant concentrations at 20-25 feet and 30-32 feet bgs.

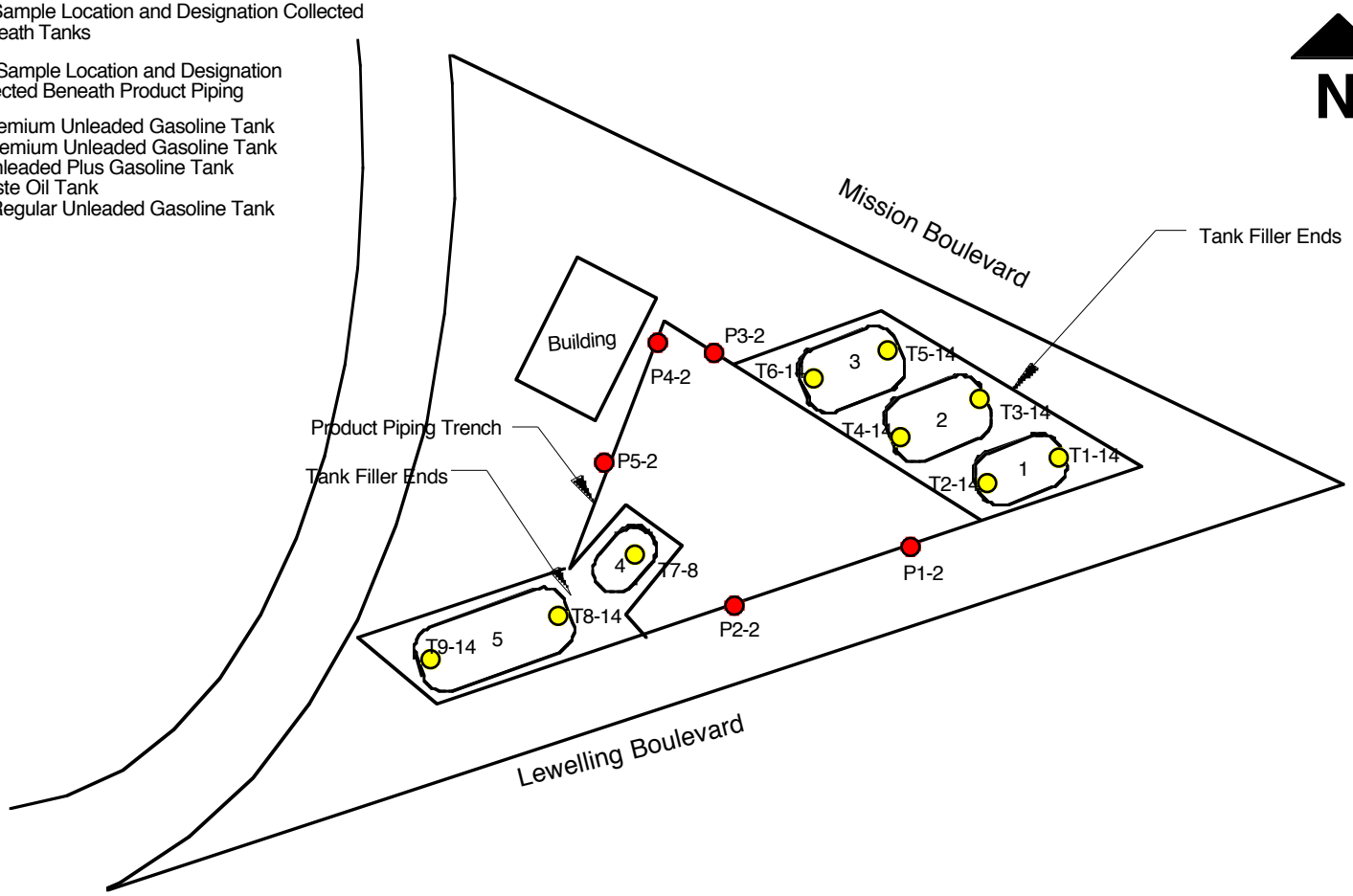
Up to 320,000 μg/kg TPHG, 1170 μg/kg benzene, and 1150 μg/kg MTBE were detected in the soil representing 20 feet bgs in boring S1 (confirmatory boring), at the source area. Also, up to 59,900 μg/l of TPHG, 1680 μg/l benzene, and 893 μg/l MTBE were detected in the grab water collected from boring S1. High/moderate concentrations of gasoline constituents were also detected in grab groundwater samples at all the MIP borings. Summary of the above work was presented in "Remedial Investigation/Feasibility Study" report dated September 29, 2009. The MIP boring locations are shown in Figure B of this Appendix.

LEGEND

T1-14 Soil Sample Location and Designation Collected Beaneath Tanks

P1-2 Soil Sample Location and Designation Collected Beneath Product Piping

1 = 2,000-Gallon Premium Unleaded Gasoline Tank
2 = 6,000-Gallon Premium Unleaded Gasoline Tank
3 = 6,000-Gallon Unleaded Plus Gasoline Tank
4 = 500-Gallon Waste Oil Tank
5 = 10,000-Gallon Regular Unleaded Gasoline Tank



Approximate Scale: 0' 30' 60'

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Former UST and Soil Sample Locations

Second Semi-Annual 2010 Groundwater Monitoring
ABE Petroleum LLC

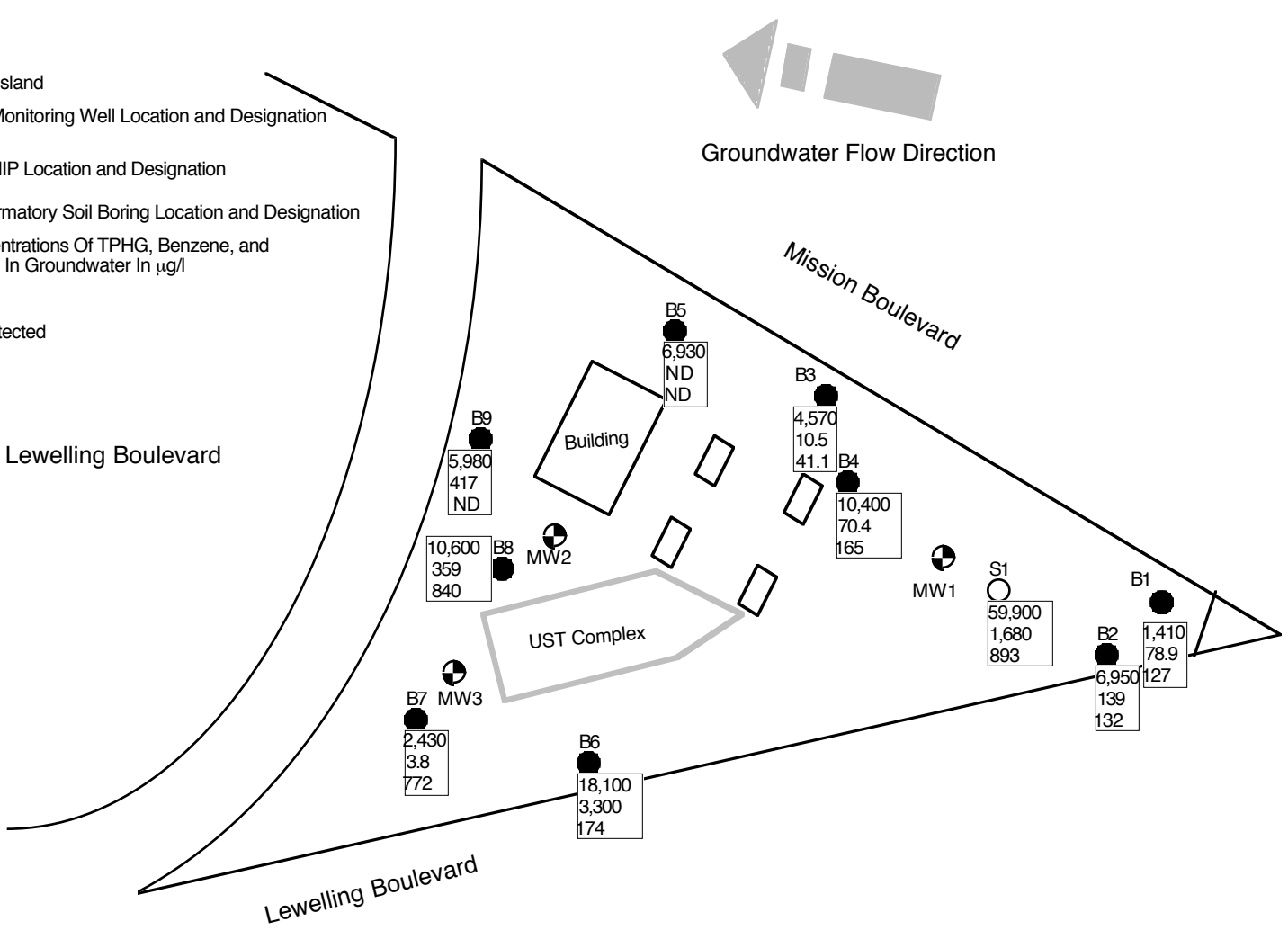
17715 Mission Boulevard · Hayward · California

FIGURE
A
Dec. 28, 2010
Project 03-103.00

LEGEND

- Pump island
- MW1 Monitoring Well Location and Designation
- B1 MIP Location and Designation
- S1 Confirmatory Soil Boring Location and Designation
- 1,410 / 78.9 / 127 — Concentrations Of TPHG, Benzene, and MTBE In Groundwater In µg/l
- ND Not Detected

970 & 982 E. Lewelling Boulevard



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MIP Boring Locations

Second Semi-Annual 2010 Groundwater Monitoring
ABE Petroleum LLC
17715 Mission Boulevard · Hayward · California

FIGURE B
Dec. 28, 2010
Project 03-103.00

Appendix B
QA/QC PROTOCOL

QA/QC PROTOCOL

Groundwater Level and Well Depth Measurements

Groundwater level and well depths are measured using electrical sounder. An electrical sounder consists of a reel, two-conductor cable, a water sensor, and a control panel with a buzzer. To measure groundwater level, the sensor is lowered into a well. A low current circuit is completed when the sensor makes contact with water. The current in the circuit is then amplified and activates a buzzer which produce an audible signal. Cable markings are divided at 0.05-foot increments. Well depths are measured to the nearest 0.01 foot. Groundwater levels are measured before and after sample collection to ensure data accuracy.

Well Purging

Low flow submersible electrical pumps or bailers are used to purge groundwater monitoring wells. Approximately 3 to 5 well casing volume of water is removed from the well as a measure to stabilize natural, and representative groundwater in each well. pH, electrical conductivity, and temperature of the purged water is measured and recorded at approximately each casing volume interval. Purge water is stabilized when pH is recorded within 0.5 unit, electrical conductivity is within 5 percent, and temperature is within 1.0 degree Celsius.

Groundwater Sampling

Groundwater samples are transferred into appropriate containers provided by certified analytical laboratories. The containers include proper preservatives, and labels with appropriate project information. Groundwater is transferred into the containers with as little agitation as possible. After collection, containers are sealed and checked to ensure that no head space or air bubbles are present in the sample.

After collection, if required, samples are kept in a cooler to be delivered to analytical laboratory with chain-of-custody documentation.

Equipment Decontamination

All sampling equipment are washed with Liqui-Nox® (a phosphate free laboratory detergent), and rinsed with tap water before each sampling event, and at each sampling interval. To reduce the risk of cross contamination, wells which have shown lower levels of contamination historically are purged and sampled first.

Analytical Procedures

Samples are analyzed by an accredited State-certified analytical laboratory using procedures prescribed by United State Environmental Protection Agency (EPA) and other Federal, State, and Local agencies. At minimum a field blank is analyzed with each group of samples for quality assurance measures. At minimum two qualified personnel review analytical results and compare them with historical data for consistency and accuracy.

Field Reports

All field observations are documented in field reports. A field report contain project information, climatic condition, contractor/subcontractor information, field observation, discussions and communications during each particular field activity. Field reports are stored in appropriate project files. Project managers review field reports to obtain necessary information regarding the status of each project on daily basis.

Appendix C
CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Northern California ACCUTEST LABORATORIES

12/14/10

Technical Report for

Sierra Environmental, Inc.

T0600102154-ABE, 17715 Mission Boulevard, CA

03-103.00

Accutest Job Number: C13614

Sampling Date: 12/01/10

Report to:

Sierra Environmental, Inc.
980 West Taylor Street
San Jose, CA 95126
maz.sierra@sbcglobal.net

ATTN: Mitch Hajiaghai

Total number of pages in report: **21**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) DoD/ISO/IEC 17025:2005 (L2242)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

Sample Summary

Sierra Environmental, Inc.

Job No: C13614

T0600102154-ABE, 17715 Mission Boulevard, CA
Project No: 03-103.00

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C13614-1	12/01/10	14:30	MH	12/01/10	AQ	Ground Water	MW-1
C13614-2	12/01/10	14:00	MH	12/01/10	AQ	Ground Water	MW-2
C13614-3	12/01/10	13:50	MH	12/01/10	AQ	Ground Water	MW-3
C13614-4	12/01/10	13:30	MH	12/01/10	AQ	Ground Water	MW-6
C13614-5	12/01/10	13:10	MH	12/01/10	AQ	Ground Water	MW-7

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C13614-1	**Date Sampled:**	12/01/10
Matrix:	AQ - Ground Water	**Date Received:**	12/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600102154-ABE, 17715 Mission Boulevard, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17434.D	100	12/08/10	BD	n/a	n/a	VW611
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2520	100	30	ug/l	
108-88-3	Toluene	180	100	50	ug/l	
100-41-4	Ethylbenzene	4240	100	30	ug/l	
1330-20-7	Xylene (total)	10200	200	70	ug/l	
108-20-3	Di-Isopropyl ether	ND	500	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2230	100	50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	500	50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	1000	500	ug/l	
	TPH-GRO (C6-C10)	54000	5000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	98%		60-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	C13614-2	**Date Sampled:**	12/01/10
Matrix:	AQ - Ground Water	**Date Received:**	12/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600102154-ABE, 17715 Mission Boulevard, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17435.D	50	12/08/10	BD	n/a	n/a	VW611
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	127	50	15	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	1890	50	15	ug/l	
1330-20-7	Xylene (total)	697	100	35	ug/l	
108-20-3	Di-Isopropyl ether	ND	250	25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	250	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	206	50	25	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	250	25	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	500	250	ug/l	
	TPH-GRO (C6-C10)	14300	2500	1300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	99%		60-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C13614-3	**Date Sampled:**	12/01/10
Matrix:	AQ - Ground Water	**Date Received:**	12/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600102154-ABE, 17715 Mission Boulevard, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17436.D	20	12/08/10	BD	n/a	n/a	VW611
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1020	20	6.0	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	358	20	6.0	ug/l	
1330-20-7	Xylene (total)	128	40	14	ug/l	
108-20-3	Di-Isopropyl ether	ND	100	10	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	257	20	10	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	10	ug/l	
75-65-0	Tert-Butyl Alcohol	945	200	100	ug/l	
	TPH-GRO (C6-C10)	7910	1000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	98%		60-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	C13614-4	**Date Sampled:**	12/01/10
Matrix:	AQ - Ground Water	**Date Received:**	12/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600102154-ABE, 17715 Mission Boulevard, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17334.D	1	12/02/10	BD	n/a	n/a	VW607
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.70	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	5.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		60-130%
2037-26-5	Toluene-D8	107%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	C13614-5	**Date Sampled:**	12/01/10
Matrix:	AQ - Ground Water	**Date Received:**	12/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600102154-ABE, 17715 Mission Boulevard, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17335.D	1	12/02/10	BD	n/a	n/a	VW607
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.70	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	5.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		60-130%
2037-26-5	Toluene-D8	105%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SIERRA ENVIRONMENTAL, INC.
Environmental Consultants
"SECAST 137"

C13614

CHAIN OF CUSTODY

Project Name: ABE **Project No** 03-103.00 **Date:** 12-01-10

Project Location: 17715 Mission Boulevard **Client:** Paul Garg **Sampler:** Mike Hagi

Sample ID	Date Sampled	Sampling Time	Matrix	N° of Containers	Analysis Requested: TPHG, BTEX,, Fuel Oxygenates 8260B							Turnaround Time
MW-1	12/01/10	1:30	water	3	X	-1						24-hour Other ____ **Normal**
MW-2	↓	2:00	↓	↓	↓	-2						24-hour Other ____ **Normal**
MW-3		11:50				-3						24-hour Other ____ **Normal**
MW-6		1:30				-4						24-hour Other ____ **Normal**
MW-7		1110				-5						24-hour Other ____ **Normal**
								3-VOAs Cw/HCl (X5)				24-hour Other ____ Normal
												24-hour Other ____ Normal

Remarks: Please email the results in EDF format for Geotracker ID# T0600102154 to maz.sierra@sbcglobal.net
Samples contain preservative
Temp 4.3 - 0.2 = 4.1°C

Relinquished by	Date	Time	Received by	Date	Time
	12/01/10	3:40		12-1-10	16:05
Relinquished by	Date	Time	Received by	Date	Time

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C13614: Chain of Custody
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Northern California ACCUTEST Laboratories

Sample Receiving Checklist

Job # C13614

Review Chain of Custody: The Chain of Custody is to be completely and legibly filed out by Client.

- ☑ Are these regulatory (~~NPDES~~) samples? Yes / No circle one ☑ Is pH requested? Yes / No circle one
- N/A ☒ Was Client informed that the hold time is 15mins Yes / No circle one If yes, did they consent to continue? N/A
- ☑ Are sample within ~~one half~~ hold-time? Yes / No circle one If no, was the lab informed? N/A
- ☑ Report to info is complete and legible, including;
  - ☐ Type of Deliverable needed ☐ name ☐ address ☐ phone ☐ email
- ☐ Bill to info is complete and legible, including: ☐ PO# ☐ Credit card ☐ contact ☐ address ☐ phone ☐ email
- ☑ Contact and/or Project Mgr identified, including; ☑ phone ☑ email
- ☑ Project name / number ☐ Special requirements? Yes / No circle one
- ☑ Sample IDs / date & time of collection provided? Yes / No circle one
- ☑ Matrix listed and correct? Yes / No circle one
- ☑ Analyses listed are those we do or client has authorized a subcontract? Yes / No circle one
- ☑ Chain is signed / dated by both client and sample custodian? Yes / No circle one
- ☑ TAT requested available? Approved by PM

Review Coolers:

- ☑ Samples / Coolers are at 0-6°C? 4.1 °C If sampled within 4hrs, then "on ice" is acceptable.

If a cooler is outside the 0-6°C range; note below the bottles in that cooler below.

Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

Shipment Method: walk in

Custody Seals Present: Yes / No circle one Un-broken: Yes / No circle one

Review of Sample Bottles: If you answer no, explain below

- ☑ IDs / bottle number / Date / Time of bottle labels match CoC?
- ☑ Sample bottle intact? Yes / No circle one
- ☑ Proper containers and volumes? Yes / No circle one
- ☑ Proper preservatives? Check pH on preserved samples except 1664, 625, 8270, and VOAs and list below.
- ☑ VOAs received without headspace? Yes / No circle one

Lab #	Client Sample ID	pH Check:	Other Comments / Issues

☐ Client informed of irregularities at receiving ☐ Project Mgr needs to contact Client for issues

Comments:

:T:\Laboratory\Forms\SampleControl\Form_SampleReceiving_2008-04-12.doc

C13614: Chain of Custody

Page 2 of 2

ACCUTEST LABORATORIES C13614

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW607-MB	W17326.D	1	12/02/10	BD	n/a	n/a	VW607

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-4, C13614-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.70	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	60-130%
2037-26-5	Toluene-D8	104%	60-130%
460-00-4	4-Bromofluorobenzene	101%	60-130%

Method Blank Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW611-MB	W17430.D	1	12/08/10	BD	n/a	n/a	VW611

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-1, C13614-2, C13614-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.70	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	60-130%
2037-26-5	Toluene-D8	101%	60-130%
460-00-4	4-Bromofluorobenzene	99%	60-130%

Blank Spike Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW607-BS	W17323.D	1	12/02/10	BD	n/a	n/a	VW607

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-4, C13614-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	16.4	82	60-130
108-20-3	Di-Isopropyl ether	20	19.2	96	60-130
100-41-4	Ethylbenzene	20	16.6	83	60-130
637-92-3	Ethyl Tert Butyl Ether	20	18.5	93	60-130
1634-04-4	Methyl Tert Butyl Ether	20	19.3	97	60-130
994-05-8	Tert-Amyl Methyl Ether	20	18.1	91	60-130
75-65-0	Tert-Butyl Alcohol	100	112	112	60-130
108-88-3	Toluene	20	15.9	80	60-130
1330-20-7	Xylene (total)	60	47.4	79	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	60-130%
2037-26-5	Toluene-D8	99%	60-130%
460-00-4	4-Bromofluorobenzene	108%	60-130%

Blank Spike Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW607-BS	W17325.D	1	12/02/10	BD	n/a	n/a	VW607

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-4, C13614-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	128	102	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	60-130%
2037-26-5	Toluene-D8	105%	60-130%
460-00-4	4-Bromofluorobenzene	102%	60-130%

Blank Spike Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW611-BS	W17427.D	1	12/08/10	BD	n/a	n/a	VW611

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-1, C13614-2, C13614-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	22.1	111	60-130
108-20-3	Di-Isopropyl ether	20	21.1	106	60-130
100-41-4	Ethylbenzene	20	21.6	108	60-130
637-92-3	Ethyl Tert Butyl Ether	20	21.7	109	60-130
1634-04-4	Methyl Tert Butyl Ether	20	22.1	111	60-130
994-05-8	Tert-Amyl Methyl Ether	20	22.0	110	60-130
75-65-0	Tert-Butyl Alcohol	100	121	121	60-130
108-88-3	Toluene	20	21.5	108	60-130
1330-20-7	Xylene (total)	60	65.0	108	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	60-130%
2037-26-5	Toluene-D8	98%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%

Blank Spike Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW611-BS	W17429.D	1	12/08/10	BD	n/a	n/a	VW611

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-1, C13614-2, C13614-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	123	98	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	60-130%
2037-26-5	Toluene-D8	100%	60-130%
460-00-4	4-Bromofluorobenzene	99%	60-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C13607-3MS	W17343.D	1	12/02/10	BD	n/a	n/a	VW607
C13607-3MSD	W17344.D	1	12/02/10	BD	n/a	n/a	VW607
C13607-3	W17338.D	1	12/02/10	BD	n/a	n/a	VW607

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-4, C13614-5

CAS No.	Compound	C13607-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	17.1	86	19.4	97	13	60-130/25
108-20-3	Di-Isopropyl ether	ND		20	20.4	102	22.9	115	12	60-130/25
100-41-4	Ethylbenzene	ND		20	16.9	85	19.0	95	12	60-130/25
637-92-3	Ethyl Tert Butyl Ether	ND		20	20.2	101	22.3	112	10	60-130/25
1634-04-4	Methyl Tert Butyl Ether	ND		20	21.0	105	23.3	117	10	60-130/25
994-05-8	Tert-Amyl Methyl Ether	ND		20	19.9	100	22.0	110	10	60-130/25
75-65-0	Tert-Butyl Alcohol	ND		100	128	128	141	141* [a]	10	60-130/25
108-88-3	Toluene	ND		20	17.0	85	19.1	96	12	60-130/25
1330-20-7	Xylene (total)	ND		60	53.1	89	55.7	93	5	60-130/25

CAS No.	Surrogate Recoveries	MS	MSD	C13607-3	Limits
1868-53-7	Dibromofluoromethane	110%	110%	109%	60-130%
2037-26-5	Toluene-D8	103%	103%	107%	60-130%
460-00-4	4-Bromofluorobenzene	106%	106%	104%	60-130%

(a) Outside control limits due to matrix interference.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C13614
Account: SECASJ Sierra Environmental, Inc.
Project: T0600102154-ABE, 17715 Mission Boulevard, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C13605-15MS	W17448.D	1	12/08/10	BD	n/a	n/a	VW611
C13605-15MSD	W17449.D	1	12/08/10	BD	n/a	n/a	VW611
C13605-15	W17447.D	1	12/08/10	BD	n/a	n/a	VW611

The QC reported here applies to the following samples: **Method:** SW846 8260B

C13614-1, C13614-2, C13614-3

CAS No.	Compound	C13605-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	22.3	112	22.9	115	3	60-130/25
108-20-3	Di-Isopropyl ether	ND		20	23.5	118	23.4	117	0	60-130/25
100-41-4	Ethylbenzene	ND		20	21.4	107	21.9	110	2	60-130/25
637-92-3	Ethyl Tert Butyl Ether	ND		20	23.3	117	23.7	119	2	60-130/25
1634-04-4	Methyl Tert Butyl Ether	ND		20	22.6	113	24.0	120	6	60-130/25
994-05-8	Tert-Amyl Methyl Ether	ND		20	22.7	114	23.7	119	4	60-130/25
75-65-0	Tert-Butyl Alcohol	ND		100	104	104	129	129	21	60-130/25
108-88-3	Toluene	ND		20	21.3	107	21.8	109	2	60-130/25
1330-20-7	Xylene (total)	ND		60	62.9	105	64.1	107	2	60-130/25

CAS No.	Surrogate Recoveries	MS	MSD	C13605-15	Limits
1868-53-7	Dibromofluoromethane	104%	103%	100%	60-130%
2037-26-5	Toluene-D8	101%	99%	102%	60-130%
460-00-4	4-Bromofluorobenzene	101%	102%	99%	60-130%

Appendix D
FIELD NOTES

SIERRA ENVIRONMENTAL, INC.
Environmental Consultants

GROUNDWATER MONITORING DATA FORM

Project No: 03-103.00 **Date:** 12-01-10

Project Name: ABE **Well N°:** MW1

Field Personnel: Mike **Weather:** cloudy

Project Location: 17715 Mission Boulevard, Hayward

PURGE WATER VOLUME CALCULATION	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Multiplier Casing Diameter			Casing Volume (gal)	Purged Volume (gal)
				2"	4"	6"		
	33.25	22.73	10.5	0.16	0.64	1.44	1.68	≈ 5.0

Purge Method: Bailer **Measuring Reference:** TOC

Time						
Volume Purged (gal)	0	1.5	3.0	5.0		
Temperature (° F)	64.0	64.1	64.3	64.2		
pH	6.15	6.13	6.10	6.08		
Specific Conductivity (umhos/cm)	670	680	680	680		
Turbidity/Color	light gray	→	→	→		
Odor	yes	→	→	→		

Comments: sheens were observed in the water.

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GROUNDWATER MONITORING DATA FORM

Project No: 03-103.00 Date: 12-01-10

Project Name: ABE Well N°: MW2

Field Personnel: Mike Weather: cloudy

Project Location: 17715 Mission Boulevard, Hayward

PURGE WATER VOLUME CALCULATION	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Multiplier Casing Diameter			Casing Volume (gal)	Purged Volume (gal)
				2"	4"	6"		
	33.75	23.96	9.79	0.16	0.64	1.44	1.5	≈5.0

Purge Method: Bailer Measuring Reference: TOC

Time						
Volume Purged (gal)	0	1.5	3.0	5.0		
Temperature (° F)	63.9	63.9	64.0	64.1		
pH	6.20	6.18	6.19	6.20		
Specific Conductivity (umhos/cm)	670	680	680	700		
Turbidity/Color	Light gray	→	→	→		
Odor	Yes	→	→	→		

Comments:

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GROUNDWATER MONITORING DATA FORM

Project No: 03-103.00 Date: ~~12-01-10~~

Project Name: ABE Well N°: ~~MW3~~

Field Personnel: Mike Weather: cloudy

Project Location: 17715 Mission Boulevard, Hayward

PURGE WATER VOLUME CALCULATION	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Multiplier Casing Diameter			Casing Volume (gal)	Purged Volume (gal)
				2"	4"	6"		
	33.75	23.07	10.68	0.16	0.64	1.44	1.7	≈ 6.0

Purge Method: Bailer Measuring Reference: ~~TOC~~

Time						
Volume Purged (gal)	0	2	4	6		
Temperature (° F)	63.7	63.8	63.6	63.9		
pH	6.24	6.21	6.20	6.19		
Specific Conductivity (umhos/cm)	660	670	670	670		
Turbidity/Color	light grey	→	→	→		
Odor	No	yes	yes	yes		

Comments:

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SIERRA ENVIRONMENTAL, INC.
Environmental Consultants

GROUNDWATER MONITORING DATA FORM

Project No: 03-103.00 Date: ~~12-01-10~~

Project Name: ABE Well N°: ~~MW6~~

Field Personnel: Mike Weather:

Project Location: 17715 Mission Boulevard, Hayward

PURGE WATER VOLUME CALCULATION	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Multiplier Casing Diameter			Casing Volume (gal)	Purged Volume (gal)
				2"	4"	6"		
	25	20.04	4.96	0.16	0.64	1.44	0.79	≈ 3.0

Purge Method: Bailer Measuring Reference: ~~TOC~~

Time						
Volume Purged (gal)	0	1	2	3		
Temperature (° F)	63.5	63.7	63.7	63.8		
pH	6.21	6.20	6.24	6.21		
Specific Conductivity (umhos/cm)	690	680	680	680		
Turbidity/Color	Light Brown	→	→	→		
Odor	NO	→	→	→		

Comments:

980 W. Taylor Street • San Jose • California • 95126
Phone (408) 971-6758 • Fax (408) 971-6759

SIERRA ENVIRONMENTAL, INC.
Environmental Consultants

GROUNDWATER MONITORING DATA FORM

Project No: 03-103.00 Date: 12-01-10

Project Name: ABE Well N°: MW7

Field Personnel: Mike Weather:

Project Location: 17715 Mission Boulevard, Hayward

PURGE WATER VOLUME CALCULATION	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Multiplier Casing Diameter			Casing Volume (gal)	Purged Volume (gal)
				2"	4"	6"		
	25	20.89	4.11	0.16	0.64	1.44	0.65	≈ 3.0

Purge Method: Bailer Measuring Reference: TOC

Time						
Volume Purged (gal)	0	1	2	3		
Temperature (° F)	64.1	64.2	64.1	64.2		
pH	6.25	6.23	6.23	6.24		
Specific Conductivity (umhos/cm)	670	680	690	690		
Turbidity/Color	Cloudy Brown	→	→	→		
Odor	NO	→	→	→		

Comments:

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