OCT 1 0 2001

THIRD QUARTER 2001 GROUNDWATER MONITORING

ABE Petroleum LLC 17715 Mission Boulevard Hayward, California 94539 NENSE 10/5/01

Prepared for Mr. Paul Garg ABE Petroleum LLC

Prepared by Sierra Environmental, Inc.

October 2, 2001 Project 01-103.05



Sierra Environmental, Inc. Environmental Consultants

October 2, 2001 Project 01-103.05

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

Subject:

Report for Third Quarter 2001 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 of the third quarter 2001 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.

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. Entech is an independent State-certified analytical laboratory (ELAP # 2346).

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 2. 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 2.

On August 14, 2000, Sierra drilled three exploratory 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 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.

On March 30, 2001, Sierra performed 1st 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 2nd 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.

GROUNDWATER MONITORING

On September 20, 2001, Sierra performed 3rd quarter 2001 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 3) using an electronic sounder. 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. Table I presents the groundwater measurement data.

Sierra's field personnel purged the wells using bailers. pH, temperature, and conductivity of groundwater was 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 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 A.

CHEMICAL ANALYSIS

The samples were analyzed for TPHG using the United States Environmental Protection Agency (EPA) modified method 8015, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA method 8020. Additionally, the samples were analyzed for fuel oxygenates using EPA method 8260B. Copies of certified analytical results and chain-of-custody documentation are presented in Appendix B.

ANALYTICAL RESULTS

Analytical results obtained in this monitoring event show a decreasing trend in TPHG and an increasing trend in MTBE in groundwater beneath the site. Table II presents Summary of the analytical results.

CONCLUSION AND RECOMMENDATIONS

The groundwater data obtained during this monitoring event show decrease in TPHG concentrations and increase in MTBE concentrations. The concentrations of TPHG, benzene, and MTBE remain to be high in the groundwater samples. To confirm that this trend will not change at the end of the fall, Sierra recommends continuing with the remaining groundwater monitoring for 2001.

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.

Sierra appreciates to have the opportunity assisting you on this project. Please feel welcome to call us if you have questions.

Very Truly Yours, Sierra Environmental, Inc.

Principal

Mitch Hajiaghai, REA II, CAC

Principal

Groundwater Elevation Data Table I Attachments:

Analytical Results for Groundwater Samples Table II

Site Location Map Figure 1

Former UST and Soil Sample Locations Figure 2 **Groundwater Monitoring Well Locations** Figure 3

QA/QC Protocol Appendix A

Certified Analytical Results and Chain-of-Custody Documentation & Appendix B

Groundwater Monitoring Data Forms

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

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TABLE I **GROUNDWATER ELEVATION DATA**

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water' (ft)	Water Table ² Elevation (ff)
MW1	8-18-00 3-30-01	2	99.46	20.32 20.30	79.14 79.16
	6-22-01			21.91	77.55
	9-20-01		;	23.56	75.90
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
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

1.

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

TABLE II

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Sample ID	Sample Date	Sample Location	TPHG ¹ ppb ³	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb	MTBE ² ppb
MW-1 * *	8-18-00 3-30-01 6-22-01 9-20-01	MW1	280,000 98,000 110,000 93,000	10,000 8,600 7,500 8,700	16,000 14,000 12,000 11,000	11,000 6,300 5,700 6,300	49,000 26,000 24,000 27,000	4,000 7,600 3,800 4,600
MW-2	8-18-00 3-30-01 6-22-01 9-20-01	MW2	290,000 47,000 57,000 42,000	3700 3,200 2,500 2,300	990 470 350 230	7,300 4,500 4,200 4,300	26,000 13,000 12,000 12,000	ND ⁴ 3,100 1,800 2,200
MW-3 * *	8-18-00 3-30-01 6-22-01 9-20-01	мwз	46,000 30,000 35,000 30,000	3,200 3,300 4,000 3,800	550 340 340 260	3,700 2,800 2,900 2,500	14,000 9,100 7,600 6,600	2,200 4,700 4,100 5,300

1. TPHG = Total Petroleum Hydrocarbons as Gasoline

2. MTBE = Methyl Tertiary Butyl Ether

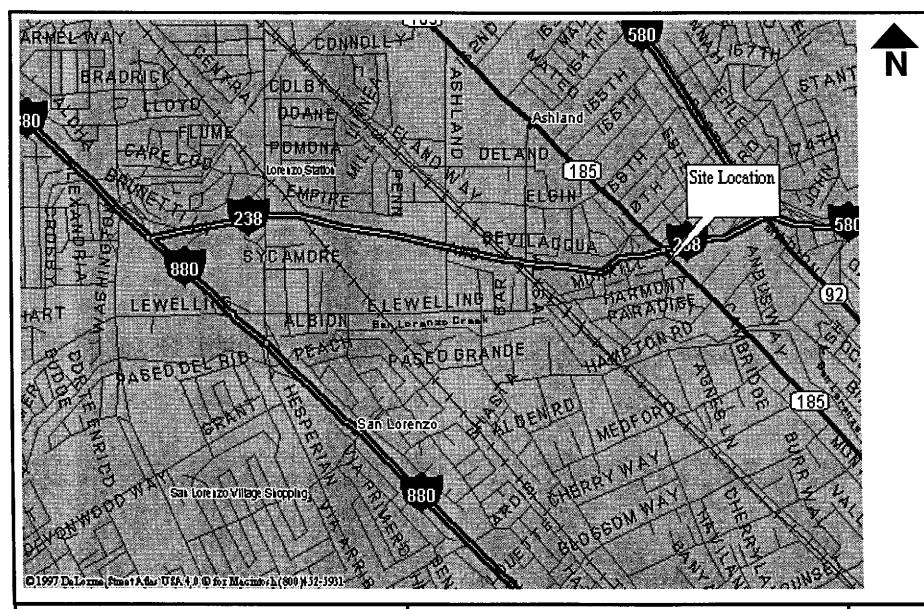
3. ppb = Parts Per Billion

4. ND = Below Laboratory Detection Limit

The Sample was Analyzed for Fuel Oxygenates using EPA Method 8260B. Only

MTBE was Detected in the sample

** Additionally, 630 ppb tert-Butanol was detected in the sample





SIERRA ENVIRONMENTAL, INC. Environmental Consultants

1670 Newhall St., Suite 212, Santa Clara, CA 95050 Phone [408]248-2700 • Fax [408] 248-4700

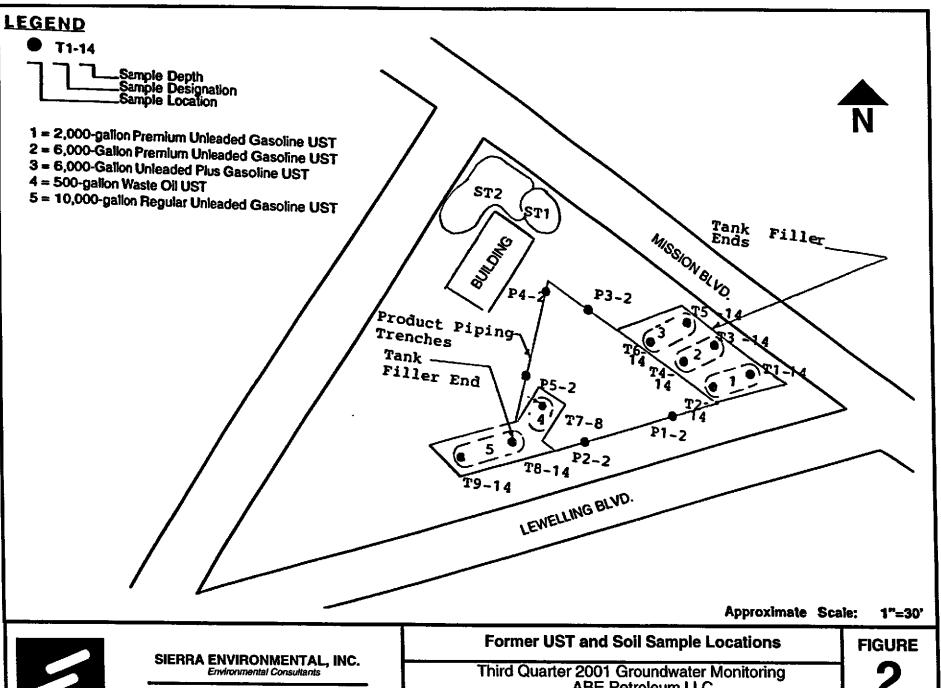
SITE LOCATION MAP

Third Quarter 2001, Groundwater Monitoring ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE

October 2, 2001 Project 01-103.05



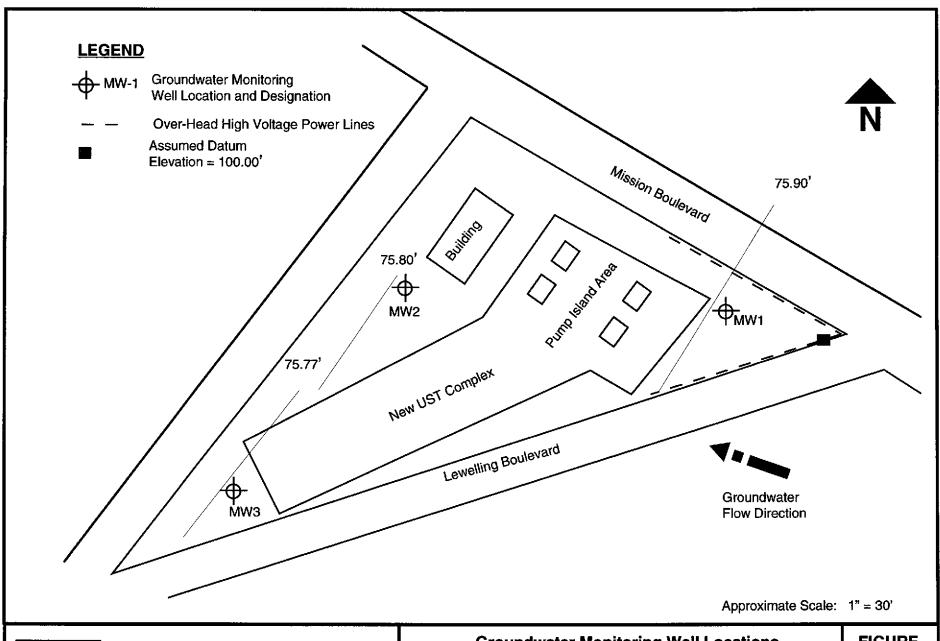


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Groundwater Monitoring Well Locations

Third Quarter 2001 Groundwater Monitoring ABE Petroleum LLC

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FIGURE

October 2, ,2001 Project 01-103.05 Appendix A 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 B CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION & GROUNDWATER MONITORING DATA FORMS

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

September 29, 2001

Mitch Hajiaghai Sierra Environmental, Inc. 1670 Newhall Street Santa Clara, CA 95050

Order: 26989

Date Collected: 9/20/01

Project Name: ABF Petrolcum IIC

Date Received: 9/20/01

Project Number: 01-103 05

P.O. Number: 01-103 05

Project Notes:

On September 20, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

Test

Gas/BTEX/MT8E Liquid

EPA 8015 MOD. (Purgeable)

EPA 8020

Oxygenates by EPA 8260B

EPA 8260B Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson

Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Sierra Environmental, Inc.

1670 Newhall Street

ootii 17 2001 - ÖlegMb

Santa Clara, CA 95050

Attn: Mitch Hajiaghai

Date: 9/28/01

Date Received: 9/20/01

Project Name: ABF Petroleum IIC

Project Number: 01-103 05

P.O. Number: 01-103 05

Sampled By: Mitch Hajiaghai

Certified Analytical Report

Order ID: 26989		Lab S	ample ID:	2698	39-001		Client Sam	ple ID: MV	V-1		
Sample Time:		Sample Date:			/01			Matrix: Liq	uid		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	8700		200	0.5	100	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
Toluene	11000		200	0.5	100	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
Ethyl Benzene	6300		200	0.5	100	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
Xylenes, Total	27000		200	0.5	100	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
•					Sarroge	ate .	Surr	ogate Recovery	Control Limits (%		
				23	a-Trifluoro	toluene		89	6	i5 - 135	
Parameter	Result	Fing	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	2900		200	5	1000	μ ջ/ Ն	N/A	9/25/01	WGC22171	EPA 8020	
222-0.11-7.2	-,			Surrogate			Surre	gate Recovery	y Control Limits (%)		
			ass-Trifluorotoluene			toluene		89	65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
tert-Butanoi	ND		50	20	1000	µg/L	N/A	9/26/01	WMS31183	EPA 8260B	
Methyl-t-butyl Ether	4600		50	5	250	μ <u>σ</u> /Ն	N/A	9/26/01	WMS31183	EPA 8260B	
Diisopropyl Ether	ND		50	5	250	μg/L	N/A	9/26/01	WM\$31183	EPA 8260B	
Ethyl-t-butyl Ether	ND		50	5	250	μg/L	N/A	9/26/01	WMS31183	EPA 8260B	
tert-Amyl Methyl Ether	סא		50	5	250	μg/L	N/A	9/26/01	WM531183	EPA 8260B	
detraily receipt Dave.	1.2		••	•	Surroga		Surrogate Recovery				
				4-B	4-Bromofluorobenzene		127		6	5 - 135	
				. –	romofluoro		109		5	7 - 139	
		•			Toluene-	d 8		124	6:	5 - 135	
Parameter	Result	Flag	DF :	PQL	DLR	Uaits	Extraction Date	Analysis Date	QC Batch ID	Method	
IPH as Gasoline	93000		200	50	10000	μg/L	N/A	9/25/01	WGC22171	EPA 8015 MOL (Purgeable)	
					Surroga	te	Surre	gate Recovery	Conta	ol Limits (%)	
				222	ı-Trifluorot		•	94	6:	5 - 135	

DF = Dilution Factor

ND - Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Sierra Environmental, Inc.

1670 Newhall Street Santa Clara, CA 95050

Vocal Le 2001 de 20mb

Attn: Mitch Hajiaghai

Date: 9/28/01

Date Received: 9/20/01

Project Name: ABF Petroleum IIC

Project Number: 01-103 05 P.O. Number: 01-103 05

Sampled By: Mitch Hajiaghai

Certified Analytical Report

Order ID: 26989		Lab Sample ID: 26989-002						Client Sample ID: MW-2					
Sample Time:		Sample Date:			/01								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method			
Benzene	2300		100	0.5	50	μg/L	N/A	9/25/01	WGC22171	EPA 8020			
Toluene	230		100	0.5	50	μ g/L	N/A	9/25/01	WGC22171	EPA 8020			
Ethyl Benzene	4300		100	0.5	50	μg/L	N/A	9/25/01	WGC22171	EPA 8020			
Xylenes, Total	12000		100	0.5	50	μg/L	N/A	9/25/01	WGC22171	EPA 8020			
					Surroga	ıte	Surr	ogate Recover		troi Limits (%)			
				BS	a-Trifluoro	toluene		81	•	55 - 135			
Parameter	Result	Fing	DF	PQL	DLR	Uaits	Extraction Date	Analysis Date	QC Batch ID	Mathod			
Methyl-t-butyl Ether	1500		100	5	500	μg/L	N/A	9/25/01	WGC22171	EPA 8020			
rromji v varji Dave				Surrogate			Surr	ogate Recover	y Control Limits (%)				
		aaa-Trifluorotoluene					81	65 - 135					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method			
	3.15		25	20	500	μg/L	N/A	9/26/01	WMS31183	EPA 8260B			
tert-Butanoi	ND			5	125	μg/L	N/A	9/26/01	WM\$31183	EPA 8260B			
Methyl-t-butyl Ether	2200		25 25	5	125	μg/L μg/L	N/A	9/26/01	WMS31183	EPA 8260B			
Diisopropyl Ether	ND ND		25 25	5	125	μg/L	N/A	9/26/01	WMS31183	EPA 8260B			
Ethyl-t-butyl Ether	ND		25 25	5	125	ր ց /Ն	N/A	9/26/01	WMS31183	EPA 8260B			
tert-Amyl Methyl Ether	NU		23	,	Surroga		•	gate Recover		rol Limita (%)			
				4-Bromofluorobenzene		127		65 - 135					
				Dibromofluoromethane			111		57 - 139				
		-		22.2	Toluene-			122	6	5 - 135			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method			
IPH as Gasoline	42000		100	50	5000	μ g/ L	N/A	9/25/01	WGC22171	EPA 8015 MOD (Purgeable)			
					Surroga	te	Surre	gate Recovery	Cont	rol Limits (%)			
				222	ı-Trifluorot		_	86	6	5 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Sierra Environmental, Inc.

1670 Newhall Street

Santa Clara, CA 95050

Attn: Mitch Hajiaghai

Date: 9/28/01

Date Received: 9/20/01

Project Name: ABF Petroleum IIC

Project Number: 01-103 05

P.O. Number: 01-103 05

Sampled By: Mitch Hajiaghai

Certified Analytical Report

Order ID: 26989	Lab Sa	unple ID:	2698	39-003		Client Sam	ple ID: MV	V-3			
Sample Time:		Sample Date: 9/20/			/01]	Matrix: Liq	quiđ		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	3800		100	0.5	50	μe/L	N/A	9/25/01	WGC22171	EPA 8020	
Toluene	260		100	0.5	50	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
Ethyl Benzene	2500		100	0.5	50	μ g /L	N/A	9/25/01	WGC22171	EPA 8020	
Xylenes, Total	6600		100	0.5	50	μg/L	N/A	9/25/01	WGC22171	EPA 8020	
• ,					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)	
				aa	a-Trifluoro	otoluene		85	6.	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis · Date	QC Batch ID	Method	
Methyl-t-butyl Ether	3500		100	5	500	μg/Ĺ	N/A	9/25/01	WGC22171	EPA 8020	
	• •			Surroga		nte	Surrogate Reco		Conti	ol Limits (%)	
		and-Trifluorotoluene				toluene		85	65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
tert-Butanol	630		25	20	500	μ ց /[[_	N/A	9/26/01	WMS31183	EPA 8260B	
Methyl-t-butyl Ether	5300		25	5	125	μg/L	N/A	9/26/01	WMS31183	EPA 8260B	
Diisopropyl Ether	ND		25	5	125	μg/L	N/A	9/26/01	WMS31183	EPA 8260B	
Ethyl-t-butyl Ether	ND		25	5	125	μ g/ L	N/A	9/26/01	WMS31183	EPA 8260B	
test-Amyl Methyl Ether	ND		25	5	125	μg/L	N/A	9/26/01	WM\$31183	EPA 8260B	
	, -				Surroga		Surre	gate Recovery	y Control Limits (%)		
				4-B	romofluoro			125	65	5 - 135	
				Dib	romofluoro				<i>5</i> 7 - 139		
		•			Toluene-	48		123	65	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH 28 Gasoline	30000		100	50	5000	µg/L	N/A	9/25/01	WGC22171	EPA 8015 MOD (Purgeable)	
					Surroga	te	Surro	gate Recovery	Contr	ol Limits (%)	
				222	-Trifluoro		90		65 - 135		

DF - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983



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Project Na	ame:	ARE Petro	leum II C	F	Project No:	_01-	103 05		Dat	te:	3/20/	oi		
Project Lo	ocation:	17715 Mis	sion Blvd		Client: AB	E Petr	oleum		Saı	mpler:	Mitch H	lajiaghai		
Sample ID	Date Sampled	Sampling Time	Matrix	Nº of Containers			A	nalysis Re	quested			Turnaround Time		
					8015/8020 TPHG BTEX, MTBE	8015 TPHD	418.1 TRPH	8010 VOCs	8270 SVOCs	Total Lead	fuel Opti evice			
MM-1	9/20/01	,	Water	5	X		á	26989-	001		×	24-hour Other	Normal	
MW-2								_	<i>0</i> 02.			24-hour Other	Normal	
MW-3	V		V	V	V				003		V	24-hour Other	Normal	
												24-hour Other	Normal	
					· · · · · · · · · · · · · · · · · · ·			-				24-hour Other	Normal	
							ļ					24-hour Other	Normal	
												24-hour Other	Normal	
Remarks:	<i></i>													
Relinquished (96y//Z	lyer	<u></u>	9/20/	0/ 15	Time 5	Received	by fee	Peads		4	ate 20 0 (Time 1600	
Relinquished	d by W			Date		Time	Received	by				ate	Time	



SIERRA ENVIRONMENTAL, INC. Environmental Consultants

GROUNDWATER MONITORING DATA FORM

Project No: Q1-103.05 Project Name: ABE Petroleum LLC Well Nº: MW1 Field Personnel: Mitch Hajiaghai Project Location: 17715 Mission Blvd, Hayward											
PURGE WATER VOLUME	Total Well Depth (ft)	Depth to Water (ft	Water Column (ft)	Cas	Multiplie sing Dian		Casing Volume (gal)	Purged Volume (gal)			
CALCULATION	33.25	23.56	9.69	0.16	4" 0.64	6" 1.44	1.55	4.65			
Purge Method: BaileR Measuring Reference: Top of Well Casing											
Time		11:20	> 11=21	ž [:	30	11:37		.#			
Volume Purged (gal)		0	1.5	2	>	4.65					
Temperature (° F)		73.8	3 70,4	69	_	69.5		`			
рН		10015	5-98	> 10.0	39	5.87					
Specific Conductivity (umhos/cm)	500	480	49	٥	490		<u> </u>			
Turbidity/Color		CAREE		12	<u> </u>						
Odor		HC 000		· +>>							
Comments:	1C SI	~en,	HC (والم	<u> </u>						



GROUNDWATER MONITORING DATA FORM Date: Project No: 01-103.05 Well Nº: MW2 Project Name: ABE Petroleum LLC Weather: Field Personnel: Mitch Hajiaghai Project Location: 17715 Mission Blvd, Hayward Casing Volume Purged Water Column Multiplier Total Well Depth to PURGE Volume (gal) Casing Dlameter (gal) WATER VOLUME Depth (ft) Water (ft CALCULATION 33.75 0.64 1.44 0.16 Purge Method: Sailer Measuring Reference: Top of Well Casing 11:02 Time Volume Purged (gal) Temperature (° F) рΗ Specific Conductivity (umhos/cm) [2012 Turbidity/Color HC ODDR Odor Comments:



GROUNDWATER MONITORING DATA FORM Date: Project No: 01-103.05 Well Nº: MW3 Project Name: ABE Petroleum LLC Weather: Fleid Personnel: Mitch Hajiaghai ... Project Location: 17715 Mission Blvd, Hayward Purged Casing Volume Multiplier Water Column Depth to PURGE Total Well Volume (gal) Casing Diameter (gal) **WATER VOLUME** Water (ft (ft) Depth (ft) **CALCULATION** 33.75 0.16 0.64 1.44 Bailer Measuring Reference: Top of Well Casing Purge Method: Time Volume Purged (gal) Temperature (° F) ρН Specific Conductivity (umhos/cm) **Turbidity/Color** Odor Comments: STRONG HC ODOR



CHAIN OF CUSTODY Project Name: __ABE Petroleum 11 C Project No: _01-103.05 Date: Project Location: 17715 Mission Blvd Client: ABE Petroleum Sampler: Mitch Hajiaghai Sample Date Sampling Matrix **Analysis Requested** Nº of **Turnaround Time** ID Sampled Time Containers Fred 8015/8020 8015 8010 8270 Total 418.1 **TPHG** TPHD **TRPH VOCs SYOCs** Lead DOP **BTEX, MTBE** ووروه MW-Water 24-hour Normal (0 Other 24-hour Normal MW-2 24-hour MW-3 Normal Other Normal 24-hour 24-hour Normal Other 24-hour Normal Other 24-hour Normal Other Remarks: Relinquished/by/ Received by Date Time 9/20/01 1600 Relinguished by Time Date Date