

**FIRST QUARTER 2006
GROUNDWATER MONITORING**

**ABE Petroleum LLC
17715 Mission Boulevard
Hayward, California 94539**

006 APR -7 PM 1:47

**Prepared for
Mr. Paul Garg
ABE Petroleum LLC**

**Prepared by
Sierra Environmental, Inc.**

**March 29, 2006
Project 03-103.07**



Sierra Environmental, Inc.
Environmental Consultants

March 29, 2006
Project 03-103.07

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

Subject: Report for First Quarter 2006 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 first quarter 2006 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 March 10, 2006, Sierra obtained and recorded groundwater data, and collected groundwater samples from three groundwater monitoring wells (MW1 through MW3) at the Site for chemical analysis. Sierra submitted the samples to Entech Analytical Labs, Inc. (Entech) of Santa Clara, California for chemical analysis. Entech is an independent State-certified analytical laboratory (# 2346).

Alameda County
APR 10 2006
Environmental Health

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

On March 10, 2006, Sierra performed the first quarter 2006 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2) using an electronic sounder. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 17.85' to 19.15' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

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 through MW-3 were collected from the wells. After collection, the groundwater from each well was transferred into clean volatile organic analysis (VOA) vials. The VOAs were sealed with Teflon-septum screw caps, labeled, placed on ice in a cooler, and delivered to Entech 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 TPHG using the United States Environmental Protection Agency (EPA) method GC-MS. The samples were also analyzed for benzene, toluene, ethyl benzene, total xylenes (BTEX), and fuel oxygenates 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

Sierra has recently received an approval letter from ACHCS for the Work plan regarding Soil and Groundwater Investigation. Sierra will perform the groundwater investigation as soon as all the proper permit processing is completed.

LIMITATIONS

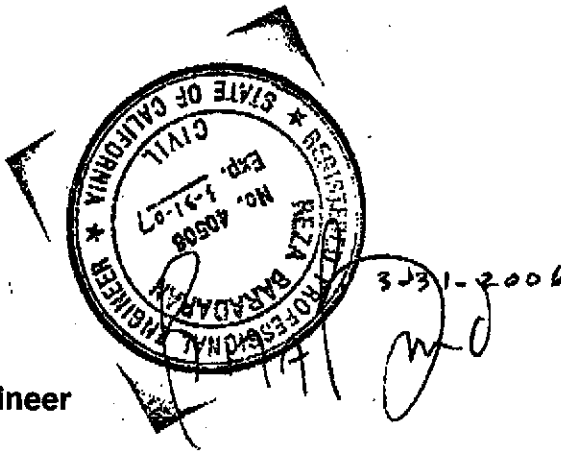
The content and conclusion provided by Sierra in this report are based on information collected during its assessment/monitoring, which include, but are not limited to field observations and analytical results for the groundwater samples collected at the Site.

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.



Reza Baradaran, PE, GE
Registered Geotechnical Engineer

Mitch Hajiaghai, REA II, CAC
Project Manager

- 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 C - Field Notes

cc: Mr. Amir Gholami, ACHCS (1 Copy)

R04-103.07\1stQ2006GWMH03292006

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			
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			

**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			

1. Depths to groundwater were measured to the top of the well casings
2. Water table elevations were measured in relation to an assumed datum (100') relative elevation

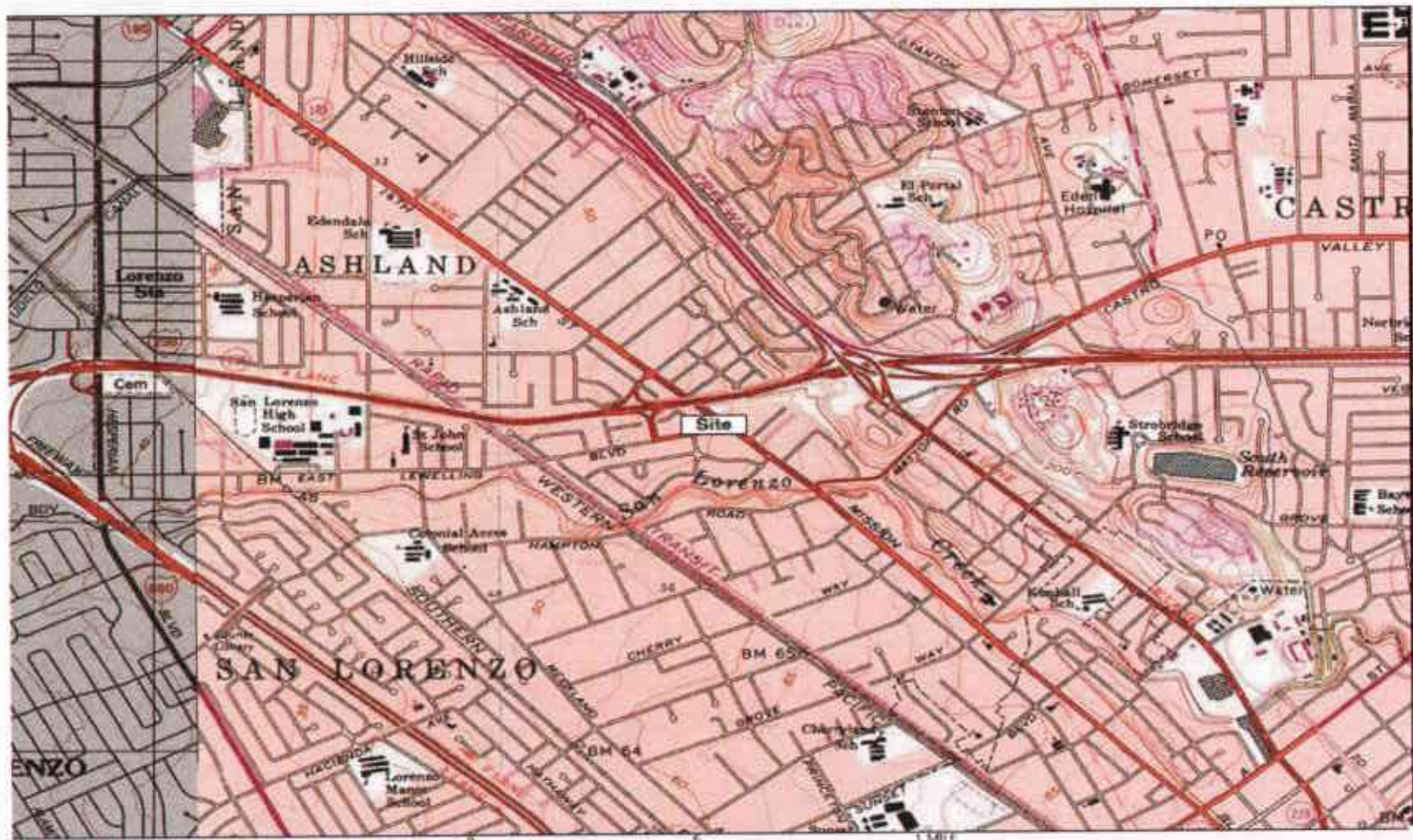
**TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**

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-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	
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	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	

**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

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
 2. MTBE = Methyl Tertiary Butyl Ether
 3. ND = Not Detected
- * 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)



SIERRA ENVIRONMENTAL, INC.
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SITE LOCATION MAP

**First Quarter 2006 Groundwater Monitoring Report
ABE Petroleum LLC**




17715 Mission Boulevard • Hayward • California

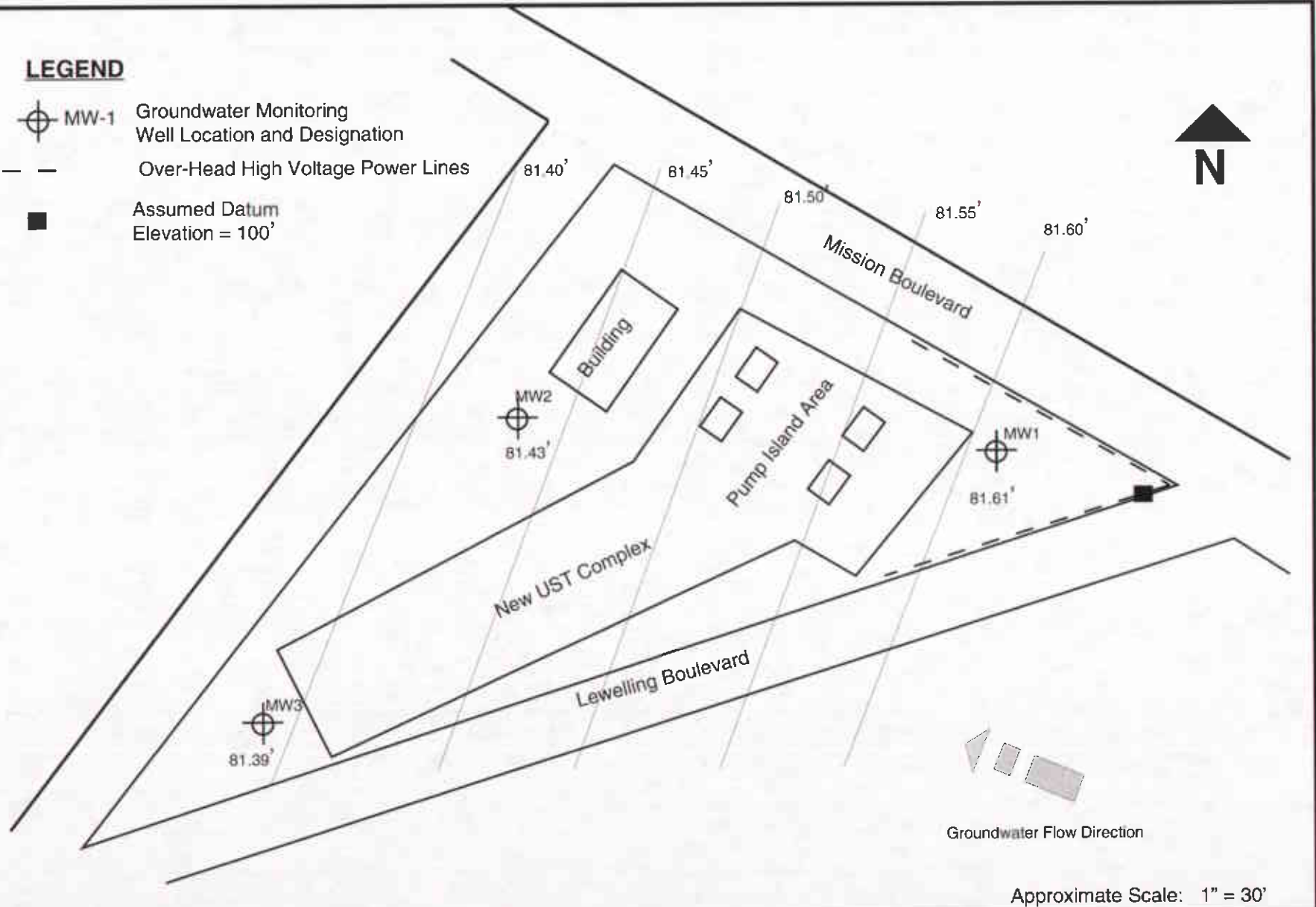
FIGURE

1

March 29, 2006
Project 03-103.07

LEGEND

-  MW-1 Groundwater Monitoring Well Location and Designation
-  Over-Head High Voltage Power Lines
-  Assumed Datum Elevation = 100'



Approximate Scale: 1" = 30'



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Groundwater Monitoring Well Locations

**First Quarter 2006 Groundwater Monitoring
ABE Petroleum LLC**

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FIGURE

2

March: 29, 2006
Project 03-103.07

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.

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.

On March 30, 2001, Sierra performed first quarter 2001 groundwater monitoring at the Site. The field and analytical results are presented in Table I and II. Groundwater was measured at approximately 20 to 21 feet from top of the well casing (TOC) at the Site with a northwesterly flow direction.

On June 22, 2001, Sierra performed second quarter 2001 groundwater monitoring at the Site. Groundwater levels were measured at approximately 22 to 23 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 20, 2001, Sierra performed third quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 24 to 25 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 27, 2001, Sierra performed fourth quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.59 to 23.82 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 24, 2002, Sierra performed third quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were

measured at approximately 23.69 to 24.89 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 17, 2002, Sierra performed fourth quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.75 to 23.99 feet below TOC with a northwesterly flow direction during this monitoring event.

On April 2, 2003, Sierra performed first quarter 2003 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 21.25 to 22.32 feet below TOC with a westerly flow direction during this monitoring event.

On June 12, 2003, Sierra performed second quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.64 to 20.94 feet below TOC with a westerly flow direction during this monitoring event.

Sierra prepared soil and Groundwater investigation plan and addendum to the plan dated May 27 and September 10, 2003 respectively for the site. The Addendum to the plan dated September 10, 2003 is being reviewed by ACHCS.

On September 29, 2003, Sierra performed third quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.95 to 24.15 feet below TOC with a westerly flow direction during this monitoring event.

On December 4, 2003, Sierra performed fourth quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 23.70 to 24.91 feet below TOC with a westerly flow direction during this monitoring event.

On March 9, 2004, Sierra performed first quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 19.80 to 20.20 feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On June 24, 2004, Sierra performed second quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 21.44 to 22.95 feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On September 9, 2004, Sierra performed third quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 23.30' to 24.55' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On December 21, 2004, Sierra performed fourth quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.92' to 24.21' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On March 16, 2005, Sierra performed first quarter 2005 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 18.99' to 20.29' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

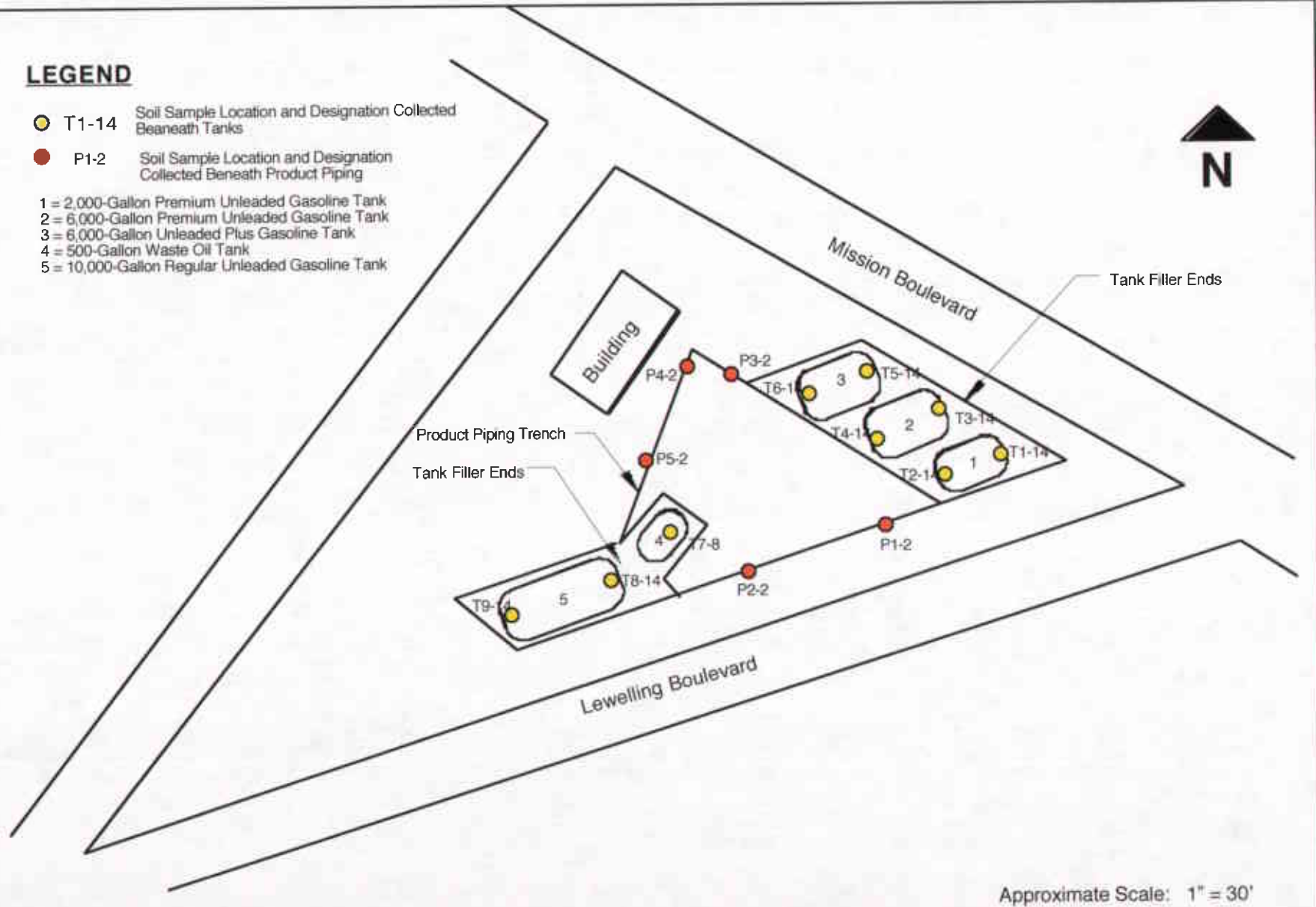
On June 9, 2005, Sierra performed second quarter 2005 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.02' to 21.68' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On September 22, 2005, Sierra performed Third quarter 2005 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.69' to 23.22' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On December 7, 2005, Sierra performed fourth quarter 2005 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 2). Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 21.90' to 23.93' feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

LEGEND

- T1-14 Soil Sample Location and Designation Collected Beneath 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: 1" = 30'



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Former UST and Soil Sample Locations

**First Quarter 2006 Groundwater Monitoring
 ABE Petroleum LLC**

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FIGURE

A

March 29, 2006
 Project 03-103.07

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

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

**Mitch Hajiaghai
Sierra Environmental, Inc.
980 West Taylor Street
San Jose, CA 95126**

Lab Certificate Number: 48366

Issued: 03/22/2006

Project Number: 03-103

Project Name: ABE

Global ID: T0600102154

Project Location: 17715 Mission Blvd. /Hayward,CA

Certificate of Analysis - Final Report

On March 10, 2006, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	Electronic Deliverables EPA 8260B for Groundwater and Water - EPA 624 for Wastewater TPH as Gasoline by GC/MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Operations Manager

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Sierra Environmental, Inc.
980 West Taylor Street
San Jose, CA 95126
Attn: Mitch Hajiaghai

Project Number: 03-103
Project Name: ABE
Project Location: 17715 Mission Blvd. /Hayward, CA
GlobalID: T0600102154

Certificate of Analysis - Data Report

Samples Received: 03/10/2006
Sample Collected by: Client

Lab # : 48366-001

Sample ID: MW-1

Matrix: Liquid Sample Date: 3/10/2006

EPA 8260B for Groundwater and Water EPA 624 for Wastewater								8260 Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	3600		200	100	µg/L	N/A	N/A	3/21/2006	WM1060321
Toluene	6900		200	100	µg/L	N/A	N/A	3/21/2006	WM1060321
Ethyl Benzene	4000		200	100	µg/L	N/A	N/A	3/21/2006	WM1060321
Xylenes, Total	18000		200	100	µg/L	N/A	N/A	3/21/2006	WM1060321
Methyl-t-butyl Ether	3300		200	200	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butyl Ethyl Ether	ND		200	1000	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butanol (TBA)	ND		200	2000	µg/L	N/A	N/A	3/21/2006	WM1060321
Diisopropyl Ether	ND		200	1000	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Amyl Methyl Ether	ND		200	1000	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.4	60 - 130
Dibromofluoromethane	111	60 - 130
Toluene-d8	95.3	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	53000		200	5000	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.8	60 - 130
Dibromofluoromethane	100	60 - 130
Toluene-d8	90.8	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

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GlobalID: T0600102154

Certificate of Analysis - Data Report

Samples Received: 03/10/2006
Sample Collected by: Client

Lab #: 48366-002 Sample ID: MW-2

Matrix: Liquid Sample Date: 3/10/2006

EPA 8260B for Groundwater and Water EPA 624 for Wastewater								8260Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	2100		100	50	µg/L	N/A	N/A	3/21/2006	WM1060321
Toluene	170		100	50	µg/L	N/A	N/A	3/21/2006	WM1060321
Ethyl Benzene	4200		100	50	µg/L	N/A	N/A	3/21/2006	WM1060321
Xylenes, Total	7500		100	50	µg/L	N/A	N/A	3/21/2006	WM1060321
Methyl-t-butyl Ether	4400		100	100	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butyl Ethyl Ether	ND		100	500	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butanol (TBA)	1200		100	1000	µg/L	N/A	N/A	3/21/2006	WM1060321
Diisopropyl Ether	ND		100	500	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Amyl Methyl Ether	ND		100	500	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.9	60 - 130
Dibromofluoromethane	110	60 - 130
Toluene-d8	92.2	60 - 130

Analyzed by: XBian
Reviewed by: MaiChiTu

GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	34000		100	2500	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	85.7	60 - 130
Dibromofluoromethane	99.4	60 - 130
Toluene-d8	87.8	60 - 130

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Project Number: 03-103
Project Name: ABE
Project Location: 17715 Mission Blvd. /Hayward,CA
GlobalID: T0600102154

Certificate of Analysis - Data Report

Samples Received: 03/10/2006
Sample Collected by: Client

Lab #: 48366-003

Sample ID: MW-3

Matrix: Liquid Sample Date: 3/10/2006

EPA 8260B for Groundwater and Water EPA 624 for Wastewater								8260Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	1100		25	12	µg/L	N/A	N/A	3/21/2006	WM1060321
Toluene	24		25	12	µg/L	N/A	N/A	3/21/2006	WM1060321
Ethyl Benzene	990		25	12	µg/L	N/A	N/A	3/21/2006	WM1060321
Xylenes, Total	810		25	12	µg/L	N/A	N/A	3/21/2006	WM1060321
Methyl-t-butyl Ether	1300		25	25	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butyl Ethyl Ether	ND		25	120	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Butanol (TBA)	1400		25	250	µg/L	N/A	N/A	3/21/2006	WM1060321
Diisopropyl Ether	ND		25	120	µg/L	N/A	N/A	3/21/2006	WM1060321
tert-Amyl Methyl Ether	ND		25	120	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	93.6	60	- 130
Dibromofluoromethane	109	60	- 130
Toluene-d8	92.8	60	- 130

Analyzed by: XBian
Reviewed by: MaiChiTu

GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	9100		25	620	µg/L	N/A	N/A	3/21/2006	WM1060321

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	88.2	60	- 130
Dibromofluoromethane	98.9	60	- 130
Toluene-d8	88.4	60	- 130

Analyzed by: XBian
Reviewed by: MaiChiTu

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Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1060321

Validated by: MaiChiTu - 03/22/06

QC Batch Analysis Date: 3/21/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	99.6	60 - 130
Dibromofluoromethane	113	60 - 130
Toluene-d8	103	60 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1060321

Reviewed by: MaiChiTu - 03/22/06

QC Batch ID Analysis Date: 3/21/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	21.7	µg/L	108	70 - 130
Methyl-t-butyl Ether	<1.0	20	24.6	µg/L	123	70 - 130
Toluene	<0.50	20	20.6	µg/L	103	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.1	60 - 130
Dibromofluoromethane	108.0	60 - 130
Toluene-d8	93.6	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	22.1	µg/L	110	1.8	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	25.2	µg/L	126	2.4	25.0	70 - 130
Toluene	<0.50	20	20.9	µg/L	104	1.4	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.5	60 - 130
Dibromofluoromethane	109.0	60 - 130
Toluene-d8	94.5	60 - 130

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Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1060321

Validated by: MaiChiTu - 03/22/06

QC Batch Analysis Date: 3/21/2006

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	93.8	60 - 130
Dibromofluoromethane	102	60 - 130
Toluene-d8	98.6	60 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1060321

Reviewed by: MaiChiTu - 03/22/06

QC Batch ID Analysis Date: 3/21/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	136	µg/L	108	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	96.4	60 - 130
Dibromofluoromethane	98.6	60 - 130
Toluene-d8	97.1	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	127	µg/L	102	6.6	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	97.7	60 - 130
Dibromofluoromethane	98.6	60 - 130
Toluene-d8	96.6	60 - 130

Lab# 48366



SIERRA ENVIRONMENTAL, INC.
Environmental Consultants

CHAIN OF CUSTODY

Project Name: ABE Project No: 03-103.007 Date: 3-10-06
 Project Location: 17715 Mission Boulevard Client: Paul Garg Sampler: Mike Hagg

Sample ID	Date Sampled	Sampling Time	Matrix	N° of Containers	Analysis Requested						Turnaround Time		
					8015/8020 TPHG BTEX, MTBE	8015 TPHD	418.1 TRPH	BTEX 8020	TPHG BTEX, Fuel Oxygenates 8260				24-hour Other _____
001 MW-1	3-10-06		WATER	3					X			24-hour Other _____	Normal
002 MW-2	X		X	X					X			24-hour Other _____	Normal
003 MW-3	X		X	X					X			24-hour Other _____	Normal
												24-hour Other _____	Normal
												24-hour Other _____	Normal
												24-hour Other _____	Normal
												24-hour Other _____	Normal

Remarks: Please email the results in EDF format GLOBALID # 7060010215*

Relinquished by: [Signature] Date: 3/10/06 Time: 11:30 Received by: [Signature] Date: 3/10/06 Time: 11:27

980 W. Taylor Street • San Jose • California • 95126
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Appendix D
FIELD NOTES



GROUNDWATER MONITORING DATA FORM

Project No: 03-103.07 Date: 3-10-06
 Project Name: ABE Well No: MW-1
 Field Personnel: Mika S MAZ Weather: cloudy
 Project Location: 17715 Mission Boulevard

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	17.85	15.4	0.16	0.64	1.44	2.46	6.0

Purge Method: Boiler Measuring Reference: TOC

Time						
Volume Purged (gal)	0	2	4	6		
Temperature (° F)	64.9	65.3	66.0	66.8		
pH	6.61	6.53	6.48	6.42		
Specific Conductivity (umhos/cm)	4200	→	→	→		
Turbidity/Color	Light Gray	→	→	→		
Odor	Yes	→	→	→		

Comments: _____



GROUNDWATER MONITORING DATA FORM

Project No: 03-103.07 Date: 3-10-06
 Project Name: ABE Well N°: MW-2
 Field Personnel: Mitlen and MAZ Weather: cloudy
 Project Location: 17715 Mission Boulevard

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	19.15	14.6	0.16	0.64	1.44	2.33	7.0

Purge Method: Boiler Measuring Reference: TOC

Time						
Volume Purged (gal)		0	2.33	4.5	7.0	
Temperature (° F)		66.0	66.3	67.1	66.9	
pH		6.71	6.63	6.58	6.59	
Specific Conductivity (umhos/cm)		4200	4400	4200	4200	
Turbidity/Color		1.5 out gray	→	→	→	
Odor		yes	→	→	→	

Comments: H.C. odor



GROUNDWATER MONITORING DATA FORM

Project No: 03-103.07 Date: 3-10-06
 Project Name: ABE Well N°: MW-3
 Field Personnel: Mike MAZ Weather: cloudy
 Project Location: 17715 Mission Boulevard

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	18.30	15.42	0.16	0.64	1.44	2.47	7.4 = 7.5

Purge Method: Bailer Measuring Reference: TOC

Time						
Volume Purged (gal)		0	2.5	5.0	7.5	
Temperature (° F)		65.8	66.3	66.81	67.1	
pH		6.48	6.36	6.28	6.21	
Specific Conductivity (umhos/cm)		3900	4200	4200	4200	
Turbidity/Color		1.504 gray	→	→	→	
Odor		Yes	→	→	→	

Comments: HC odor