3R - 079

MONITORING REPORT

05/11/2005

AES

Animas Environmental Services, LLC

624 E. Comanche • Farmington, NM 87401
TEL 505-564-2281 • FAX 505-324-2022

April 18, 2005

Mr. William Olson
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Mr. Denny Foust
New Mexico Oil Conservation Division
District 3 Office
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Annual Groundwater Monitoring and Sampling Report for the Burlington Resources Oil and Gas Company's Thomas No. 1 Well Location, Bloomfield, New Mexico

Dear Sirs:

Pursuant to New Mexico Oil Conservation Division (OCD) requirements, Animas Environmental Services, LLC (AES), on behalf of Clayton Investments, submits this Annual Groundwater Monitoring and Sampling Report for 2004 for the Burlington Resources Oil and Gas Company's Thomas No.1 well, which is located west of Bloomfield in the NW ¼, SW ¼, Section 30, T29N, R11W, San Juan County, New Mexico. A site location map is included as Figure 1.

GROUNDWATER MONITORING AND SAMPLING

On July 12, 2004, and January 3, 2005, BioTech Remediation, Inc. (BioTech) personnel completed groundwater elevation monitoring at all five monitoring wells located at the site and collected groundwater samples from monitoring wells MW-2 and MW-3 for laboratory analysis of volatile organics per EPA Method 8021 and $C_6 - C_{10}$ range total petroleum hydrocarbons (TPH) per EPA Method 8015. All samples were submitted to Pinnacle Laboratories in Albuquerque, New Mexico, for analysis. Laboratory analytical reports are found in Appendix A.

Depth to Groundwater Measurements and Hydraulic Gradient

Depth to groundwater measurements for all wells were made with a Heron Electronic Water Level and recorded prior to sampling activities. Depths to groundwater were generally consistent with those observed during previous monitoring events. During the July, 2004, event, depth to groundwater measurements ranged from 3.40 feet below ground surface (bgs) in MW-3 up to 5.13 feet bgs in MW-5. In January, 2005, groundwater elevations were observed to have increased by approximately 0.5 foot

across the site, and depth to groundwater ranged from 2.82 feet bgs in MW-3 up to 4.60 feet bgs in MW-5. Based on the depth to groundwater measurements during both sampling events, the hydraulic gradient was calculated at 0.003 ft/ft in a southwest direction. Historical groundwater elevation data is summarized in Table 1, and groundwater elevation data for the July 12, 2004, and January 3, 2005, monitoring events are included on Figures 2 and 3, respectively.

Groundwater Sample Collection

Following well measurement during each sampling event, MW-2 and MW-3 were each purged of about three well volumes with disposable bailers, and a groundwater sample was collected from each well. The groundwater samples were then transferred into appropriate sample containers with a slow release valve, labeled accordingly, and the Chain of Custody Record was completed. The samples were subsequently stored in an insulated cooler at approximately 4°C and transported to Pinnacle Laboratories, Albuquerque, New Mexico, for laboratory analyses.

Dissolved Phase Contaminant Concentrations

Analytical results of the groundwater samples collected from MW-2 during the July 12, 2004, and January 3, 2005, sampling events indicate that petroleum hydrocarbon contaminants continue to impact groundwater at the site within a limited area. During the July 12, 2004, event, the benzene concentration in MW-2 exceed the New Mexico WQCC standard of 10 µg/L with a concentration of 89 µg/L, and the reported xylene concentration exceeded the New Mexico WQCC standard of 620 µg/L with 1,100 µg/L. Results of the January 3, 2005 sampling event showed that only the benzene concentration measured in MW-2 exceeded the New Mexico WQCC standard with a reported concentration of 16 µg/L.

Historical groundwater contaminant concentration data is summarized in Table 2. Groundwater contaminant concentration data for the July 12, 2004, and January 3, 2005, sampling events are included on Figures 2 and 3, respectively.

CONCLUSIONS

Based on groundwater elevation data, the hydraulic gradient at the site was calculated to be approximately 0.003 ft/ft in a southwest direction. Analytical results from both sampling events indicate that contaminant concentrations exceeded the WQCC standard for benzene in MW-2. MW-2 had xylene concentrations during the July 12, 2004, event, which also exceeded the WQCC standard.

The next groundwater monitoring and sampling event is scheduled to be conducted at the site in July, 2005. If you have any questions regarding this report, please contact Ms. Terry Griffin, BioTech, at (505) 327-4965.

Sincerely,

Ross Kennemer
Project Manager

Cc: Terry Griffin
BioTech Remediation
501 Airport Drive, Suite 104
Farmington, NM 87401

Attachments: Tables
Figures
Appendix A. Laboratory Analytical Results

Files:2005/Thomas Wells/2004 Annual Monitoring and Sampling Report.doc

TABLE 1. WATER QUALITY AND WELL DATA

Burlington Resources Oil and Gas Company's Thomas No. 1 Location, Bloomfield, NM

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH
MW-1	09/07/01	5376.91	4.69	5372.22				
	02/04/02		3.66	5373.25				
	07/30/02		4.14	5372.77				
	12/04/02		3.47	5373.44				
	07/03/03		3.15	5373.76				
	12/19/03		3.53	5373.38				
	07/12/04		4.05	5372.86				
	01/03/05		3.50	5373.41				
MW-2	09/07/01	5376.97	4.99	5371.98				
	02/04/02		4.21	5372.76				
	07/30/02		4.61	5372.36				
	12/04/02		4.05	5372.92				
	07/03/03		4.45	5372.52				
	12/19/03		4.06	5372.91				
	07/12/04		4.60	5372.37				
	01/03/05		4.22	5372.75				
MW-3	09/07/01	5375.56	4.10	5371.46				
	02/04/02		2.46	5373.10				
	07/30/02		3.47	5372.09				
	12/04/02		2.69	5372.87				
	07/03/03		3.54	5372.02				
	12/19/03		2.78	5372.78				
	07/12/04		3.40	5372.16				
	01/03/05		2.82	5372.74				
MW-4	09/07/01	5375.56	3.91	5371.65				
	02/04/02		2.82	5372.74				
	07/30/02		3.53	5372.03				
	12/04/02		2.81	5372.75				
	07/03/03		3.38	5372.18				
	12/19/03		2.87	5372.69				
	07/12/04		3.46	5372.10				
	01/03/05		3.00	5372.56				
MW-5	09/07/01	5376.35	5.86	5370.49				
	02/04/02		4.19	5372.16				
	07/30/02		5.27	5371.08				
	12/04/02		4.49	5371.86				
	07/03/03		3.89	5372.46				
	12/19/03		4.23	5372.12				
	07/12/04		5.13	5371.22				
	01/03/05		4.60	5371.75				

TABLE 2. GROUNDWATER ANALYTICAL RESULTS

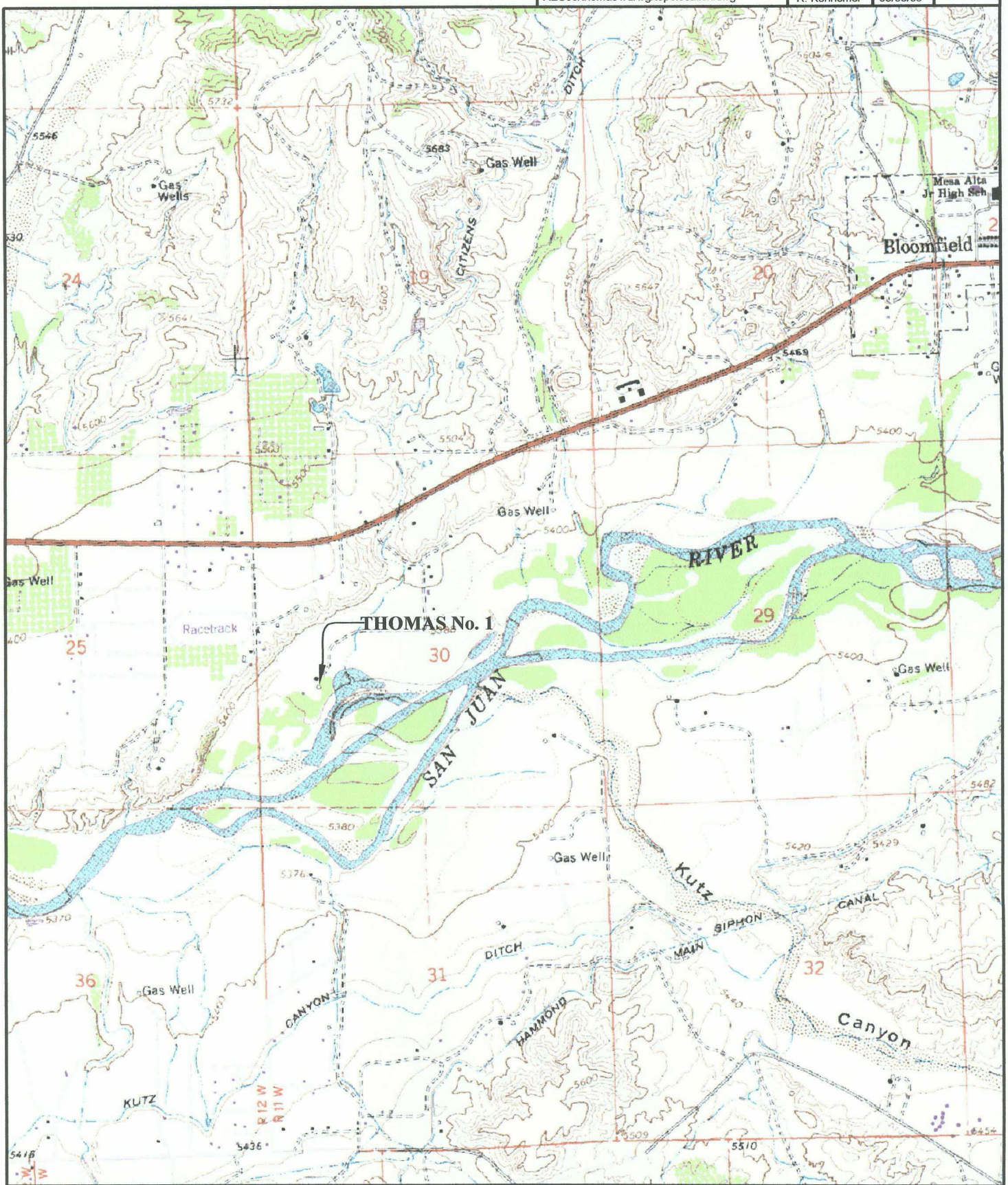
Burlington Resources Oil and Gas Comapny's Thomas No. 1 Location, Bloomfield, NM

Sample ID	Sample Date	Analytical Method	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH C6 - C10 (mg/L)
NM WQCC Standards			10	750	750	620	100	NE
MW-1	09/07/01	8021/8015	ns	ns	ns	ns	ns	ns
	02/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/30/02	8021/8015	ns	ns	ns	ns	ns	ns
	12/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/03/03	8021/8015	ns	ns	ns	ns	ns	ns
	12/19/03	8021/8015	ns	ns	ns	ns	ns	ns
	07/12/04	8021/8015	ns	ns	ns	ns	ns	ns
	01/03/05	8021/8015	ns	ns	ns	ns	ns	ns
MW-2	09/07/01	8021/8015	<2.5	<2.5	25	63.2	<5.0	ns
	02/04/02	8021/8015	**120**	9.0	76	373.6	2.8	ns
	07/30/02	8021/8015	**50**	<2.5	49	245.6	<5.0	ns
	12/04/02	8021/8015	**87**	<2.5	67	270	<13	ns
	07/03/03	8021/8015	**150**	<2.5	87	430	<13	ns
	12/19/03	8021/8015	**56**	<2.5	74	150	<13	ns
	07/12/04	8021/8015	**89**	3.4	110	**1100**	<13	5.1
	01/03/05	8021/8015	**16**	<2.5	35	420	<13	2.4
MW-3	09/07/01	8021/8015	**130**	<0.5	51	372.9	<1.0	<3.0
	02/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/30/02	8021/8015	<0.5	2.3	9.5	8.6	<1.0	ns
	12/04/02	8021/8015	0.6	1.7	2.4	6.2	<2.5	ns
	07/03/03	8021/8015	<0.5	2.3	6.2	8.5	<2.5	ns
	12/19/03	8021/8015	<0.5	1.2	6.6	9.5	<2.5	ns
	07/12/04	8021/8015	0.6	1.7	12	12	<2.5	0.6
	01/03/05	8021/8015	<0.5	1.7	5.7	7.0	<2.5	0.4
MW-4	09/07/01	8021/8015	ns	ns	ns	ns	ns	ns
	02/04/02	8021/8015	<0.5	6.9	8.2	18.7	1.0	ns
	07/30/02	8021/8015	ns	ns	ns	ns	ns	ns
	12/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/03/03	8021/8015	ns	ns	ns	ns	ns	ns
	12/19/03	8021/8015	ns	ns	ns	ns	ns	ns
	07/12/04	8021/8015	ns	ns	ns	ns	ns	ns
	01/03/05	8021/8015	ns	ns	ns	ns	ns	ns
MW-5	09/07/01	8021/8015	ns	ns	ns	ns	ns	ns
	02/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/30/02	8021/8015	ns	ns	ns	ns	ns	ns
	12/04/02	8021/8015	ns	ns	ns	ns	ns	ns
	07/03/03	8021/8015	ns	ns	ns	ns	ns	ns
	12/19/03	8021/8015	ns	ns	ns	ns	ns	ns
	07/12/04	8021/8015	ns	ns	ns	ns	ns	ns
	01/03/05	8021/8015	ns	ns	ns	ns	ns	ns

Notes:

<	Analyte not detected above listed method limit
(µg/L)	Micrograms per Liter (ppb)
(mg/L)	Milligrams per Liter (ppm)
ns	Not Sampled

DRWG FILE: AES05/thomas1/drwg/topolocation.dwg	Drawn By: R. Kennemer	Date: 03/08/05	Project No.



AES
Animas Environmental Services, LLC

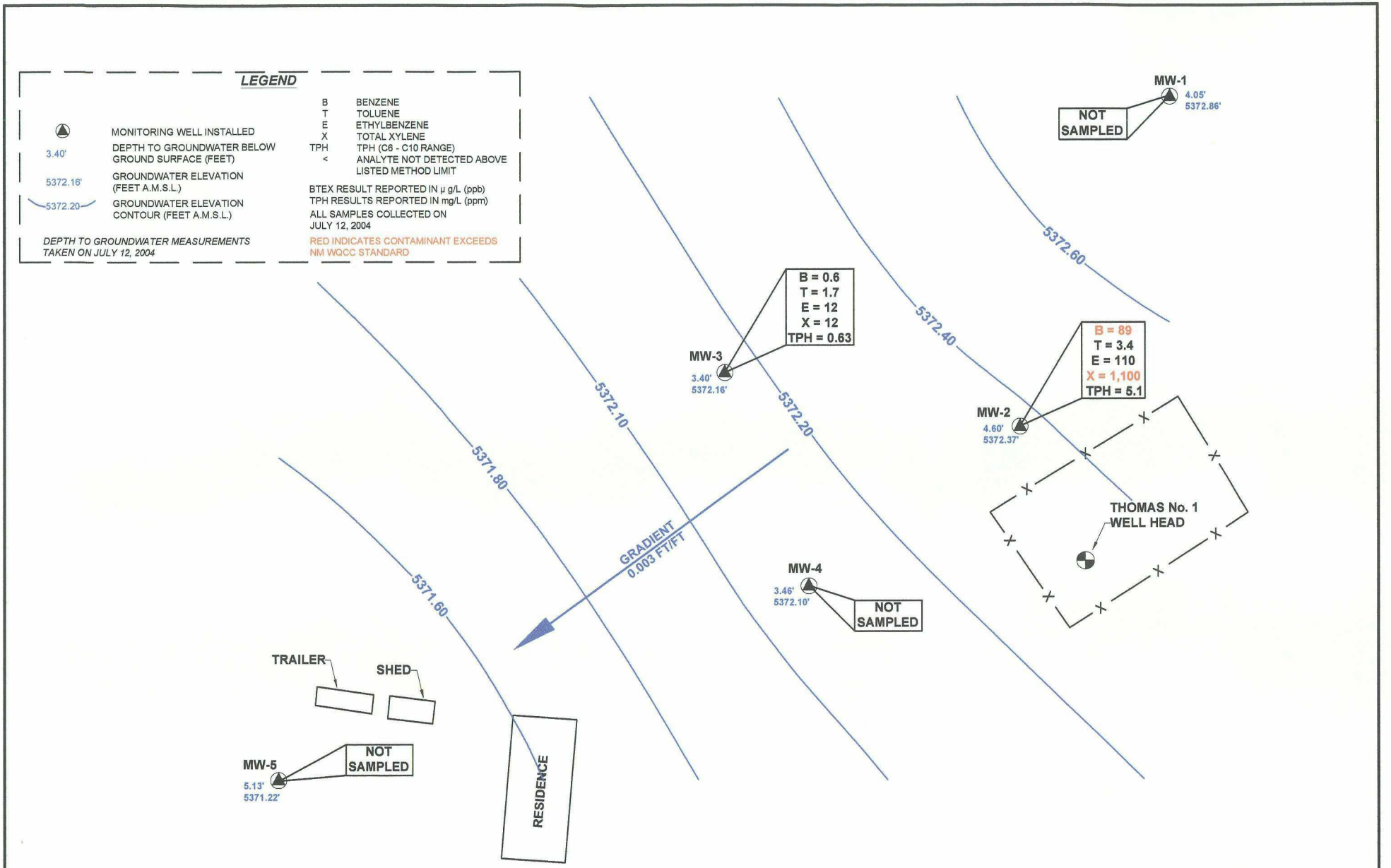
SCALE
1,000 0 2,000
(1 INCH = 2,000 FEET)

BURLINGTON RESOURCES
OIL AND GAS COMPANY'S
THOMAS No. 1
NW1/4, SW1/4, SECTION 30,
T. 29N, R 11W,
SAN JUAN COUNTY, NM

FIGURE 1

SITE LOCATION MAP

HORN CANYON
QUAD. 1965, REV. 1979



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60 30 0 60

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(1 INCH = 60 FEET)

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AES

Animas Environmental Services, LLC

BURLINGTON RESOURCES OIL AND GAS COMPANY'S THOMAS No. 1 WELL BLOOMFIELD, NM

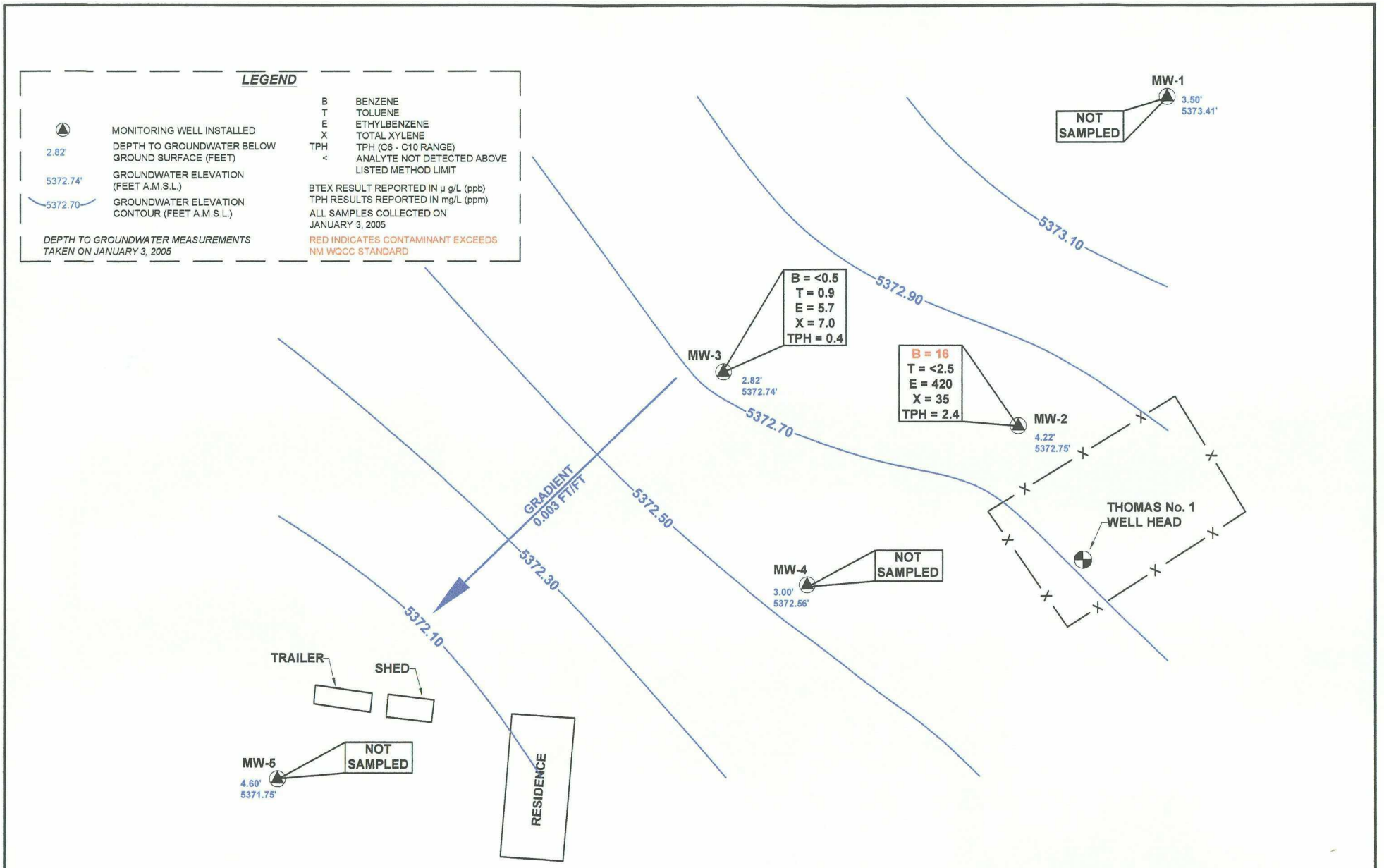
Drn. By: MRK Date: 03/8/05

Rev. By: Date:

file:thomasno.1/siteplan.dwg

FIGURE 2

SITE MAP WITH MONITORING AND SAMPLING RESULTS JULY, 2004



SCALE

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(1 INCH = 60 FEET)

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AES

Animas Environmental Services, LLC

BURLINGTON RESOURCES
OIL AND GAS COMPANY'S
THOMAS No. 1 WELL
BLOOMFIELD, NM

Drn. By:	MRK	Date:	03/8/05
Rev. By:		Date:	

file:thomasno.1/siteplan.dwg

FIGURE 3

SITE MAP WITH MONITORING AND SAMPLING RESULTS JANUARY, 2005

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **501101**
January 21, 2005

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name (NONE)
Project Number THOMAS WELLS

Attention: TERRY GRIFFIN

On 01/15/2005 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 501101
PROJECT #	: THOMAS WELLS	DATE RECEIVED	: 01/15/2005
PROJECT NAME	: (NONE)	REPORT DATE	: 01/21/2005

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
501101 - 01	MW #2	AQUEOUS	01/10/2005
501101 - 02	MW #3	AQUEOUS	01/10/2005

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : THOMAS WELLS
PROJECT NAME : (NONE)

PINNACLE I.D. : 501101
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW #2	AQUEOUS	01/10/2005	NA	01/18/2005	5
02	MW #3	AQUEOUS	01/10/2005	NA	01/18/2005	1

PARAMETER	DET. LIMIT	UNITS	MW #2	MW #3
FUEL HYDROCARBONS	**0.10**	**MG/L**	**2.4**	**0.38**
HYDROCARBON RANGE			**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**16**	< 0.5
TOLUENE	**0.5**	**UG/L**	< 2.5	**0.9**
ETHYLBENZENE	**0.5**	**UG/L**	**35**	**5.7**
TOTAL XYLENES	**1.0**	**UG/L**	**420**	**7.0**
METHYL-t-BUTYL ETHER	2.5	UG/L	< 13	< 2.5
SURROGATE:				
BROMOFLUOROBENZENE (%)			112	120
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 501101
BLANK I.D.	: 011705	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/17/2005
PROJECT #	: THOMAS WELLS	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (NONE)	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<1.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		99
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 501101
BATCH #	: 011705	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/17/2005
PROJECT #	: THOMAS WELLS	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (NONE)	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.973	97	0.914	91	6	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 501101
BATCH #	: 011705	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/17/2005
PROJECT #	: THOMAS WELLS	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (NONE)	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.6	103	20.6	103	0	(80 - 120)	20
TOLUENE	<0.5	20.0	20.7	104	20.7	104	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.6	103	20.7	104	0	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	61.8	103	62.2	104	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	18.5	93	18.9	95	2	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 501101
MSMSD #	: 501101-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/18/2005
PROJECT #	: THOMAS WELLS	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (NONE)	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	0.38	1.00	1.28	90	1.21	83	6	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 501101
MSMSD #	: 501099-04	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/18/2005
PROJECT #	: THOMAS WELLS	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (NONE)	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.2	101	20.4	102	1	(80 - 120)	20
TOLUENE	<0.5	20.0	20.5	103	20.4	102	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.3	102	20.2	101	0	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	61.3	102	60.9	102	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	18.6	93	18.8	94	1	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: ________ PAGE: 1 OF 1

PLI Accession #: 501101

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Terry Griffin

COMPANY: Biotech Remediation Inc.
ADDRESS: 501 Airport Dr. Suite 104
Farmington, NM 87401
PHONE: 505-327-4965
FAX:
BILL TO:
COMPANY:
ADDRESS:

ANALYSIS REQUEST: Petroleum Hydrocarbons (418.1) TRPH; (MOD.8015) Diesel/Direct Inject; (M8015) Gas/Purge & Trap; 8021 (BTEX)/8015 (Gasoline) MTBE; 8021 (BTEX) ☐MTBE ☐TMB ☐PCE; 8021 (TCL); 8021 (EDX); 8021 (HALO); 8021 (CUST); 504.1 EDB ☐/DBCP ☐; 8260 (TCL) Volatile Organics; 8260 (Full) Volatile Organics ☐PBMS; 8260 (CUST) Volatile Organics; 8260 (Landfill) Volatile Organics; Pesticides/PCB (608/8081/8082); Herbicides (615/8151); Base/Neutral/Acid Compounds GC/MS (625/8270); Polynuclear Aromatics (610/8310/8270-SIMS); General Chemistry:; Priority Pollutant Metals (13); Target Analyte List Metals (23); RCRA Metals (8); RCRA Metals by TCLP (Method1311); Metals:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	8021 (BTEX)/8015 (Gasoline) MTBE	NUMBER OF CONTAINERS
MW#2	1-10-4	1117	H2O	01	✓	2
MW#3	1-10-4	1141	H2O	02	✓	2

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.: Thomas Wells
PROJ. NAME:
P.O. NO.:
SHIPPED VIA: Bus

SAMPLE RECEIPT

NO. CONTAINERS	4
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	Y/S
BLUE ICE/ICE	5.7°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐1 WEEK (NORMAL) ☐
*NOT AVAILABLE ON ALL ANALYSES
CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER
METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED
COMMENTS:

RELINQUISHED BY: 1
Signature: M Beaupmant Time: 0900
Printed Name: Mike Beaupmant Date: 1-14-5
Company: Biotech
See Reverse side (Force Majeure)

RECEIVED BY: 1
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2
Signature: [signature] Time: 0647
Printed Name: [illegible] Date: 1-15-05
Pinnacle Laboratories Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **407072**
July 20, 2004

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name Thomas Wells
Project Number (None)

Attention: Terry Griffin

On 07/14/04 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 407072
PROJECT #	: (None)	DATE RECEIVED	: 07/14/04
PROJECT NAME	: Thomas Wells	REPORT DATE	: 07/20/04

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
407072 - 01	MW # 2	AQUEOUS	07/12/04
407072 - 02	MW # 3	AQUEOUS	07/12/04
407072 - 03	TB	AQUEOUS	07/06/04

PINNACLE LABORATORIES

Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (None)
PROJECT NAME : Thomas Wells

PINNACLE I.D.: 407072
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW # 2	AQUEOUS	07/12/04	NA	07/15/04	5
02	MW # 3	AQUEOUS	07/12/04	NA	07/15/04	1
03	TB	AQUEOUS	07/06/04	NA	07/15/04	1

PARAMETER	DET. LIMIT	UNITS	MW # 2	MW # 3	TB
FUEL HYDROCARBONS	**0.10**	**MG/L**	**5.1**	**0.63**	< 0.10
HYDROCARBON RANGE			**C6-C14**	**C6-C14**	C6-C14
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**	GASOLINE
BENZENE	**0.5**	**UG/L**	**89**	**0.6**	< 0.5
TOLUENE	**0.5**	**UG/L**	**3.4**	**1.7**	< 0.5
ETHYLBENZENE	**0.5**	**UG/L**	**110**	**12**	< 0.5
TOTAL XYLENES	**1.0**	**UG/L**	**1100**	**12**	< 1.0
METHYL-t-BUTYL ETHER	2.5	UG/L	< 13	< 2.5	< 2.5
SURROGATE:					
BROMOFLUOROBENZENE (%)			110	116	101
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 407072
MSMSD #	: 407072-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/15/04
PROJECT #	: (None)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: Thomas Wells	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	0.6	20.0	21.7	106	22.1	108	2	(80 - 120)	20
TOLUENE	1.7	20.0	22.6	105	22.8	106	1	(80 - 120)	20
ETHYLBENZENE	12	20.0	33.1	106	33.3	107	1	(80 - 120)	20
TOTAL XYLENES	12	60.0	74.5	104	76.0	107	2	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	22.6	113	22.8	114	1	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7-12-04 PAGE: 1 OF 1

PLI Accession #: 10-7072

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Terry Griffin

COMPANY: Biotech Remediation Inc.
ADDRESS: 501 Airport Dr.
Farmington, NM. 87401
PHONE:
FAX:

BILL TO:
COMPANY:
ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
MW #2	7-12-4	1135	AQ	-01
MW #3	"	1200	AQ	-02
TB	7.06	1725	AQ	-03

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:	CONTAINERS NUMBER
			✓																					2
			✓																					2
			✓																					2

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: Thomas Wells
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS: 3
CUSTODY SEALS: N/A (Y) N
RECEIVED INTACT: Y N
BLUE ICE (ICE) DRY

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☐
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1

Signature: Time: 0900
Printed Name: Mike Bemporad Date: 7-14-4
Company: Biotech
See Reverse side (Force Majeure)

RECEIVED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY (LAB): 2

Signature: Time: 1200
Printed Name: Date:
Company: Pinnacle Laboratories Inc.