

GW - 55

MONITORING REPORTS

DATE:

2001



April 25, 2002

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APR 0 3 2002
Environmental Bureau
Oil Conservation Division

Mr. Wayne Price
Petroleum Engineering Specialist
New Mexico Energy, Minerals and Natural Resources Dpt.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Thriftway Bloomfield Refinery
2001 Annual Groundwater Monitor Report

Dear Mr. Price,

Enclosed please find a copy of the Report entitled "2001 Annual Groundwater Monitor Report" for the above mentioned site.

If you have any questions please do not hesitate to contact me at 505.345.1116.

Sincerely,

Brad Billings
Billings & Associates, Inc.

Enclosure

Cc: Ms. Terry Griffin/BioTech/Thriftway
Mr. Denny Foust, Aztec Office, NM Oil Conservation Division

THRIFTWAY REFINERY
626 Road 5500
Bloomfield, New Mexico

April 2002

Prepared by
BILLINGS & ASSOCIATES, INC



2001 ANNUAL GROUNDWATER MONITOR REPORT

Prepared for
NEW MEXICO OIL CONSERVATION DIVISION
Mr. Wayne Price, Project Manager, Santa Fe Office
&
Mr. Denny Foust, Aztec, Office

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TABLE OF CONTENTS

Sections

- 1.0 INTRODUCTION
- 2.0 ANNUAL MONITORING AND SAMPLING ACTIVITIES
 - 2.1 Groundwater Measurement
 - 2.2 Groundwater Sample Collection and Analyses
 - 2.3 Sample Preservation and Handling
 - 2.4 Sample Transport
 - 2.5 Data Base Historic Laboratory Results
- 3.0 EQUIPMENT DECONTAMINATION
- 4.0 DISCUSSION AND RECOMMENDATIONS
- 5.0 SEPTEMBER 2001 NMOCD REQUESTS

Figures

- Figure 1 Water Level-Potentiometric Map (1/30, 1/31, and 2/02)
- Figure 2 Benzene Concentration Map
- Figure 3 MTBE Concentration Map
- Figure 4 Conductivity Contour Map
- Figure 4A Chloride Concentration Map
- Figure 4B TDS Concentration Map

Tables

- Table 1 Summary of Historic Groundwater Monitoring Data
- Table 1A Most Recent Summary of Groundwater Monitoring Data
- Table 2 Summary of Historic Groundwater Benzene and MTBE Laboratory Results
- Table 2A Most Recent Summary of Groundwater Benzene and MTBE Laboratory Results

Appendices

- Appendix A NMOCD Letter (September 2001)
- Appendix B Air stripper/influent/effluent Laboratory Analysis, QA/QC Data and COC Records
- Appendix B(1) Monitor Well Laboratory Analysis, QA/QC Data and COC Records
- Appendix C Soil Sample Laboratory Analysis, QA/QC Data and COC Records
- Appendix D BioTech (for Thriftway Letter (November 2001)

1.0 INTRODUCTION

Pursuant to and in compliance with the requirements of the New Mexico Oil Conservation Division (NMOCD), Billings & Associates, Inc. (BAI) is pleased to submit the following 2001 Annual Monitoring and Sampling Report for the Thriftway Bloomfield Refinery, located in Bloomfield, N.M. Site is located at 626 County Road 5500.

Submitted report details the monitoring and sampling data activities on refinery property. Water table elevations in monitor wells were collected on select wells in May and July 2001. All wells that could be found and which contained sufficient ground water for measurement, were assessed for depth to water in January and February of 2002. New influent and effluent water samples from the on site air stripper were collected through 2001, and January and February 2002. In September 2001, the NMOCD requested additional information on site aspects regarding Discharge Plan Renewal GW-055. **See Appendix A** These requests are answered by BioTech (for Thriftway) in a letter dated November 2001. A copy of this letter is included in **Appendix D**.

2.0 MONITORING/SAMPLING ACTIVITIES

BioTech personnel engaged in monitoring and sampling requirements for the Thriftway Bloomfield Refinery located in Bloomfield, New Mexico. Ground water gaging events occurred on 5/2/01, 5/3/01, 7/30/01, 7/31/01, 1/30/02, 1/31/02 and 2/01/02.

Air stripper influent and effluent samples from operating tower were collected for later laboratory analysis by EPA Method SW 8021B on November 1, 2001, December 4, 2001 and January 31, and February 28, 2002. Influent and effluent samples collected on January 31, 2002 were analyzed for the full suite of Methodologies as outlined below in section 2.2(2.2A). Hard copy of these data sheets, attendant chain of custody information and Quality Control Data are found in **Appendix B**.

Appendix B(1), contains this same grouping of information on the monitor wells sampled for laboratory analyses in January/February 2002.

Three soil samples were collected from on site soil stockpiles for analysis of reactive cyanide (by method SW-846), reactive sulfide (by method SW-846), ignitability (by method 1010M) and pH (by method 989). Hard copy of these data, sample information and chain of custody sheets are found in **Appendix C**.

2.1 GROUND WATER MEASUREMENT

At each gaging event, depth to ground water measurements were made and recorded for available monitor wells. A Solonist Probe was used to measure from the survey point at top of casing to identified ground water level. Data was generated to the nearest 100th of a foot. Historic depth to ground water data are summarized in **Table 1**. **Table 1A** displays most recent groundwater table information. Ground water measurements were collected in seven (7) monitor wells (MW's -04, -06, -08, -13, -15, -18 and -22) during the May and July 2001 dates. A total of twenty-eight (28) wells were measured during the January/February 2002 sampling event. These data have been corrected to measured elevations, where available, and were used to generate a potentiometric surface (as of the 2002 sample dates). This information is found on **Figure 1**.

2.2 Water Sample Collection

During transfer of water (influent and effluent) to sample container, care is taken to ensure that no head space or air bubbles remain in sample container and that a meniscus is created at top of sample container. Following closure of sample container, the sample was rotated and agitated, further ensuring that the sample container was void of free air.

During the January/February ground water sampling event, fourteen (14) monitor well locations were sampled for later laboratory analysis following appropriate purge of bore volumes and rebound time allotment. Samples were analyzed for and by the following methods: Alkalinity, Total (method M2320B), Anions by Ion Chromatography (method E300), Aromatic Volatiles by GC/PID (method SW8021B), Conductivity @ 25C (method E120.1), Hardness, Total (method M2340B), ICP Metals, Dissolved (method SW6010B), ICP Metals, Total (method SW6010B), Mercury, total (method SW7470), pH (method E150.1), Polynuclear Aromatic Hydrocarbons (method SW8270C), Total Dissolved Solids (method CALC) and Total Dissolved Solids (method E160.1). All samples were collected as per accepted New Mexico protocol/regulation.

2.3 Sample Preservation/Handling

All sample containers were appropriate for required testing and preserved as necessary for the requested analyses. All samples were handled/delivered as per accepted protocols.

2.4 Sample Transport

Following sample collection, each sample container was labeled for origin, time/date of collection, sample type, identification of sampler, preservative used and the requested laboratory analysis. Each sample was then logged of Chain of Custody data sheets. Samples requiring temperature reduction for shipping/transport were then placed in iced cooler.

2.5 Data Base

Available historic laboratory results are presented in **Table 2**. **Table 2A** details new data base containing sample results not included in Table 2 (for BTEX and MTBE). Data of ICP metals total, mercury, anions, ICP metals dissolved, alkalinity, conductivity, hardness, pH, total dissolved solids (both calculated and in residue), PAH's are found in **B1**.

3.0 EQUIPMENT DECONTAMINATION

To prevent cross-contamination and ensure valid data, BioTech personnel used strict decontamination protocol. For all monitor well measurement and sample collection, the following method for decontaminating equipment was employed:

- Wash with Alconox and distilled water
- Rinse with distilled water
- Wash with Alconox and distilled water
- Double rinse with distilled water

4.0 DISCUSSION AND RECOMMENDATIONS

Developed ground water flow direction indicates sufficient capture of the ground water contamination is being maintained by the currently operating ground water treatment system. This is in general agreement with historical data.

Figure 2 represents a ground water contour of dissolved benzene as of the January/February 2002 sampling event. **Figure 3** displays the MTBE ground water contour for the same sampling event. **Figures 4, 4A, 4B**, in mapped format, indicate the values for conductivity, chlorides and TDS as of the July 2001 sampling event.

Of the monitor wells sampled, the highest benzene value found was at MW-12 at 28 parts per billion (ppb). The highest MTBE value assessed during the same monitoring event was found at well MW-20 at 670 ppb.

Most recent influent and effluent water samples revealed the following: Influent was assessed at 890 ppb benzene. Effluent was assessed at 0.5 ppb benzene. These data indicate an adequately functional stripper system.

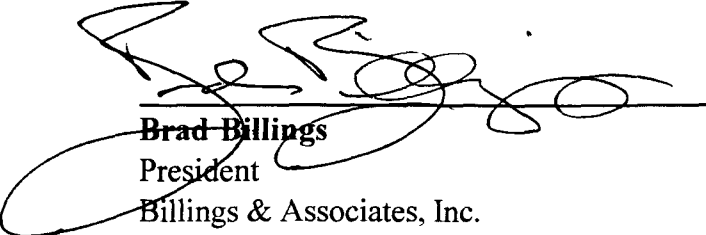
BAI believes the currently operating ground water recovery system is maintaining adequate hydraulic capture.

Overall dissolved ground water contamination data indicates site wide reduction in dissolved contaminant levels as of the January/February 2002 sampling date.

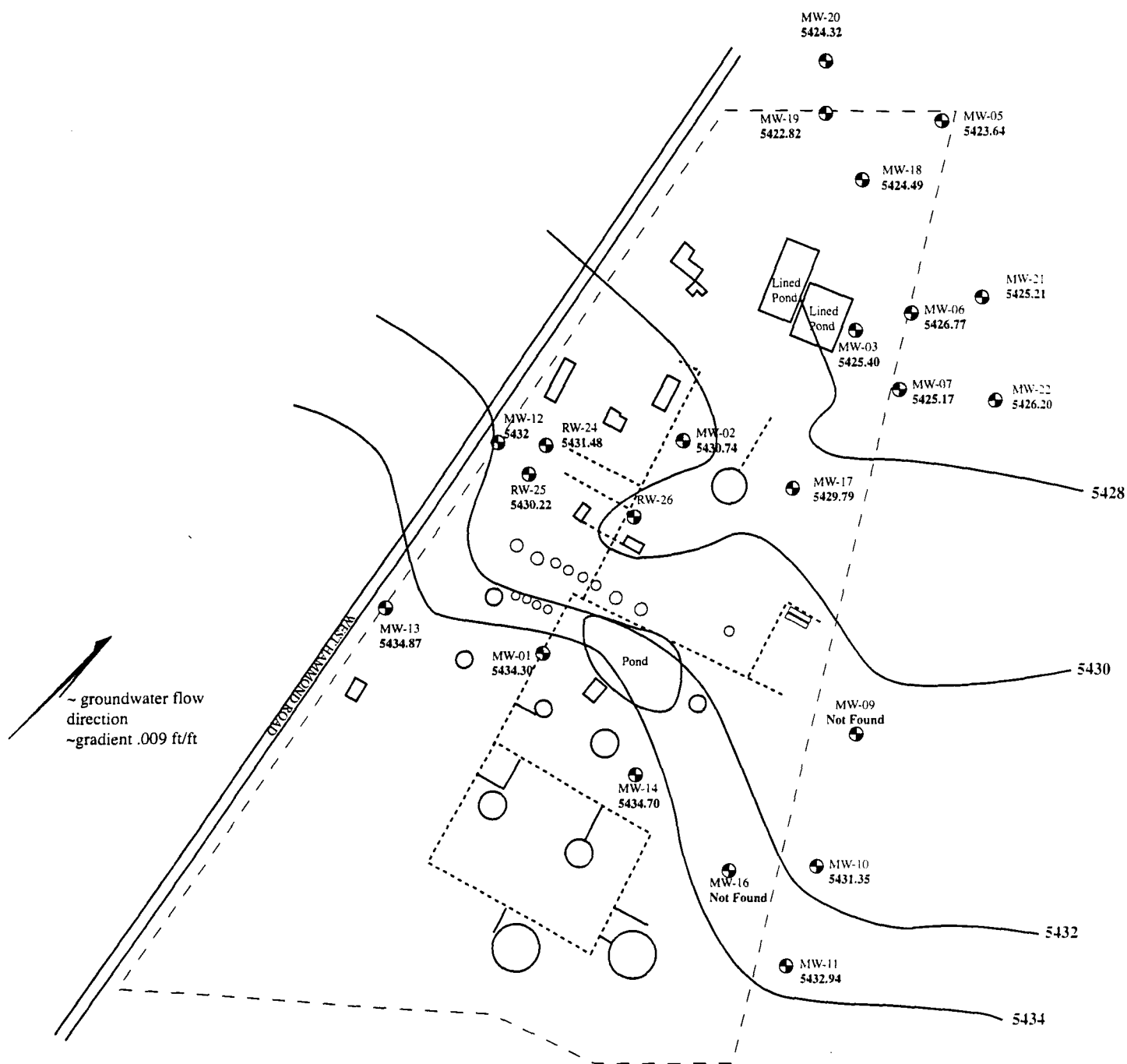
It is BAI's recommendation, based on current and historical data review, no additional work effort is needed beyond continued sampling by BioTech based on approved schedules.

5.0 SEPTEMBER 2001 NMOCD REQUESTS

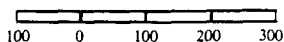
BioTech, on behalf of Thriftway, responded to a number of questions/data requests by the NMOCD in a letter dated November 19, 2001. A copy of this letter from BioTech is presented in **Appendix D**.



Brad Billings
President
Billings & Associates, Inc.



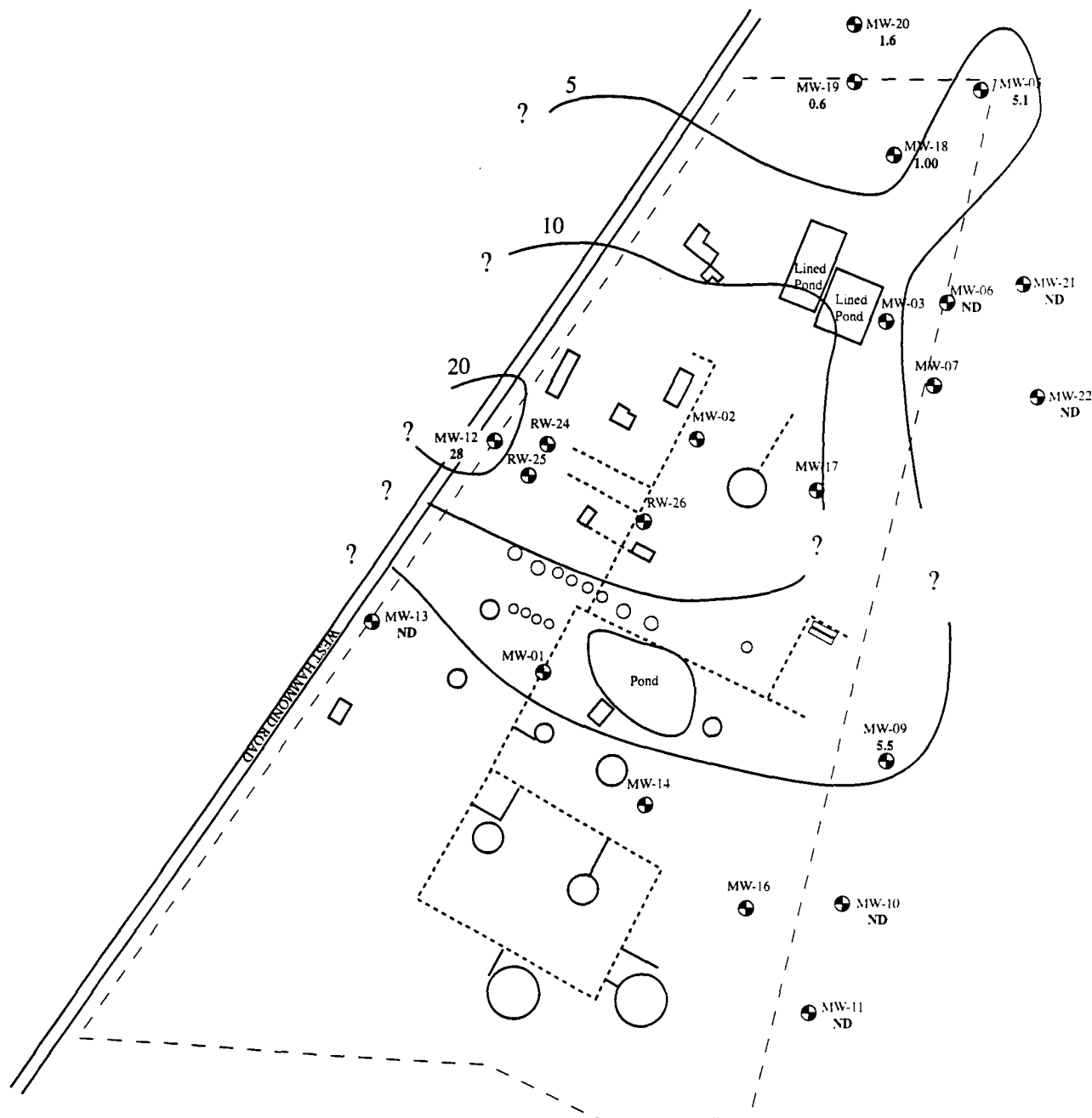
Approximate Scale (feet)



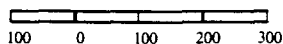
- monitoring well
- - - fence
- piping

taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 1	 BILLINGS & ASSOCIATES, INC.
DATE: 4/2/2002	Potentiometric Surface (1/30-31/2002)	
CASE NO:	Site Name: Thriftway Refinery	
UST FACILITY NO:	Site Location: 626 RD 5500	
	Bloomfield, NM	



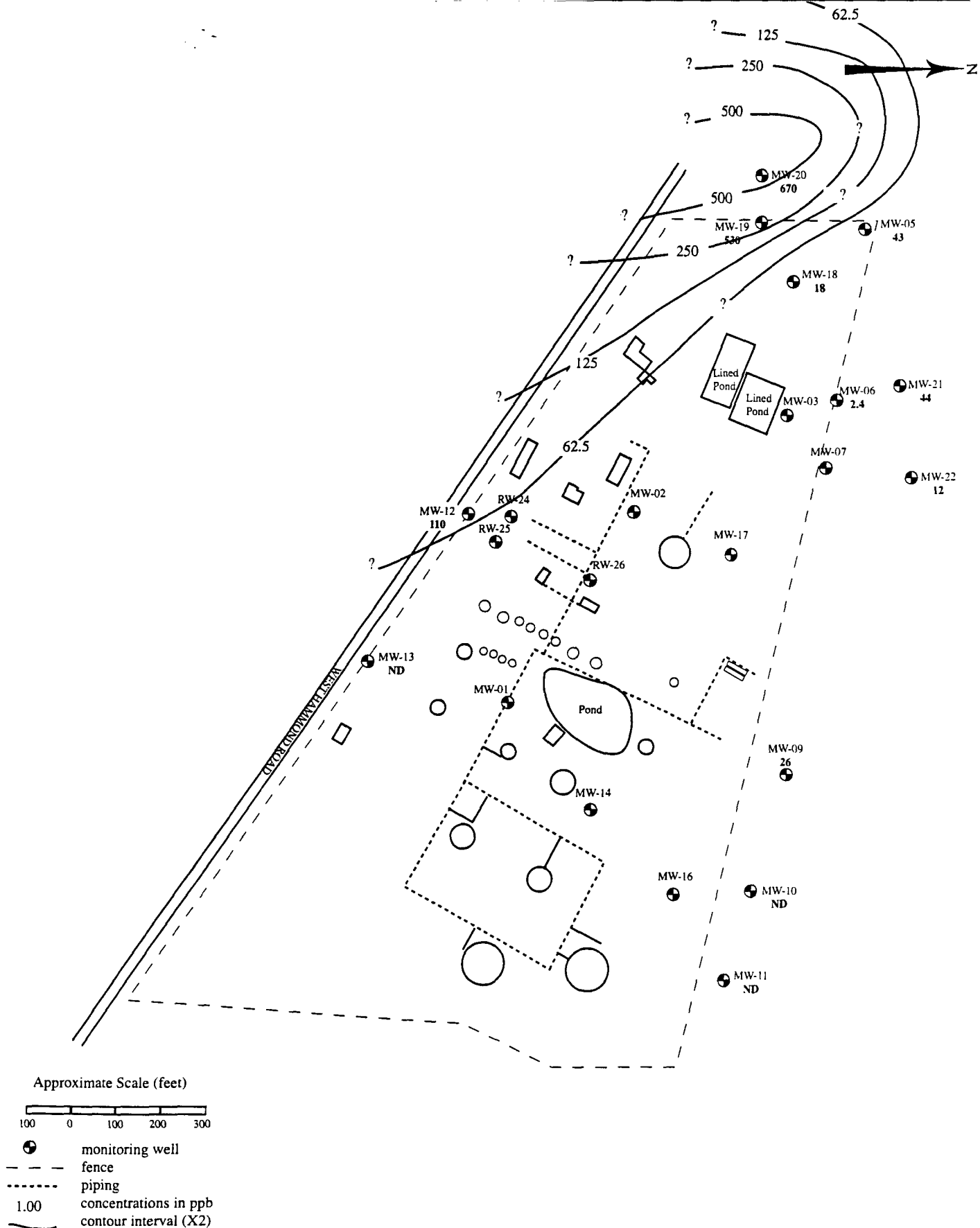
Approximate Scale (feet)



- monitoring well
- - - fence
- - - piping
- 1.00 concentrations ppb
- contour interval (X2)

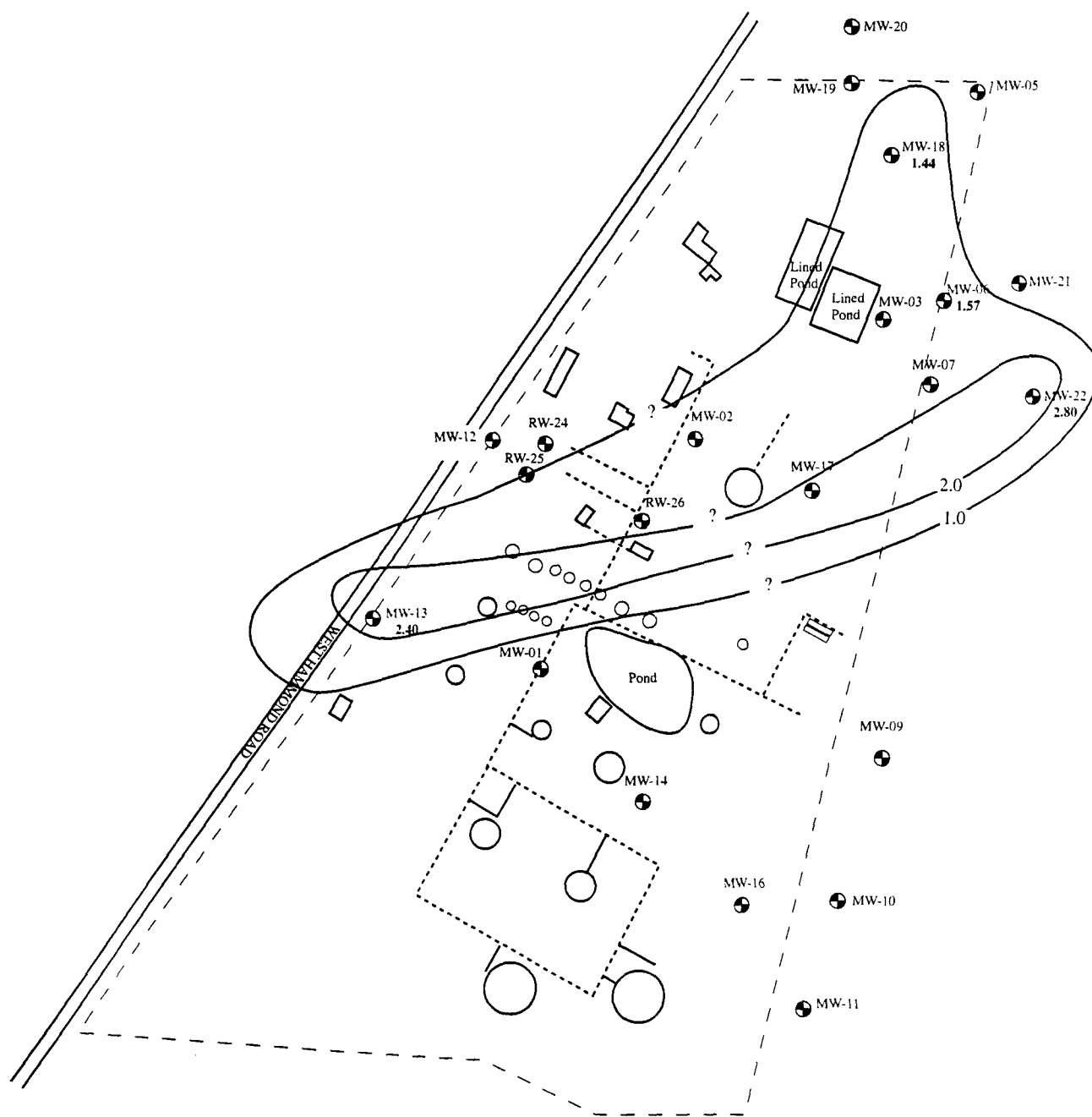
taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 2	BILLINGS & ASSOCIATES, INC.
DATE: 4/2/2002	Benzene Contour (1/30-31/2002)	
CASE NO:	Site Name: Thriftway Refinery	
UST FACILITY NO:	Site Location: 626 RD 5500	
	Bloomfield, NM	

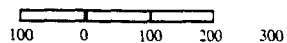


taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 3 MTBE Contour (1/30-31/2002) Site Name: Thriftway Refinery Site Location: 626 RD 5500 Bloomfield, NM	BILLINGS & ASSOCIATES, INC.
DATE: 4/2/2002		
CASE NO:		
UST FACILITY NO:		



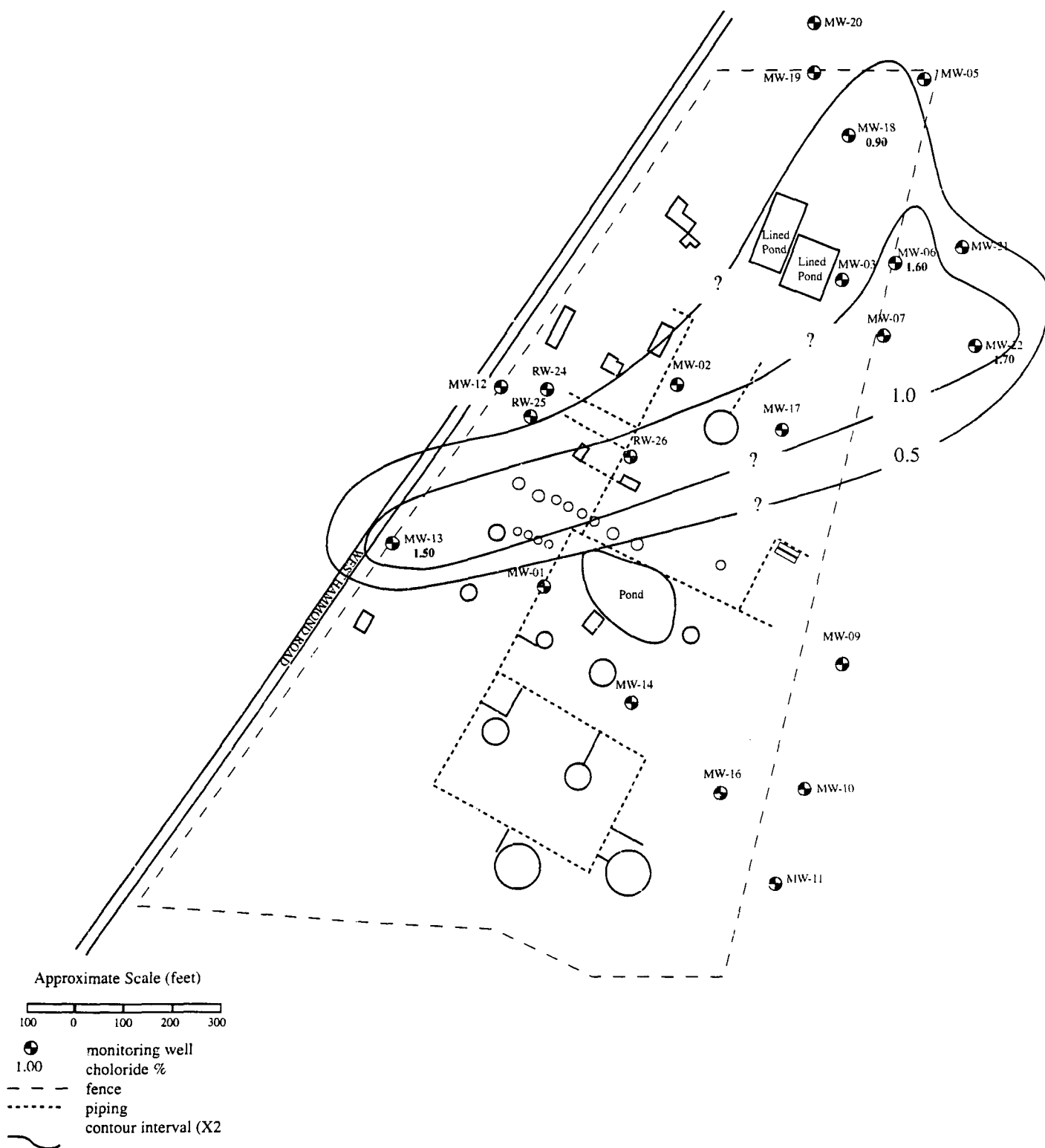
Approximate Scale (feet)



- monitoring well
- 1.00 conductivity umhos/cm
- - - fence
- piping
- contour interval (X2)

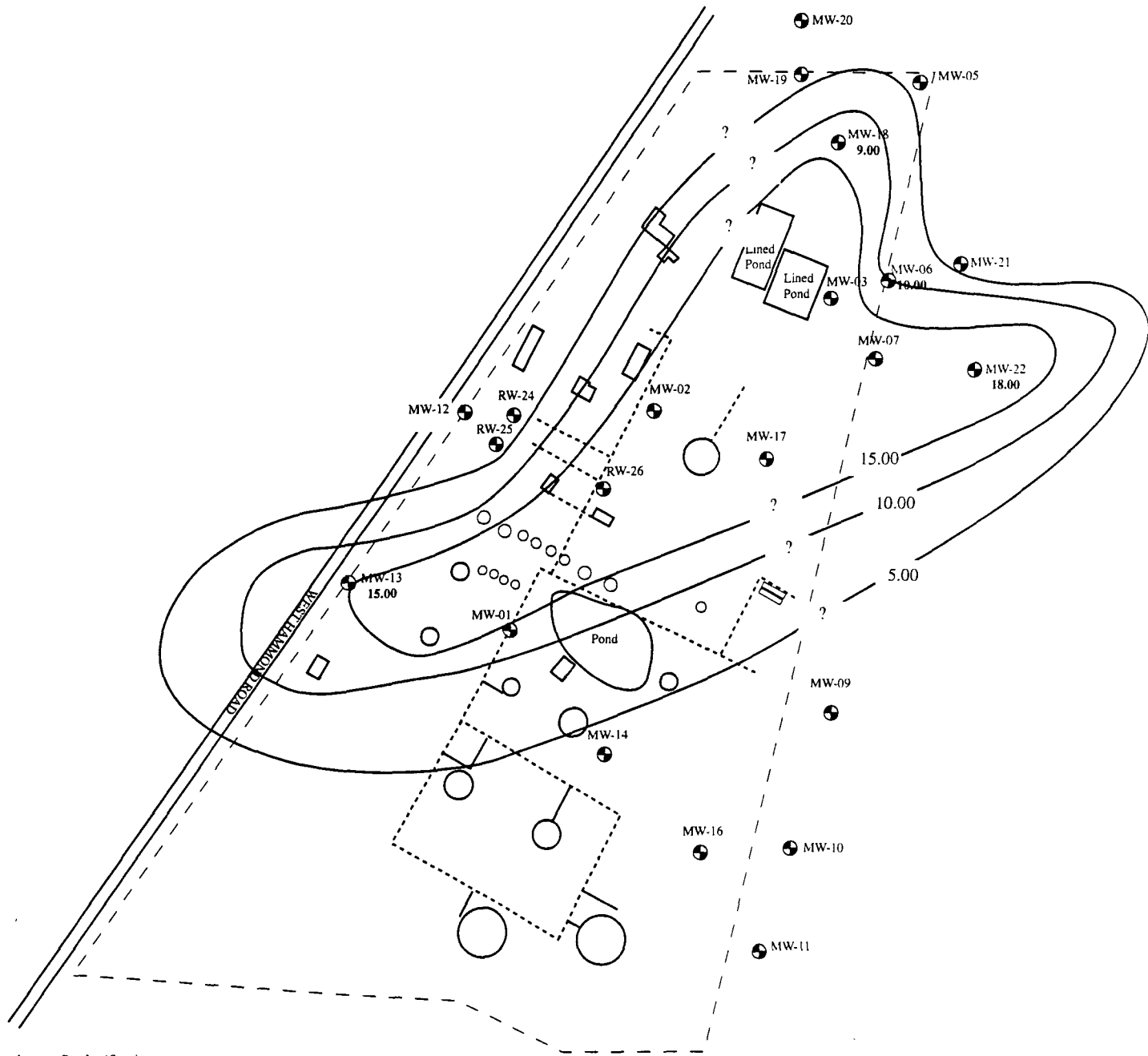
taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 4	 BILLINGS & ASSOCIATES, INC.
DATE: 4/2/2002	Conductivity Contour (7/30/2001)	
CASE NO:	Site Name: Thriftway Refinery	
UST FACILITY NO:	Site Location: 626 RD 5500	
	Bloomfield, NM	

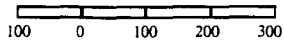


taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 4 A	BILLINGS & ASSOCIATES, INC. 
DATE: 4/2/2002	Chloride Contour (7/30/2001)	
CASE NO:	Site Name: Thriftway Refinery	
UST FACILITY NO:	Site Location: 626 RD 5500	
	Bloomfield, NM	



Approximate Scale (feet)



- monitoring well
- - - fence
- ... piping
- 1.00 TDS g/L
- - - contour interval (by X g/l)

taken from BioTech April 3, 2000

DRAWN BY: G. Billings	Figure 4 B	BILLINGS & ASSOCIATES, INC.
DATE: 4/2/2002	TDS Contour (7/30/2001)	
CASE NO:	Site Name: Thriftway Refinery	
UST FACILITY NO:	Site Location: 626 RD 5500	
	Bloomfield, NM	

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	Water Elev	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
8" rec well MW-01	09/23/98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5449.08	15.68	15.68	0.00	5433.40	5433.40	5433.40	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5449.08	15.62	15.62	0.00	5433.46	5433.46	5433.46	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5449.08	15.65	15.65	0.00	5433.43	5433.43	5433.43	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5449.08	15.37	15.37	0.00	5433.71	5433.71	5433.71	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/97	5449.08	15.08	15.08	0.00	5434.00	5434.00	5434.00	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/23/97	5449.08	15.08	15.08	0.00	5434.00	5434.00	5434.00	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/08/98	5449.08	14.72	14.72	0.00	5434.36	5434.36	5434.36	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5449.08	14.97	14.97	0.00	5434.11	5434.11	5434.11	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/23/98	5449.08	15.52	15.52	0.00	5433.56	5433.56	5433.56	1.66	16.6	7.10	0.18	4.53	NM	NM	NM	NM	NM	NM
	12/30/98	5449.08	15.00	15.00	0.00	5434.08	5434.08	5434.08	1.66	15.0	7.10	0.28	4.99	NM	NM	NM	NM	NM	NM
MW-02	04/14/99	5449.08	14.75	14.75	0.00	5434.33	5434.33	5434.33	1.66	15.0	7.00	0.42	4.46	2.24	NM	NM	NM	NM	NM
	06/03/99	5449.08	14.39	14.39	0.00	5434.69	5434.69	5434.69	1.66	15.5	7.20	0.20	4.30	NM	NM	NM	NM	NM	NM
	09/09/99	5449.08	14.37	14.37	0.00	5434.71	5434.71	5434.71	1.66	NM	7.60	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5449.08	14.23	14.23	0.00	5434.85	5434.85	5434.85	1.66	NM	7.00	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5449.08	13.80	13.80	0.00	5435.28	5435.28	5435.28	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/08/00	5449.08	13.72	13.72	0.00	5435.36	5435.36	5435.36	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5449.08	14.47	14.47	0.00	5434.61	5434.61	5434.61	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5449.08	14.44	14.44	0.00	5434.64	5434.64	5434.64	1.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/09/96	5442.65	12.16	13.50	1.34	5430.49	5429.15	5430.09	0.20	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5442.65	12.35	12.54	0.19	5430.30	5430.11	5430.24	0.35	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5442.65	12.18	12.37	0.19	5430.47	5430.28	5430.41	0.37	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-03	06/18/97	5442.65	12.11	12.14	0.03	5430.54	5430.51	5430.53	0.43	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/97	5442.65	11.86	11.98	0.12	5430.79	5430.67	5430.75	0.43	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/16/97	5442.65	11.64	11.69	0.05	5431.01	5430.96	5431.00	0.43	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5442.65	11.75	11.77	0.02	5430.90	5430.88	5430.89	0.44	15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/22/98	5442.65	11.74	11.78	0.04	5430.91	5430.87	5430.90	0.45	15.0	7.35	NM	NM	NM	NM	NM	NM	NM	NM
	09/23/98	5442.65	12.04	12.04	0.00	5430.61	5430.61	5430.61	0.45	16.8	7.00	0.15	3.48	NM	NM	NM	NM	NM	NM
	12/30/98	5442.65	11.60	11.61	0.01	5431.05	5431.04	5431.05	0.45	16.8	7.00	0.15	3.32	NM	NM	NM	NM	NM	NM
	04/14/99	5442.65	11.59	11.60	0.01	5431.06	5431.05	5431.06	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/03/99	5442.65	11.54	11.54	0.00	5431.11	5431.11	5431.11	0.45	NM	7.60	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5442.65	11.31	11.32	0.01	5431.34	5431.33	5431.34	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5442.65	11.40	11.40	0.00	5431.25	5431.25	5431.25	0.45	NM	7.00	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5442.65	11.32	11.32	0.00	5431.33	5431.33	5431.33	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-03	06/18/00	5442.65	12.14	12.14	0.00	5430.51	5430.51	5430.51	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5442.65	11.40	11.40	0.00	5431.25	5431.25	5431.25	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5442.65	11.60	11.60	0.00	5431.05	5431.05	5431.05	0.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/09/96	5431.43	5.17	5.17	0.00	5426.26	5426.26	5426.26	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5431.43	4.60	4.72	0.12	5426.83	5426.71	5426.79	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5431.43	3.44	3.44	0.00	5427.99	5427.99	5427.99	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5431.43	3.38	3.38	0.00	5428.05	5428.05	5428.05	0.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5431.43	5.15	5.18	0.03	5426.28	5426.25	5426.27	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5431.43	3.42	3.42	0.00	5428.01	5428.01	5428.01	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5431.43	4.47	4.47	0.00	5426.96	5426.96	5426.96	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5431.43	4.30	4.30	0.00	5427.13	5427.13	5427.13	0.02	NM	7.16	0.09	6.08	NM	NM	NM	NM	NM	NM
	09/22/98	5431.43	NM	NM	NM	NM	NM	NM	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/98	5431.43	3.57	3.57	0.00	5427.86	5427.86	5427.86	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	alter Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/l	Salinen/m	TDS	ORP	NTU's	% Salinity	Purged DEPTH
MW-04	04/13/99	5431.43	5.08	5.08	0.00	5426.35	5426.35	5426.35	0.02	12.1	7.10	0.37	4.63	2.37	NM	NM	NM	NM
	06/03/99	5431.43	NM	NM	NM	5426.35	NM	NM	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5431.43	5.16	5.16	0.00	5426.27	5426.27	5426.27	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/08/00	5431.43	5.29	5.29	0.00	5426.14	5426.14	5426.14	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5431.43	5.16	5.20	0.04	5426.27	5426.23	5426.26	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5431.43	5.42	5.71	0.29	5426.01	5425.72	5425.92	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5430.12	5.18	5.18	0.00	5424.94	5424.94	5424.94	0.00	NM	NM	2.70	4.27	NM	NM	NM	NM	NM
	03/19/97	5430.12	4.29	4.29	0.00	5425.83	5425.83	5425.83	0.00	NM	NM	NM	4.45	NM	NM	NM	NM	NM
	06/11/97	5430.12	4.08	4.08	0.00	5426.04	5426.04	5426.04	0.00	NM	NM	0.08	5.15	NM	NM	NM	NM	NM
	09/24/97	5430.12	4.19	4.19	0.00	5425.93	5425.93	5425.93	0.00	NM	NM	0.19	4.17	NM	NM	NM	NM	NM
MW-05	12/22/97	5430.12	4.31	4.31	0.00	5425.81	5425.81	5425.81	0.00	NM	NM	0.13	3.26	NM	NM	NM	NM	NM
	04/29/98																	
	04/17/00																	
	06/08/00	5430.12	5.04	5.04	0.00	5425.08	5425.08	5425.08	0.00	15.7	NM	0.09	NM	NM	NM	NM	NM	NM
	09/05/00	5430.12	5.40	5.40	0.00	5424.72	5424.72	5424.72	0.00	20.6	NM	0.25	NM	NM	NM	NM	NM	NM
	12/06/00	5430.12	5.31	5.31	0.00	5424.81	5424.81	5424.81	0.00	20.6	NM	0.25	NM	NM	NM	NM	NM	NM
	10/09/96	5428.97	5.55	5.55	0.00	5423.42	5423.42	5423.42	0.00	NM	NM	NM	3.26	NM	NM	NM	NM	NM
	12/31/96	5428.97	5.19	5.19	0.00	5423.78	5423.78	5423.78	0.00	NM	NM	1.90	3.26	NM	NM	NM	NM	NM
	03/19/97	5428.97	4.63	4.63	0.00	5424.34	5424.34	5424.34	0.00	NM	NM	NM	3.26	NM	NM	NM	NM	NM
	06/11/97	5428.97	4.41	4.41	0.00	5424.56	5424.56	5424.56	0.00	NM	NM	0.30	3.26	NM	NM	NM	NM	NM
MW-06	09/24/97	5428.97	3.77	3.77	0.00	5425.20	5425.20	5425.20	0.00	NM	NM	0.09	3.26	NM	NM	NM	NM	NM
	12/19/97	5428.97	4.37	4.37	0.00	5424.60	5424.60	5424.60	0.00	NM	NM	0.06	3.26	NM	NM	NM	NM	NM
	04/27/98	5428.97	4.47	4.47	0.00	5424.50	5424.50	5424.50	0.00	NM	NM	0.07	3.26	NM	NM	NM	NM	NM
	06/24/98	5428.97	4.78	4.78	0.00	5424.19	5424.19	5424.19	0.00	NM	8.56	0.09	3.26	NM	NM	NM	NM	NM
	09/24/98	5428.97	5.22	5.22	0.00	5423.75	5423.75	5423.75	0.00	19.9	8.00	0.09	3.26	NM	NM	NM	NM	NM
	12/29/98	5428.97	4.11	4.11	0.00	5424.86	5424.86	5424.86	0.00	13.4	8.10	0.12	3.26	NM	NM	NM	NM	NM
	04/12/99	5428.97	4.19	4.19	0.00	5424.78	5424.78	5424.78	0.00	12.9	8.20	0.10	5.63	2.83	NM	NM	NM	NM
	06/02/99	5428.97	4.45	4.45	0.00	5424.52	5424.52	5424.52	0.00	13.6	8.20	0.13	1.00	NM	NM	NM	NM	NM
	09/08/99	5428.97	4.52	4.52	0.00	5424.45	5424.45	5424.45	0.00	NM	7.60	NM	NM	NM	NM	NM	NM	NM
	12/29/99	5428.97	4.82	4.82	0.00	5424.15	5424.15	5424.15	0.00	13.5	8.00	0.27	NM	NM	NM	NM	NM	NM
MW-06	04/03/00	5428.97	4.48	4.48	0.00	5424.49	5424.49	5424.49	0.00	11.4	NM	0.40	NM	NM	NM	NM	NM	NM
	06/08/00	5428.97	4.82	4.82	0.00	5424.15	5424.15	5424.15	0.00	14.5	8.60	0.08	1.40	NM	NM	NM	NM	NM
	09/05/00	5428.97	5.30	5.30	0.00	5423.67	5423.67	5423.67	0.00	17.3	NM	0.17	NM	NM	NM	NM	NM	NM
	12/06/00	5428.97	5.10	5.10	0.00	5423.87	5423.87	5423.87	0.00	17.3	NM	0.17	NM	NM	NM	NM	NM	NM
	10/09/96	5430.70	5.28	5.28	0.00	5425.42	5425.42	5425.42	0.00	NM	NM	NM	4.23	NM	NM	NM	NM	NM
	12/31/96	5430.70	4.65	4.65	0.00	5426.05	5426.05	5426.05	0.00	NM	NM	4.70	4.07	NM	NM	NM	NM	NM
	03/19/97	5430.70	3.65	3.65	0.00	5427.05	5427.05	5427.05	0.00	NM	NM	NM	4.25	NM	NM	NM	NM	NM
	06/11/97	5430.70	3.62	3.62	0.00	5427.08	5427.08	5427.08	0.00	NM	NM	1.71	4.10	NM	NM	NM	NM	NM
	09/24/97	5430.70	4.58	4.58	0.00	5426.12	5426.12	5426.12	0.00	NM	NM	0.21	4.10	NM	NM	NM	NM	NM
	12/19/97	5430.70	4.23	4.23	0.00	5426.47	5426.47	5426.47	0.00	NM	NM	NM	4.10	NM	NM	NM	NM	NM
MW-06	04/27/98	5430.70	1.14	1.14	0.00	5429.56	5429.56	5429.56	0.00	NM	NM	0.14	3.87	NM	NM	NM	NM	NM
	06/24/98	5430.70	4.53	4.53	0.00	5426.17	5426.17	5426.17	0.00	NM	7.60	0.12	3.99	NM	NM	NM	NM	NM
	09/22/98	5430.70	4.55	4.55	0.00	5426.15	5426.15	5426.15	0.00	18.8	7.30	0.19	3.84	NM	NM	NM	NM	NM
	12/30/98	5430.70	3.72	3.72	0.00	5426.98	5426.98	5426.98	0.00	13.5	7.60	0.62	3.65	NM	NM	NM	NM	NM
	04/13/99	5430.70	4.67	4.67	0.00	5426.03	5426.03	5426.03	0.00	12.6	7.60	0.35	3.60	1.81	NM	NM	NM	NM
	06/03/99	5430.70	4.92	4.92	0.00	5425.78	5425.78	5425.78	0.00	13.9	7.80	0.12	3.30	NM	NM	NM	NM	NM
	09/09/99	5430.70	4.82	4.82	0.00	5426.08	5426.08	5426.08	0.00	NM	7.60	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	IOC elev	A/O	OW	Product	Prod Elev	alter Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged DEPTH
MW-07	12/29/99	5430.70	5.09	5.09	0.00	5425.61	5425.61	5425.61	0.00	13.2	7.10	2.07	NM	NM	NM	NM	NM	5.75
	04/03/00	5430.70	4.69	4.69	0.00	5426.01	5426.01	5426.01	0.00	12.3	NM	1.04	NM	NM	NM	NM	NM	4.50
	06/08/00	5430.70	5.18	5.18	0.00	5425.52	5425.52	5425.52	0.00	15.1	7.60	0.21	3.60	NM	NM	NM	NM	4.50
	09/05/00	5430.70	5.26	5.26	0.00	5425.44	5425.44	5425.44	0.00	20.1	NM	0.25	NM	NM	NM	NM	NM	3.50
	12/06/00	5430.70	5.20	5.20	0.00	5425.50	5425.50	5425.50	0.00	20.1	NM	0.25	NM	NM	NM	NM	NM	6.50
	10/07/96	5434.34	8.29	8.50	0.21	5426.05	5425.84	5425.99	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5434.34	7.54	7.54	0.00	5426.80	5426.80	5426.80	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5434.34	6.55	6.55	0.00	5427.79	5427.79	5427.79	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5434.34	6.47	6.47	0.00	5427.87	5427.87	5427.87	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5434.34	8.01	8.01	0.00	5426.33	5426.33	5426.33	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5434.34	6.61	6.61	0.00	5427.73	5427.73	5427.73	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-08	04/29/98	5434.34	7.65	7.65	0.00	5426.69	5426.69	5426.69	0.27	NM	NM	0.01	4.70	NM	NM	NM	NM	NM
	06/22/98	5434.34	7.54	7.54	0.00	5426.80	5426.80	5426.80	0.27	NM	7.51	0.14	4.77	NM	NM	NM	NM	NM
	09/23/98	5434.34	7.52	7.53	0.01	5426.82	5426.81	5426.82	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/98	5434.34	6.57	6.57	0.00	5427.77	5427.77	5427.77	0.27	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5434.34	7.98	7.98	0.00	5426.36	5426.36	5426.36	0.27	NM	7.40	NM	5.22	2.63	NM	NM	NM	NM
	06/03/99	5434.34	8.05	8.07	0.02	5426.29	5426.27	5426.28	0.28	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5434.34	8.03	8.08	0.05	5426.31	5426.26	5426.30	0.30	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5434.34	8.05	8.05	0.00	5426.29	5426.29	5426.29	0.30	NM	7.10	NM	NM	NM	NM	NM	NM	2.50
	04/05/00	5434.34	7.71	7.71	0.00	5426.63	5426.63	5426.63	0.30	NM	NM	NM	NM	NM	NM	NM	NM	5.00
	06/08/00	5435.28	8.06	8.06	0.00	5427.22	5427.22	5427.22	0.30	15.0	7.50	0.09	5.50	NM	NM	NM	NM	NM
	09/07/00	5435.28	8.99	8.99	0.00	5426.29	5426.29	5426.29	0.30	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5435.28	9.11	9.11	0.00	5426.17	5426.17	5426.17	0.30	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-09	10/08/96	5432.09	Silted In		NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5432.09	3.14	3.14	0.00	5428.95	5428.95	5428.95	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/18/97	5432.09	2.93	2.93	0.00	5429.16	5429.16	5429.16	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/97	5432.09	3.00	3.00	0.00	5429.09	5429.09	5429.09	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/25/97	5432.09	2.68	2.68	0.00	5429.41	5429.41	5429.41	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/22/97	5432.09	3.15	3.15	0.00	5428.94	5428.94	5428.94	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/28/98	5432.09	3.27	3.27	0.00	5428.82	5428.82	5428.82	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/23/98	5432.09	DRY	DRY	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/22/98	5432.09	DRY	DRY	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/29/98	5432.09	Silted In		NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/17/00	5433.04	4.11	4.11	0.00	5428.93	5428.93	5428.93	0.00	12.8	7.40	0.07	5.00	NM	NM	NM	NM	NM
	06/08/00	5433.04	4.22	4.22	0.00	5428.82	5428.82	5428.82	0.00	NM	NM	NM	NM	NM	NM	NM	NM	6.00
MW-09	09/06/00	5433.04	4.17	4.17	0.00	5428.87	5428.87	5428.87	0.00	NM	NM	NM	NM	NM	NM	NM	NM	2.00
	12/07/00	5433.04	4.17	4.17	0.00	5428.87	5428.87	5428.87	0.00	NM	NM	NM	NM	NM	NM	NM	NM	4.50
	10/08/96	5435.19	4.25	4.25	0.00	5430.94	5430.94	5430.94	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5435.19	4.10	4.10	0.00	5431.09	5431.09	5431.09	0.00	NM	NM	6.40	7.51	NM	NM	NM	NM	NM
	03/18/97	5435.19	4.17	4.17	0.00	5431.02	5431.02	5431.02	0.00	NM	NM	NM	7.27	NM	NM	NM	NM	NM
	06/16/97	5435.19	4.27	4.27	0.00	5430.92	5430.92	5430.92	0.00	NM	NM	1.85	7.45	NM	NM	NM	NM	NM
	09/25/97	5435.19	3.68	3.68	0.00	5431.51	5431.51	5431.51	0.00	NM	NM	2.02	8.49	NM	NM	NM	NM	NM
	12/22/97	5435.19	4.05	4.05	0.00	5431.14	5431.14	5431.14	0.00	NM	NM	1.00	7.15	NM	NM	NM	NM	NM
	04/28/98	5435.19	4.28	4.28	0.00	5430.91	5430.91	5430.91	0.00	NM	NM	0.88	7.45	NM	NM	NM	NM	NM
	06/23/98	5435.19	4.53	4.53	0.00	5430.66	5430.66	5430.66	0.00	NM	7.60	0.19	7.32	NM	NM	NM	NM	NM
	09/22/98	5435.19	4.55	4.55	0.00	5430.64	5430.64	5430.64	0.00	17.1	7.40	0.18	7.15	NM	NM	NM	NM	NM
	12/29/98	5435.19	3.75	3.75	0.00	5431.44	5431.44	5431.44	0.00	11.9	7.60	4.45	7.84	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	Q/W	Product	Prod Elev	alter Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-10	04/12/99	5435.19	3.94	3.94	0.00	5431.25	5431.25	5431.25	0.00	10.8	7.70	0.20	7.37	3.36	NM	NM	NM	NM	NM
	06/02/99	5435.19	4.05	4.05	0.00	5431.14	5431.14	5431.14	0.00	13.1	7.80	0.30	6.60	NM	NM	NM	NM	NM	NM
	09/07/99	5435.19	4.10	4.10	0.00	5431.09	5431.09	5431.09	0.00	16.6	7.20	0.37	4.67	2.34	NM	NM	NM	NM	NM
	12/28/99	5435.19	3.77	3.77	0.00	5431.42	5431.42	5431.42	0.00	10.7	7.30	NM	NM	NM	NM	NM	NM	4.25	NM
	04/04/00	5435.19	3.70	3.70	0.00	5431.49	5431.49	5431.49	0.00	10.7	NM	3.08	NM	NM	NM	NM	NM	3.75	NM
	06/08/00	5436.69	5.56	5.56	0.00	5431.13	5431.13	5431.13	0.00	13.2	7.60	0.16	7.40	NM	NM	NM	NM	3.50	NM
	09/05/00	5436.69	5.42	5.42	0.00	5431.27	5431.27	5431.27	0.00	17.5	NM	0.28	NM	NM	NM	NM	NM	2.00	NM
	12/07/00	5436.69	5.31	5.31	0.00	5431.38	5431.38	5431.38	0.00	17.5	NM	0.28	NM	NM	NM	NM	NM	5.00	NM
	10/08/06	5436.56	4.21	4.21	0.00	5432.35	5432.35	5432.35	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5436.56	4.01	4.01	0.00	5432.55	5432.55	5432.55	0.00	NM	NM	3.90	7.48	NM	NM	NM	NM	NM	NM
	03/18/97	5436.56	4.09	4.09	0.00	5432.47	5432.47	5432.47	0.00	NM	NM	NM	7.46	NM	NM	NM	NM	NM	NM
	06/16/97	5436.56	4.10	4.10	0.00	5432.46	5432.46	5432.46	0.00	NM	NM	0.69	7.45	NM	NM	NM	NM	NM	NM
	09/25/97	5436.56	3.81	3.81	0.00	5432.75	5432.75	5432.75	0.00	NM	NM	11.15	7.41	NM	NM	NM	NM	NM	NM
	12/22/97	5436.56	3.98	3.98	0.00	5432.58	5432.58	5432.58	0.00	NM	NM	0.61	7.17	NM	NM	NM	NM	NM	NM
	04/28/98	5436.56	4.24	4.24	0.00	5432.32	5432.32	5432.32	0.00	NM	NM	0.22	7.34	NM	NM	NM	NM	NM	NM
	06/23/98	5436.56	4.49	4.49	0.00	5432.07	5432.07	5432.07	0.00	NM	NM	0.16	7.24	NM	NM	NM	NM	NM	NM
MW-11	09/22/98	5436.56	4.54	4.54	0.00	5432.02	5432.02	5432.02	0.00	17.4	7.40	0.16	7.15	NM	NM	NM	NM	NM	NM
	12/29/98	5436.56	3.84	3.84	0.00	5432.72	5432.72	5432.72	0.00	13.2	7.50	0.40	7.44	NM	NM	NM	NM	NM	NM
	04/12/99	5436.56	3.90	3.90	0.00	5432.66	5432.66	5432.66	0.00	11.0	7.40	0.60	7.06	3.50	NM	NM	NM	NM	NM
	06/02/99	5436.56	3.98	3.98	0.00	5432.58	5432.58	5432.58	0.00	12.3	7.60	0.30	6.60	NM	NM	NM	NM	NM	NM
	09/07/99	5436.56	3.90	3.90	0.00	5432.66	5432.66	5432.66	0.00	16.9	7.20	0.26	6.61	3.31	NM	NM	NM	NM	NM
	12/28/99	5436.56	3.57	3.57	0.00	5432.99	5432.99	5432.99	0.00	NM	NM	1.16	NM	NM	NM	NM	NM	3.75	NM
	04/03/00	5436.56	3.54	3.54	0.00	5433.02	5433.02	5433.02	0.00	10.4	NM	0.11	7.30	NM	NM	NM	NM	2.50	NM
	06/08/00	5437.78	5.07	5.07	0.00	5432.71	5432.71	5432.71	0.00	13.3	7.70	0.27	NM	NM	NM	NM	NM	5.50	NM
	09/05/00	5437.78	5.10	5.10	0.00	5432.68	5432.68	5432.68	0.00	19.1	NM	0.27	NM	NM	NM	NM	NM	2.00	NM
	12/07/00	5437.78	4.72	4.72	0.00	5433.06	5433.06	5433.06	0.00	19.1	NM	0.27	NM	NM	NM	NM	NM	3.00	NM
	10/08/96	5438.65	5.27	5.27	0.00	5433.38	5433.38	5433.38	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5438.65	5.02	5.02	0.00	5433.63	5433.63	5433.63	0.00	NM	NM	NM	6.97	NM	NM	NM	NM	NM	NM
	03/18/97	5438.65	5.01	5.01	0.00	5433.64	5433.64	5433.64	0.00	NM	NM	NM	6.87	NM	NM	NM	NM	NM	NM
	06/16/97	5438.65	5.05	5.05	0.00	5433.60	5433.60	5433.60	0.00	NM	NM	NM	6.90	NM	NM	NM	NM	NM	NM
	09/25/97	5438.65	4.96	4.96	0.00	5433.69	5433.69	5433.69	0.00	NM	NM	NM	6.89	NM	NM	NM	NM	NM	NM
	12/22/97	5438.65	4.91	4.91	0.00	5433.74	5433.74	5433.74	0.00	NM	NM	0.30	6.90	NM	NM	NM	NM	NM	NM
	04/28/98	5438.65	4.97	4.97	0.00	5433.68	5433.68	5433.68	0.00	NM	NM	0.26	6.90	NM	NM	NM	NM	NM	NM
MW-12	06/23/98	5438.65	5.23	5.23	0.00	5433.42	5433.42	5433.42	0.00	NM	7.73	0.26	6.73	NM	NM	NM	NM	NM	NM
	09/22/98	5438.65	5.37	5.37	0.00	5433.28	5433.28	5433.28	0.00	16.0	7.40	0.18	6.76	NM	NM	NM	NM	NM	NM
	12/29/98	5438.65	4.83	4.83	0.00	5433.82	5433.82	5433.82	0.00	12.7	7.50	0.31	6.70	NM	NM	NM	NM	NM	NM
	04/12/99	5438.65	4.83	4.83	0.00	5433.82	5433.82	5433.82	0.00	11.3	7.70	0.17	6.68	3.35	NM	NM	NM	NM	NM
	06/02/99	5438.65	4.82	4.82	0.00	5433.83	5433.83	5433.83	0.00	12.5	7.20	0.32	6.10	NM	NM	NM	NM	NM	NM
	09/07/99	5438.65	4.99	4.99	0.00	5433.66	5433.66	5433.66	0.00	16.0	7.30	0.32	6.32	3.16	NM	NM	NM	NM	NM
	12/28/99	5438.65	4.42	4.42	0.00	5434.23	5434.23	5434.23	0.00	NM	7.30	NM	NM	NM	NM	NM	NM	5.00	NM
	04/03/00	5438.65	4.65	4.65	0.00	5434.00	5434.00	5434.00	0.00	11.3	NM	0.13	NM	NM	NM	NM	NM	5.25	NM
	06/08/00	5439.67	5.18	5.18	0.00	5434.49	5434.49	5434.49	0.00	13.3	7.70	0.18	6.50	NM	NM	NM	NM	4.50	NM
	09/06/00	5439.67	5.82	5.82	0.00	5433.85	5433.85	5433.85	0.00	16.1	NM	0.22	NM	NM	NM	NM	NM	2.00	NM
	12/07/00	5439.67	5.43	5.43	0.00	5434.24	5434.24	5434.24	0.00	16.1	NM	0.22	NM	NM	NM	NM	NM	3.00	NM
	10/07/96	5446.09	14.15	15.62	1.47	5431.94	5430.47	5431.50	28.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5446.09	14.20	15.60	1.40	5431.89	5430.49	5431.47	29.34	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/11/97	5446.09	14.14	15.39	1.25	5431.95	5430.70	5431.58	29.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	ater Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mgl	Salinen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-13	06/18/97	5446.09	14.23	14.98	0.75	5431.86	5431.11	5431.64	30.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5446.09	13.98	14.53	0.55	5432.11	5431.56	5431.95	30.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5446.09	13.87	14.39	0.52	5432.22	5431.70	5432.06	30.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5446.09	13.73	14.15	0.42	5432.36	5431.94	5432.23	31.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/22/98	5446.09	13.89	14.21	0.32	5432.20	5431.88	5432.10	31.77	NM	7.01	NM	7.06	NM	NM	NM	NM	NM	NM
	09/23/98	5446.09	14.18	15.22	1.04	5431.91	5430.87	5431.60	31.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5446.09	13.94	14.43	0.49	5432.15	5431.66	5432.00	32.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5446.09	13.78	13.94	0.16	5432.31	5432.15	5432.26	32.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5446.09	13.68	13.88	0.20	5432.41	5432.21	5432.35	32.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5446.09	13.65	13.83	0.18	5432.44	5432.26	5432.39	32.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5446.09	13.49	13.77	0.28	5432.60	5432.32	5432.52	32.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5446.09	13.23	13.59	0.36	5432.86	5432.50	5432.75	32.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/07/00	5446.09	13.22	13.49	0.27	5432.87	5432.60	5432.79	32.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5446.09	13.73	13.90	0.17	5432.36	5432.19	5432.31	32.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/08/00	5446.09	13.72	13.77	0.05	5432.37	5432.32	5432.36	32.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/08/96	5452.12	18.11	18.11	0.00	5434.01	5434.01	5434.01	0.00	NM	NM	NM	NM	NM	NM	NM	NM	5	NM
	12/30/96	5452.12	18.04	18.04	0.00	5434.08	5434.08	5434.08	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/18/97	5452.12	17.98	17.98	0.00	5434.14	5434.14	5434.14	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/97	5452.12	17.93	17.93	0.00	5434.19	5434.19	5434.19	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-14	09/23/97	5452.12	17.81	17.81	0.00	5434.31	5434.31	5434.31	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/19/97	5452.12	17.48	17.48	0.00	5434.64	5434.64	5434.64	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/24/98	5452.12	17.22	17.22	0.00	5434.90	5434.90	5434.90	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/23/98	5452.12	17.48	17.48	0.00	5434.64	5434.64	5434.64	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5452.12	17.92	17.92	0.00	5434.20	5434.20	5434.20	0.00	NM	7.27	0.19	6.26	NM	NM	NM	NM	NM	NM
	12/29/98	5452.12	17.52	17.52	0.00	5434.60	5434.60	5434.60	0.00	NM	7.10	0.28	6.32	NM	NM	NM	NM	NM	NM
	04/12/99	5452.12	17.24	17.24	0.00	5434.88	5434.88	5434.88	0.00	NM	6.90	0.22	6.30	NM	NM	NM	NM	NM	NM
	06/02/99	5452.12	17.11	17.11	0.00	5435.01	5435.01	5435.01	0.00	NM	7.00	0.25	6.17	3.04	NM	NM	NM	NM	NM
	09/07/99	5452.12	17.12	17.12	0.00	5435.00	5435.00	5435.00	0.00	NM	7.10	0.22	6.00	NM	NM	NM	NM	NM	NM
	12/28/99	5452.12	16.83	16.83	0.00	5435.29	5435.29	5435.29	0.00	NM	7.10	0.30	6.12	3.06	NM	NM	NM	NM	NM
	04/03/00	5452.12	16.51	16.51	0.00	5435.61	5435.61	5435.61	0.00	NM	7.20	NM	NM	NM	NM	NM	NM	NM	NM
	06/08/00	5452.12	16.56	16.56	0.00	5435.56	5435.56	5435.56	0.00	NM	NM	0.49	NM	NM	NM	NM	NM	5.00	NM
	09/05/00	5452.12	17.10	17.10	0.00	5435.02	5435.02	5435.02	0.00	NM	7.40	0.45	3.15	NM	NM	NM	NM	5.50	NM
	12/07/00	5452.12	16.93	16.93	0.00	5435.19	5435.19	5435.19	0.00	NM	NM	0.50	NM	NM	NM	NM	NM	6.00	NM
	10/07/96	5446.93	13.05	13.05	0.00	5433.88	5433.88	5433.88	3.10	NM	NM	0.50	NM	NM	NM	NM	NM	3.50	NM
	12/30/96	5446.93	12.97	12.97	0.00	5433.96	5433.96	5433.96	3.10	NM	NM	NM	NM	NM	NM	NM	NM	5.50	NM
	03/17/97	5446.93	12.73	12.97	0.00	5434.26	5433.43	5433.97	3.26	NM	NM	1.60	6.07	NM	NM	NM	NM	NM	NM
	06/18/97	5446.93	12.67	13.09	0.42	5434.47	5434.47	5434.47	3.58	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5446.93	12.46	12.63	0.17	5434.51	5434.51	5434.51	3.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-15	12/18/97	5446.93	12.42	12.45	0.03	5434.51	5434.48	5434.50	3.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/28/98	5446.93	12.24	12.24	0.00	5434.69	5434.69	5434.69	3.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5446.93	12.37	12.37	0.00	5434.56	5434.56	5434.56	3.59	NM	NM	0.07	5.62	NM	NM	NM	NM	NM	NM
	09/23/98	5446.93	12.78	12.78	0.00	5434.15	5434.15	5434.15	3.59	NM	7.25	0.08	7.95	NM	NM	NM	NM	NM	NM
	12/30/98	5446.93	12.48	12.66	0.18	5434.45	5434.27	5434.40	3.66	NM	6.90	0.12	5.20	NM	NM	NM	NM	NM	NM
	04/14/99	5446.93	12.14	12.24	0.10	5434.79	5434.69	5434.76	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/03/99	5446.93	12.02	12.06	0.04	5434.91	5434.87	5434.90	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/98	5446.93	11.96	11.96	0.02	5434.97	5434.95	5434.96	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5446.93	11.87	11.87	0.00	5435.06	5435.06	5435.06	3.78	NM	7.20	NM	NM	NM	NM	NM	NM	NM	NM
																		5.25	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	Water Elev	Accum Pto	Deg. C	pH	DO mg/l	Salinen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-15	04/05/00	5446.93	11.61	11.61	0.00	5435.32	5435.32	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/08/00	5446.93	12.52	12.52	0.00	5434.41	5434.41	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5446.93	11.96	11.96	0.00	5434.97	5434.97	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5446.93	11.90	11.90	0.00	5435.03	5435.03	3.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/08/96	5449.51	13.88	13.88	0.00	5435.65	5435.65	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5449.51	13.72	13.72	0.00	5435.79	5435.79	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/18/97	5449.51	13.49	13.49	0.00	5436.02	5436.02	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/17/97	5449.51	13.28	13.28	0.00	5436.23	5436.23	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/26/97	5449.51	12.67	12.67	0.00	5436.84	5436.84	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/22/97	5449.51	12.98	12.98	0.00	5436.53	5436.53	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/24/98	5449.51	12.73	12.73	0.00	5436.78	5436.78	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-16	06/23/98	5449.51	12.94	12.94	0.00	5436.57	5436.57	0.00	NM	7.73	0.93	4.92	NM	NM	NM	NM	NM	NM
	09/24/98	5449.51	13.34	13.34	0.00	5436.17	5436.17	0.00	20.0	7.10	0.15	4.50	NM	NM	NM	NM	NM	NM
	12/28/98	5449.51	12.83	12.83	0.00	5436.68	5436.68	0.00	13.9	7.30	1.50	4.43	NM	NM	NM	NM	NM	NM
	04/12/99	5449.51	12.50	12.50	0.00	5437.01	5437.01	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/02/99	5449.51	12.51	12.51	0.00	5437.00	5437.00	0.00	14.0	7.80	2.00	NM	NM	NM	NM	NM	NM	NM
	09/07/99	5449.51	12.41	12.41	0.00	5437.10	5437.10	0.00	15.4	7.30	0.48	4.61	NM	NM	NM	NM	NM	NM
	12/28/99	5449.51	12.30	12.30	0.00	5437.21	5437.21	0.00	NM	7.30	NM	NM	2.31	NM	NM	NM	NM	NM
	04/04/00	5449.28	11.81	11.81	0.00	5437.47	5437.47	0.00	12.9	NM	0.25	NM	NM	NM	NM	NM	3.50	NM
	06/08/00	5449.28	12.18	12.18	0.00	5437.10	5437.10	0.00	13.7	7.80	0.30	5.70	NM	NM	NM	NM	2.50	NM
	09/06/00	5449.28	12.13	12.13	0.00	5437.15	5437.15	0.00	NM	NM	NM	NM	NM	NM	NM	NM	4.50	NM
	10/08/00	5442.63	9.33	9.33	0.00	5433.30	5433.30	0.00	NM	NM	NM	NM	NM	NM	NM	NM	2.00	NM
	12/30/96	5442.63	9.07	9.07	0.00	5433.56	5433.56	0.00	NM	NM	NM	NM	NM	NM	NM	NM	3.50	NM
MW-17	03/19/97	5442.63	8.98	8.98	0.00	5433.65	5433.65	0.00	NM	NM	3.80	7.51	NM	NM	NM	NM	NM	NM
	06/18/97	5442.63	8.91	8.91	0.00	5433.72	5433.72	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5442.63	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/22/97	5442.63	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5442.63	8.77	8.77	0.00	5433.86	5433.86	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5442.63	8.97	8.97	0.00	5433.66	5433.66	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/23/98	5442.63	9.87	9.87	0.00	5432.76	5432.76	0.00	NM	7.53	0.70	7.19	NM	NM	NM	NM	NM	NM
	12/28/98	5442.63	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/13/99	5442.63	8.61	8.61	0.00	5434.02	5434.02	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/02/99	5442.63	8.58	8.58	0.00	5434.05	5434.05	0.00	14.5	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5442.63	NM	NM	NM	NM	NM	0.00	NM	NM	0.20	6.60	NM	NM	NM	NM	NM	NM
	04/05/00	5442.63	8.34	8.34	0.00	5434.29	5434.29	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	06/08/00	5442.63	7.38	7.38	0.00	5435.25	5435.25	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5442.63	8.55	8.55	0.00	5434.08	5434.08	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5442.63	8.33	8.33	0.00	5434.30	5434.30	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5435.57	5.98	6.09	0.11	5429.59	5429.59	5.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5435.57	5.91	6.30	0.39	5429.66	5429.66	5.91	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5435.57	5.63	5.67	0.04	5429.94	5429.94	5.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5435.57	5.59	5.59	0.00	5429.98	5429.98	5.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5435.57	5.53	5.82	0.29	5430.04	5429.75	5.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5435.57	5.54	5.78	0.24	5430.03	5429.79	6.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5435.57	5.50	5.99	0.49	5430.07	5429.58	6.36	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5435.57	5.60	6.51	0.91	5429.97	5429.06	7.62	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	AO	OWI	Product	Prod Elev	Water Elev	dWL Elev	Accum Pro	Deg. C	pH	DO mg/l	Salmon/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-18	09/23/98	5435.57	5.74	6.68	0.94	5429.83	5428.89	5429.55	8.62	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/28/98	5435.57	5.39	5.71	0.32	5430.18	5429.86	5430.08	9.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5435.57	5.52	6.00	0.48	5430.05	5429.57	5429.91	9.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5435.57	5.49	6.19	0.70	5430.08	5429.38	5429.87	11.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5435.57	5.38	5.97	0.59	5430.19	5429.60	5430.01	11.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/99	5435.57	5.53	5.86	0.33	5430.04	5429.71	5429.94	11.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5435.57	5.36	5.40	0.04	5430.21	5430.17	5430.20	11.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5435.57	5.45	5.79	0.34	5430.12	5429.78	5430.02	11.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5435.57	5.68	6.00	0.32	5429.89	5429.57	5429.79	11.83	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/08/00	5435.57	5.73	5.80	0.07	5429.84	5429.77	5429.82	11.83	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/09/96	5429.10	4.24	4.24	0.00	5424.86	5424.86	5424.86	0.00	NM	NM	NM	NM	NM	NM	NM	NM	5.00	NM
	12/30/96	5429.10	4.06	4.06	0.00	5425.04	5425.04	5425.04	0.00	NM	NM	2.50	4.82	NM	NM	NM	NM	NM	NM
	03/19/97	5429.10	3.26	3.26	0.00	5425.84	5425.84	5425.84	0.00	NM	NM	NM	4.86	NM	NM	NM	NM	NM	NM
	06/18/97	5429.10	3.00	3.00	0.00	5426.10	5426.10	5426.10	0.00	NM	NM	2.03	4.67	NM	NM	NM	NM	NM	NM
	09/24/97	5429.10	2.50	2.50	0.00	5426.60	5426.60	5426.60	0.00	NM	NM	0.76	3.33	NM	NM	NM	NM	NM	NM
	12/23/97	5429.10	3.29	3.29	0.00	5425.81	5425.81	5425.81	0.00	NM	NM	NM	2.31	NM	NM	NM	NM	NM	NM
	04/28/98	5429.10	3.42	3.42	0.00	5425.68	5425.68	5425.68	0.00	NM	NM	0.15	4.45	NM	NM	NM	NM	NM	NM
	06/24/98	5429.10	3.72	3.72	0.00	5425.38	5425.38	5425.38	0.00	NM	NM	0.10	4.57	NM	NM	NM	NM	NM	NM
MW-19	09/23/98	5429.10	3.94	3.94	0.00	5425.16	5425.16	5425.16	0.00	17.7	7.10	0.15	4.44	NM	NM	NM	NM	NM	NM
	12/29/98	5429.10	3.19	3.19	0.00	5425.91	5425.91	5425.91	0.00	11.9	7.70	0.20	3.26	NM	NM	NM	NM	NM	NM
	04/13/99	5429.10	3.68	3.68	0.00	5425.42	5425.42	5425.42	0.00	11.7	7.60	0.09	4.68	2.32	NM	NM	NM	NM	NM
	06/03/99	5429.10	3.97	3.97	0.00	5425.13	5425.13	5425.13	0.00	13.5	7.90	0.10	4.20	NM	NM	NM	NM	NM	NM
	09/09/99	5429.10	3.81	3.81	0.00	5425.29	5425.29	5425.29	0.00	NM	8.00	NM	NM	NM	NM	NM	NM	NM	NM
	12/29/99	5429.10	4.39	4.39	0.00	5424.71	5424.71	5424.71	0.00	13.2	7.10	0.41	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5429.10	4.08	4.08	0.00	5425.02	5425.02	5425.02	0.00	NM	NM	NM	NM	NM	NM	NM	NM	3.00	NM
	06/08/00	5429.10	4.24	4.24	0.00	5424.86	5424.86	5424.86	0.00	13.8	7.90	0.10	3.70	NM	NM	NM	NM	2.25	NM
	09/08/00	5429.10	4.80	4.60	0.00	5424.50	5424.50	5424.50	0.00	18.7	NM	0.16	NM	NM	NM	NM	NM	2.00	NM
	12/06/00	5429.10	7.30	7.30	0.00	5421.80	5421.80	5421.80	0.00	18.7	NM	0.16	NM	NM	NM	NM	NM	4.00	NM
	10/09/96	5428.69	3.70	3.70	0.00	5424.99	5424.99	5424.99	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5428.69	3.77	3.77	0.00	5424.92	5424.92	5424.92	0.00	NM	NM	3.90	6.45	NM	NM	NM	NM	NM	NM
	03/19/97	5428.69	3.32	3.32	0.00	5425.37	5425.37	5425.37	0.00	NM	NM	NM	6.30	NM	NM	NM	NM	NM	NM
	06/17/97	5428.69	3.12	3.12	0.00	5425.57	5425.57	5425.57	0.00	NM	NM	0.81	4.57	NM	NM	NM	NM	NM	NM
	09/26/97	5428.69	2.36	2.36	0.00	5426.33	5426.33	5426.33	0.00	NM	NM	0.15	1.71	NM	NM	NM	NM	NM	NM
	12/23/97	5428.69	2.91	2.91	0.00	5425.78	5425.78	5425.78	0.00	NM	NM	0.07	6.24	NM	NM	NM	NM	NM	NM
	04/28/98	5428.69	2.99	2.99	0.00	5425.70	5425.70	5425.70	0.00	NM	NM	0.19	6.21	NM	NM	NM	NM	NM	NM
	06/23/98	5428.69	3.38	3.38	0.00	5425.31	5425.31	5425.31	0.00	NM	7.57	0.19	5.91	NM	NM	NM	NM	NM	NM
	09/22/98	5428.69	3.57	3.57	0.00	5425.12	5425.12	5425.12	0.00	18.1	7.80	0.15	7.40	NM	NM	NM	NM	NM	NM
MW-20	12/29/98	5428.69	3.19	3.19	0.00	5425.50	5425.50	5425.50	0.00	9.7	8.00	0.10	3.25	NM	NM	NM	NM	NM	NM
	04/13/99	5428.69	3.08	3.08	0.00	5425.61	5425.61	5425.61	0.00	12.1	7.60	0.10	4.57	2.31	NM	NM	NM	NM	NM
	06/03/99	5428.69	3.24	3.24	0.00	5425.45	5425.45	5425.45	0.00	NM	7.50	NM	3.60	NM	NM	NM	NM	NM	NM
	09/09/99	5428.69	3.01	3.01	0.00	5425.68	5425.68	5425.68	0.00	NM	6.90	NM	NM	NM	NM	NM	NM	NM	NM
	12/29/99	5428.69	3.47	3.47	0.00	5425.22	5425.22	5425.22	0.00	10.9	7.30	0.35	NM	NM	NM	NM	NM	3.25	NM
	04/04/00	5428.69	2.57	2.57	0.00	5426.12	5426.12	5426.12	0.00	10.0	NM	0.65	NM	NM	NM	NM	NM	5.00	NM
	06/08/00	5428.69	3.60	3.60	0.00	5425.09	5425.09	5425.09	0.00	13.3	7.70	0.17	5.70	NM	NM	NM	NM	3.50	NM
	09/06/00	5428.69	3.89	3.89	0.00	5424.80	5424.80	5424.80	0.00	19.6	NM	0.20	NM	NM	NM	NM	NM	1.00	NM
	12/06/00	5428.69	3.92	3.92	0.00	5424.77	5424.77	5424.77	0.00	19.8	NM	0.20	NM	NM	NM	NM	NM	3.00	NM
	10/08/96	5430.36	5.72	5.72	0.00	5424.64	5424.64	5424.64	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	AO	O/W	Product	Prod Elev	Water Elev	dj WL Elev	Accum Pro	Deg. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-21	12/31/96	5430.36	5.74	5.74	0.00	5424.62	5424.62	5424.62	0.00	NM	NM	0.90	5.33	NM	NM	NM	NM	NM	NM
	03/18/97	5430.36	5.39	5.39	0.00	5424.97	5424.97	5424.97	0.00	NM	NM	NM	6.26	NM	NM	NM	NM	NM	NM
	06/16/97	5430.36	5.21	5.21	0.00	5425.15	5425.15	5425.15	0.00	NM	NM	0.26	5.73	NM	NM	NM	NM	NM	NM
	09/24/97	5430.36	4.41	4.41	0.00	5425.95	5425.95	5425.95	0.00	NM	NM	0.27	3.50	NM	NM	NM	NM	NM	NM
	12/22/97	5430.36	4.90	4.90	0.00	5425.46	5425.46	5425.46	0.00	NM	NM	0.22	6.52	NM	NM	NM	NM	NM	NM
	04/27/98	5430.36	5.02	5.02	0.00	5425.34	5425.34	5425.34	0.00	NM	NM	0.31	6.54	NM	NM	NM	NM	NM	NM
	06/23/98	5430.36	5.35	5.35	0.00	5425.01	5425.01	5425.01	0.00	NM	7.18	0.08	6.54	NM	NM	NM	NM	NM	NM
	09/22/98	5430.36	5.67	5.67	0.00	5424.69	5424.69	5424.69	0.00	17.3	7.00	0.15	5.64	NM	NM	NM	NM	NM	NM
	12/28/98	5430.36	5.02	5.02	0.00	5425.34	5425.34	5425.34	0.00	8.4	7.00	0.10	5.29	NM	NM	NM	NM	NM	NM
	04/12/99	5430.36	5.02	5.02	0.00	5425.34	5425.34	5425.34	0.00	11.0	7.30	0.03	7.74	3.90	NM	NM	NM	NM	NM
	06/02/99	5430.36	5.19	5.19	0.00	5425.17	5425.17	5425.17	0.00	NM	7.30	NM	3.00	NM	NM	NM	NM	NM	NM
	09/08/99	5430.36	4.90	4.90	0.00	5425.46	5425.46	5425.46	0.00	NM	7.10	NM	1.85	0.92	NM	NM	NM	NM	NM
	12/29/99	5430.36	5.36	5.36	0.00	5425.00	5425.00	5425.00	0.00	10.3	7.10	0.15	NM	NM	NM	NM	NM	NM	NM
	04/04/00	5430.36	4.49	4.49	0.00	5425.87	5425.87	5425.87	0.00	9.0	NM	0.29	NM	NM	NM	NM	NM	4.25	NM
	06/08/00	5430.45	5.53	5.53	0.00	5424.92	5424.92	5424.92	0.00	12.9	7.40	0.12	5.70	NM	NM	NM	NM	5.00	NM
	09/06/00	5430.45	5.87	5.87	0.00	5424.58	5424.58	5424.58	0.00	18.1	NM	0.12	NM	NM	NM	NM	NM	4.50	NM
	12/08/00	5430.45	5.88	5.88	0.00	5424.57	5424.57	5424.57	0.00	18.1	NM	0.12	NM	NM	NM	NM	NM	1.00	NM
	12/31/96	5428.62	3.56	3.56	0.00	5425.06	5425.06	5425.06	0.00	NM	NM	1.20	5.07	NM	NM	NM	NM	2.50	NM
	03/18/97	5428.62	2.76	2.76	0.00	5425.86	5425.86	5425.86	0.00	NM	NM	NM	6.27	NM	NM	NM	NM	NM	NM
MW-22	06/17/97	5428.62	2.93	2.93	0.00	5425.69	5425.69	5425.69	0.00	NM	NM	0.23	7.50	NM	NM	NM	NM	NM	NM
	09/25/97	5428.62	3.03	3.03	0.00	5425.59	5425.59	5425.59	0.00	NM	NM	0.09	6.05	NM	NM	NM	NM	NM	NM
	12/22/97	5428.62	3.07	3.07	0.00	5425.55	5425.55	5425.55	0.00	NM	NM	0.40	4.96	NM	NM	NM	NM	NM	NM
	04/27/98	5428.62	3.16	3.16	0.00	5425.46	5425.46	5425.46	0.00	NM	NM	0.07	5.40	NM	NM	NM	NM	NM	NM
	06/23/98	5428.62	3.72	3.72	0.00	5424.90	5424.90	5424.90	0.00	NM	7.06	0.07	4.79	NM	NM	NM	NM	NM	NM
	09/24/98	5428.62	3.81	3.81	0.00	5424.81	5424.81	5424.81	0.00	20.0	7.10	0.15	4.43	NM	NM	NM	NM	NM	NM
	12/28/98	5428.62	2.66	2.66	0.00	5425.96	5425.96	5425.96	0.00	8.1	7.00	0.31	7.19	NM	NM	NM	NM	NM	NM
	04/12/99	5428.62	2.90	2.90	0.00	5425.72	5425.72	5425.72	0.00	11.0	7.10	0.25	7.04	3.55	NM	NM	NM	NM	NM
	06/02/99	5428.62	3.24	3.24	0.00	5425.38	5425.38	5425.38	0.00	14.0	7.10	0.09	5.10	NM	NM	NM	NM	NM	NM
	09/08/99	5428.62	3.18	3.18	0.00	5425.44	5425.44	5425.44	0.00	19.7	6.70	0.24	6.76	3.38	NM	NM	NM	NM	NM
	12/29/99	5428.62	3.30	3.30	0.00	5425.32	5425.32	5425.32	0.00	9.0	6.70	0.16	NM	NM	NM	NM	NM	NM	NM
	04/04/00	5428.62	2.61	2.61	0.00	5426.01	5426.01	5426.01	0.00	9.6	NM	0.08	NM	NM	NM	NM	NM	3.75	NM
	06/08/00	5428.62	3.27	3.27	0.00	5425.35	5425.35	5425.35	0.00	17.5	7.30	0.07	9.10	NM	NM	NM	NM	5.00	NM
	09/06/00	5428.62	3.60	3.60	0.00	5425.02	5425.02	5425.02	0.00	21.3	NM	0.28	NM	NM	NM	NM	NM	3.00	NM
	12/08/00	5428.62	3.43	3.43	0.00	5425.19	5425.19	5425.19	0.00	21.3	NM	0.28	NM	NM	NM	NM	NM	3.00	NM
	10/08/00	5430.75	5.35	5.35	0.00	5425.40	5425.40	5425.40	0.00	NM	NM	NM	6.66	NM	NM	NM	NM	NM	NM
	12/31/96	5430.75	4.64	4.64	0.00	5426.11	5426.11	5426.11	0.00	NM	NM	1.80	6.66	NM	NM	NM	NM	NM	NM
	03/18/97	5430.75	3.88	3.88	0.00	5426.87	5426.87	5426.87	0.00	NM	NM	NM	6.49	NM	NM	NM	NM	NM	NM
	06/16/97	5430.75	4.15	4.15	0.00	5426.60	5426.60	5426.60	0.00	NM	NM	0.21	7.25	NM	NM	NM	NM	NM	NM
QMRTABLE 1	09/26/97	5430.75	4.36	4.36	0.00	5426.39	5426.39	5426.39	0.00	NM	NM	0.32	7.97	NM	NM	NM	NM	NM	NM
	12/22/97	5430.75	4.25	4.25	0.00	5426.50	5426.50	5426.50	0.00	NM	NM	1.27	8.69	NM	NM	NM	NM	NM	NM
	04/27/98	5430.75	4.31	4.31	0.00	5426.44	5426.44	5426.44	0.00	NM	NM	1.54	8.91	NM	NM	NM	NM	NM	NM
	06/23/98	5430.75	4.97	4.97	0.00	5425.78	5425.78	5425.78	0.00	NM	7.26	0.27	9.06	NM	NM	NM	NM	NM	NM
	09/24/98	5430.75	5.03	5.03	0.00	5425.72	5425.72	5425.72	0.00	19.4	7.10	0.11	8.46	NM	NM	NM	NM	NM	NM
	12/28/98	5430.75	3.83	3.83	0.00	5426.92	5426.92	5426.92	0.00	8.1	7.60	0.84	9.16	NM	NM	NM	NM	NM	NM
	04/12/99	5430.75	4.31	4.31	0.00	5426.44	5426.44	5426.44	0.00	10.2	7.30	0.22	10.55	5.30	NM	NM	NM	NM	NM
	06/02/99	5430.75	4.53	4.53	0.00	5426.22	5426.22	5426.22	0.00	13.4	6.90	0.20	6.90	NM	NM	NM	NM	NM	NM
	09/08/99	5430.75	4.28	4.28	0.00	5426.47	5426.47	5426.47	0.00	18.7	7.20	0.33	12.63	6.31	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	QW	Product	Prod Elev	alter Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-23	12/29/99	5430.75	4.12	4.12	0.00	5426.63	5426.63	5426.63	0.00	10.0	6.80	0.41	NM	NM	NM	NM	NM	3.00	NM
	04/04/00	5430.75	3.61	3.61	0.00	5427.14	5427.14	5427.14	0.00	9.3	NM	0.39	NM	NM	NM	NM	NM	5.00	NM
	06/08/00	5430.75	3.96	3.96	0.00	5426.79	5426.79	5426.79	0.00	13.7	7.70	0.08	5.60	NM	NM	NM	NM	2.75	NM
	09/06/00	5430.75	4.50	4.50	0.00	5426.25	5426.25	5426.25	0.00	18.9	NM	0.15	NM	NM	NM	NM	NM	2.00	NM
	12/08/00	5430.75	4.52	4.52	0.00	5426.23	5426.23	5426.23	0.00	18.9	NM	0.15	NM	NM	NM	NM	NM	2.50	NM
	10/07/96	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5448.32	NM	NM	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5448.32	NM	NM	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5448.32	NM	NM	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-24	04/27/98	5448.32	NM	NM	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5448.32	NM	NM	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	05/14/00	5448.32	DRY	DRY	NM	NM	NM	NM	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5449.34	DRY	DRY	DRY	DRY	DRY	DRY	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5449.34	DRY	DRY	DRY	DRY	DRY	DRY	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5449.34	DRY	DRY	DRY	DRY	DRY	DRY	0.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5447.53	15.00	15.00	0.00	5432.53	5432.53	5432.53	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-25	03/19/97	5447.53	15.01	15.01	0.00	5432.52	5432.52	5432.52	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5447.53	14.40	14.40	0.00	5433.13	5433.13	5433.13	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5447.53	DRY	DRY	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5447.53	13.96	13.96	0.00	5433.57	5433.57	5433.57	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5447.53	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	05/14/00	5447.53	13.40	13.40	0.00	5434.13	5434.13	5434.13	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-26	06/16/00	5449.23	15.09	15.09	0.00	5434.14	5434.14	5434.14	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5449.23	15.73	15.73	0.00	5433.50	5433.50	5433.50	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5449.23	15.73	15.73	0.00	5433.50	5433.50	5433.50	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5447.62	14.70	14.70	0.00	5432.92	5432.92	5432.92	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5447.62	DRY	DRY	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5447.62	DRY	DRY	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5447.62	14.92	14.92	0.00	5432.70	5432.70	5432.70	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	Water Ele	dj Wl Ele	Accum Pro	Dag. C	pH	DO mg/l	Seimen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
MW-26	12/31/98	5447.62	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5447.62	14.81	14.81	0.00	5432.81	5432.81	5432.81	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5447.62	14.73	14.73	0.00	5432.89	5432.89	5432.89	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	05/14/00	5447.62	14.18	14.18	0.00	5433.44	5433.44	5433.44	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	08/16/00	5448.74	15.15	15.15	0.00	5433.59	5433.59	5433.59	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5448.74	15.07	15.07	0.00	5433.67	5433.67	5433.67	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5448.74	15.11	15.11	0.00	5433.63	5433.63	5433.63	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5447.26	DRY	DRY	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5447.26	WELL COVERED																
	10/07/96	5448.04	DRY	DRY	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5448.04	DRY	DRY	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-27	03/19/97	5448.04	DRY	DRY	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5448.04	NM	NM	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5448.04	NM	NM	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5448.04	NM	NM	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5448.04	NM	NM	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5448.04	NM	NM	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5448.04	DRY	DRY	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5448.04	DRY	DRY	NM	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	05/14/00	5448.04	14.02	14.02	0.00	5434.02	5434.02	5434.02	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5449.01	DRY	DRY	DRY	DRY	DRY	DRY	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5449.01	DRY	DRY	DRY	DRY	DRY	DRY	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5449.01	DRY	DRY	DRY	DRY	DRY	DRY	8.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-28	10/07/96	5448.06	14.98	14.98	0.00	5433.08	5433.08	5433.08	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5448.06	14.97	14.97	0.00	5433.09	5433.09	5433.09	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5448.06	14.96	14.96	0.00	5433.10	5433.10	5433.10	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5448.06	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5448.06	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5448.06	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/28/98	5448.06	14.74	14.74	0.00	5433.32	5433.32	5433.32	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5448.06	14.87	14.87	0.00	5433.19	5433.19	5433.19	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5448.06	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5448.06	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5448.06	14.76	14.76	0.00	5433.30	5433.30	5433.30	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5448.06	14.55	14.55	0.00	5433.51	5433.51	5433.51	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-29	06/16/00	5449.07	15.02	15.02	0.55	5434.05	5433.50	5433.89	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5449.07	15.53	15.52	0.39	5433.54	5433.15	5433.42	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5449.07	15.53	15.76	0.23	5433.54	5433.31	5433.47	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5446.90	14.59	14.82	0.23	5432.31	5432.08	5432.24	7.10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/96	5446.90	14.65	14.78	0.13	5432.25	5432.12	5432.21	7.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5446.90	14.61	14.69	0.08	5432.29	5432.21	5432.27	7.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5446.90	14.50	14.52	0.02	5432.40	5432.38	5432.39	7.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5446.90	14.36	14.40	0.04	5432.54	5432.50	5432.53	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5446.90	14.36	14.40	0.04	5432.54	5432.50	5432.53	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5446.90	NM	NM	NM	NM	NM	NM	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/24/98	5448.90	14.09	14.09	0.00	5432.81	5432.81	5432.81	7.14	NM	NM	0.20	5.73	NM	NM	NM	NM	NM	NM
	09/24/98	5448.90	NM	NM	NM	NM	NM	NM	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	Q/W	Product	Prod Elev	atm Elev	dj WL Elev	Accum Pro	Deg. C	pH	DO mg/l	Salmen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
POND POND RW-24	12/31/98	5446.90	NM	NM	NM	5432.90	NM	5432.90	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5446.90	14.00	14.00	0.00	5432.90	5432.90	5432.90	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5446.90	13.84	13.84	0.00	5433.06	5433.06	5433.06	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5447.94	14.36	14.36	0.00	5433.56	5433.56	5433.56	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5447.94	14.87	14.87	0.00	5433.07	5433.07	5433.07	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5447.94	14.91	14.91	0.00	5433.03	5433.03	5433.03	7.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/02/99		NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99		NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5445.72	13.87	15.34	1.47	5431.85	5430.38	5431.41	103.52	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5445.72	13.94	15.34	1.40	5431.78	5430.38	5431.36	104.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5445.72	13.90	14.94	1.04	5431.82	5430.78	5431.51	104.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW-25	06/18/97	5445.72	13.77	14.52	0.75	5431.95	5431.20	5431.73	104.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5445.72	13.73	14.25	0.52	5431.99	5431.47	5431.83	104.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5445.72	13.72	14.21	0.49	5432.00	5431.51	5431.85	104.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5445.72	13.55	13.75	0.20	5432.17	5431.97	5432.11	104.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/22/98	5445.72	13.63	14.04	0.41	5432.09	5431.68	5431.97	105.03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/23/98	5445.72	13.88	14.88	1.00	5431.84	5430.84	5431.54	105.16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5445.72	13.80	14.42	0.62	5431.92	5431.30	5431.73	105.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5445.72	13.63	13.83	0.20	5432.09	5431.89	5432.03	105.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5445.72	13.45	13.57	0.12	5432.27	5432.15	5432.23	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5445.72	13.37	13.43	0.06	5432.35	5432.29	5432.33	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5445.72	13.11	13.11	0.00	5432.61	5432.61	5432.61	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW-26	06/16/00	5447.73	14.99	14.99	0.00	5432.74	5432.74	5432.74	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5447.73	15.46	15.46	0.00	5432.27	5432.27	5432.27	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5447.73	15.49	15.49	0.00	5432.24	5432.24	5432.24	105.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/07/96	5446.67	14.84	15.01	0.17	5431.83	5431.66	5431.78	49.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5446.67	14.89	15.02	0.13	5431.78	5431.65	5431.74	49.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5446.67	14.77	15.02	0.25	5431.90	5431.65	5431.83	14.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5446.67	14.50	15.29	0.79	5432.17	5431.38	5431.93	49.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5446.67	14.49	14.97	0.48	5432.18	5431.70	5432.04	49.60	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5446.67	14.39	14.54	0.15	5432.28	5432.13	5432.24	49.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5446.67	13.25	13.25	0.00	5433.42	5433.42	5433.42	49.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/22/98	5446.67	14.36	14.38	0.02	5432.31	5432.29	5432.30	49.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW-26	09/23/98	5446.67	14.66	15.42	0.76	5432.01	5431.25	5431.78	49.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5446.67	14.44	14.86	0.42	5432.23	5431.81	5432.10	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5446.67	14.28	14.31	0.03	5432.39	5432.36	5432.38	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/04/99	5446.67	14.16	14.18	0.02	5432.51	5432.49	5432.50	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5446.67	13.10	13.11	0.01	5433.57	5433.56	5433.57	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5446.67	13.74	13.75	0.01	5432.93	5432.92	5432.93	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5448.68	15.69	15.69	0.00	5432.99	5432.99	5432.99	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5448.68	16.17	16.17	0.00	5432.51	5432.51	5432.51	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5448.68	16.16	16.16	0.00	5432.52	5432.52	5432.52	49.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5443.98	12.97	13.70	0.73	5431.01	5430.28	5430.79	0.70	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/17/97	5443.98	12.00	12.56	0.56	5431.98	5431.42	5431.81	0.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5443.98	11.60	12.35	0.75	5432.38	5431.63	5432.16	2.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW-26	09/29/97	5443.98	11.64	11.77	0.13	5432.34	5432.21	5432.30	2.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5443.98	11.63	11.64	0.01	5432.35	5432.34	5432.35	2.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	OW	Product	Prod Elev	alter Ele	dl W/L Ele	Accum Pro	Deg. C	pH	DO mg/l	Semen/m	TDS	ORP	NTU's	% Salinity	Purged	DEPTH
T-17-1	04/29/98	5443.98	11.47	11.47	0.00	5432.51	5432.51	5432.51	2.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/22/98	5443.98	11.59	11.59	0.00	5432.39	5432.39	5432.39	2.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5443.98	NM	NM	NM	NM	NM	NM	2.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5443.98	11.65	11.75	0.10	5432.33	5432.23	5432.30	2.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5443.98	11.50	11.50	0.00	5432.48	5432.48	5432.48	2.53	NM	6.90	NM	3.80	NM	NM	NM	NM	NM	NM
	06/03/99	5443.98	11.29	11.29	0.00	5432.69	5432.69	5432.69	2.53	NM	6.90	NM	3.80	NM	NM	NM	NM	NM	NM
	09/09/99	5443.98	NM	NM	NM	NM	NM	NM	2.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/05/00	5443.98	10.93	10.93	0.00	5433.05	5433.05	5433.05	2.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/08/00	NM	NM	NM	NM	NM	NM	NM	2.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	NM	13.73	14.33	0.60	NM	NM	NM	3.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	NM	13.78	14.38	0.60	NM	NM	NM	3.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/10/96	5452.41	18.05	18.11	0.06	5434.36	5434.30	5434.34	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5452.41	DRY	DRY	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5452.41	DRY	DRY	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5452.41	DRY	DRY	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5452.41	NM	NM	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
T-17-2	12/18/97	5452.41	NM	NM	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5452.41	NM	NM	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5452.41	17.52	17.94	0.42	5434.89	5434.47	5434.76	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5452.41	NM	NM	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5452.41	NM	NM	NM	NM	NM	NM	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5452.41	16.35	16.35	0.00	5436.06	5436.06	5436.06	6.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/03/99	5452.41	17.30	17.34	0.04	5435.11	5435.07	5435.10	6.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/09/99	5452.41	NM	NM	NM	NM	NM	NM	6.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5452.41	16.68	16.68	0.00	5435.73	5435.73	5435.73	6.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5452.41	17.25	17.25	0.00	5435.16	5435.16	5435.16	6.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/11/00	5452.41	17.20	17.20	0.00	5435.21	5435.21	5435.21	6.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/10/96	5453.51	17.35	17.35	0.00	5436.16	5436.16	5436.16	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5453.51	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5453.51	19.74	19.74	0.00	5433.77	5433.77	5433.77	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5453.51	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5453.51	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5453.51	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
T-17-3	04/29/98	5453.51	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/16/00	5453.51	WELL DESTROYED										NM	NM	NM	NM	NM	NM	NM
	10/10/96	5450.98	19.85	19.90	0.05	5431.13	5431.08	5431.12	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/96	5450.98	17.16	17.16	0.00	5433.82	5433.82	5433.82	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/19/97	5450.98	17.20	17.20	0.00	5433.78	5433.78	5433.78	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/97	5450.98	17.38	17.38	0.00	5433.60	5433.60	5433.60	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/29/97	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/18/97	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/29/98	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/25/98	5450.98	16.39	16.39	0.00	5434.59	5434.59	5434.59	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/24/98	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/31/98	5450.98	16.70	16.70	0.00	5434.23	5434.28	5434.28	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/14/99	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/03/99	5450.98	16.10	16.10	0.00	5434.88	5434.88	5434.88	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA

Well #	Date	TOC elev	A/O	O/W	Product	Prod Elev	ater Ele	dj WL Ele	Accum Pro	Deg. C	pH	DO mg/L	Salinen/m	IDS	ORP	NTU's	% Salinity	Purged	DEPTH
	09/09/99	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/18/00	5450.98	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/07/00	5452.41	Well is covered need relocating.																
UST																			
	04/21/95	GALLONS RECOVERED THIS QUARTER						GALLONS	ACCUM										
	06/16/95	GALLONS RECOVERED THIS QUARTER						633.25	633.25										
	08/25/95	GALLONS RECOVERED THIS QUARTER						1055.40	1688.65										
	11/12/95	GALLONS RECOVERED THIS QUARTER						0.00	1688.65										
	03/05/96	GALLONS RECOVERED THIS QUARTER						79.16	1767.81										
	06/04/96	GALLONS RECOVERED THIS QUARTER						0.00	1767.81										
	10/10/96	GALLONS RECOVERED THIS QUARTER						250.00	2017.81										
	12/30/96	GALLONS RECOVERED THIS QUARTER						2650.00	4667.81										
	03/19/97	NO GALLONS RECOVERED THIS QUARTER						0.00	4667.81										
	06/18/97	NO GALLONS RECOVERED THIS QUARTER						0.00	4667.81										
	07/09/97	NO GALLONS RECOVERED THIS QUARTER						0.00	4667.81										
	10/01/97	GALLONS RECOVERED THIS QUARTER						0.00	4667.81										
UST																			
	12/18/97	NO GALLONS RECOVERED THIS QUARTER						250.00	4917.81										
	04/29/98	GALLONS RECOVERED THIS QUARTER						0.00	4917.81										
	06/25/98	GALLONS RECOVERED THIS QUARTER						250.00	5167.81										
	09/24/98	GALLONS RECOVERED THIS QUARTER						275.00	5442.81										
	12/31/98	NO GALLONS RECOVERED THIS QUARTER						0.00	5442.81										
	04/12/99	NO GALLONS RECOVERED THIS QUARTER						0.00	5442.81										
	06/03/99	GALLONS RECOVERED THIS QUARTER						0.00	5442.81										
	09/09/99	NO GALLONS RECOVERED THIS QUARTER						300.00	5742.81										
	12/30/99	NO GALLONS RECOVERED THIS QUARTER						0.00	5742.81										
	04/05/00	GALLONS RECOVERED THIS QUARTER						0.00	5742.81										
	06/08/00	GALLONS RECOVERED THIS QUARTER						350.00	6092.81										
	09/07/00	GALLONS RECOVERED THIS QUARTER						250.00	6342.81										
	12/12/00	GALLONS RECOVERED THIS QUARTER						1000.00	7342.81										
	01/17/01	GALLONS RECOVERED THIS QUARTER						0.00	7342.81										
								1600.00	8942.81										

NOTE: NM SIGNIFIES NOT MEASURED
TOTAL PRODUCT RECOVERED TO 9174.35 GALLONS

TABLE 1-A
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA (MOST RECENT)

Well	Date	Time	A/O	O/W	Product Thick	pH	umhos/cm	NTU	DO mg/l	Deg C.	Salinity %	TDs g/L	ORP mv	Purged
MW-01	2.01.02	1244	14.78	14.78										
	2.04.02	1218	9.17	9.18	0.01									
MW-02	2.01.02	1133	11.91	11.91										monitor only
MW-03	2.01.02	1105	6.03	6.03										monitor only
MW-04	5.02.01	1355	4.96	4.96		6.9	1.41	211	2.15	18	0.8	9	-62	5
	7.30.01	1550	5.72	5.72		7	1.56	OR	11.54	25	0.9	10	-9	6
	1.30.02	1501	5.37	5.37										P
MW-05	1.30.02	1523	5.33	5.33										P
MW-06	5.03.01	1026	5.15	5.15		7.3	1.35	87	5.33	12.7	0.8	9	148	5
	7.30.01	1537	5.86	5.86		7.1	1.57	14	14.21	20.5	0.9	10	-20	6
	1.30.02	1547	5.22	5.22										P
MW-07	2.01.02	1042	5.32	5.32										monitor only
MW-08	5.30.01	954	4.05	4.05		7.1	1.79	219	4.57	11.9	1	11	49	5.2
	7.30.01	1515	5.86	5.86		7	2.61	131	13.34	23.9	1.6	16	171	6
	1.31.02	1042	5.32	5.32										
MW-09	1.30.02													well not found
MW-10	1.31.02	1102	5.21	5.21										P
MW-11	1.31.02	1121	5.71	5.71										P
MW-12	1.31.02	1452	14.09	14.09										P
MW-13	5.03.01	1055	16.59	16.59		7	2.33	85	1.83	14.3	1.4	14	164	5
	7.31.01	925	17.19	17.19		7.8	2.4	30	16.07	16.4	1.5	15	190	17.5
	1.31.02	1430	17.25	17.25										P
MW-14	2.01.02	1239	12.22	12.22										monitor only
MW-15	5.03.01	1135	11.89	11.89		7.3	2.21	145	4.2	12.1	1	10	50	1.4
	01.31.02	1142	12.49	12.49										P
MW-16	2.01.02	1300	5.78	5.78										well not found

TABLE 1-A
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER MONITOR DATA (MOST RECENT)

Well	Date	Time	A/O	O/W	Product Thick	pH	umhos/cm	NTU	DO mg/l	Deg C.	Salinity %	TDs g/L	ORP mv	Purged
MW-17	2.01.02	1118	5.78	5.78										monitor only
MW-18	5.02.01	1337	4.32	4.32		7.1	1.46	OR	4.26	17.9	0.8	9	-84	5.2
	7.31.01	857	4.84	4.84		7.9	1.44	OR	12.55	19.7	0.09	9	-104	5
	1.30.02	1418	4.61	4.61										P
MW-19	1.31.02	925	5.87	5.87										
MW-20	1.31.02	947	6.04	6.04										P
MW-21	1.30.02	1007	3.41	3.41										P
MW-22	5.02.01	1438	4.01	4.01		6.9	2	268	3.57	18.4	1.2	12	-24	5.2
	7.31.01	1454	5.25	5.25		6.1	2.8	343	16.1	23.4	1.7	18	-20	5
	1.31.02	1026	4.55	4.55										P
MW-23	2.01.02	1211	DRY	DRY										
MW-24	2.01.02	1201	16.05	16.05										monitor only
MW-25	2.01.02	1158	15.33	15.33										monitor only
MW-27	2.01.02	1214	DRY	DRY										
MW-28	2.01.02	1227	15.95	15.95										monitor only
MW-29	2.02.02	1216	15.19	15.19										monitor only
RW-24	2.01.02	1151	16.17	16.17										monitor only
RW-25	2.01.02	1154	16.45	16.45										monitor only
RW-26	2.01.02	1142	14.65	14.65										monitor only
T-17-1	2.01.02	1230	17.6	17.6										monitor only
T-17-3	2.01.02	1232												monitor only

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
EFFLUENT	06/22/94		SYSTEM SHUT DOWN			
	09/20/94	ND	9.3	0.9	ND	0.7
	01/20/95	NS	NS	NS	NS	NS
	04/12/95	7.5	97.5	363.0	278.0	2638.0
	11/12/95	3.2	33.9	12.3	8.9	48.1
	03/05/96	7.0	50.0	21.2	7.1	43.4
	06/04/96	3.5	2.4	0.7	0.9	3.8
	07/18/96	7.4	62.6	43.7	13.1	88.9
	10/09/96	1.2	3.7	ND	1.4	4.4
	12/31/96		SYSTEM SHUT DOWN			
	03/20/97		AIR STRIPPER MODIFIED			
	03/24/97	NM	3.4	1.9	0.9	2.7
	03/28/97	NM	18.7	10.5	5.3	16.0
	04/02/97	NM	5.4	2.6	1.4	4.8
	04/03/97	NM	ND	ND	ND	ND
	04/04/97	NM	ND	ND	ND	0.1
	04/10/97	NM	0.5	0.3	0.2	1.2
	04/18/97	4.8	4.0	0.4	0.4	1.2
	05/30/97		LARGER BLOWER INSTALLED			
	06/09/97	NM	ND	ND	0.5	0.5
	06/27/97	NM	ND	0.2	0.2	0.4
	07/25/97	NM	ND	ND	ND	ND
	07/31/97	NM	ND	ND	ND	ND
	09/03/97	NM	0.8	0.5	1.1	6.2
	12/22/97	NM	122.6	97.2	44.5	131.9
EFFLUENT	02/09/98	5.9	77.5	115.5	47.1	134.1
	02/19/98	10.0	110.0	110.0	46.0	171.0
	02/20/98	5.6	83.0	96.0	46.0	209.0
	02/23/98	13.0	200.0	160.0	81.0	289.0
	03/03/98	30.0	220.0	140.0	84.0	243.0
	03/04/98	22.0	200.0	140.0	80.0	247.0
	03/05/98	17.0	130.0	94.0	56.0	176.0
	03/05/98		SYSTEM SHUT DOWN FOR CLEANING			
	04/24/98	54.0	310.0	410.0	230.0	970.0
	04/28/98	42.0	770.0	350.0	280.0	580.0
	04/28/98		SYSTEM SHUT DOWN FOR TRAY REPAIRS			
	06/11/98		117.0			
	06/12/98		270.0			
	06/15/98		200.0			
	06/17/98		NEW STRIPPER INSTALLATION			
	06/24/98		NEW STRIPPER INSTALLATION			
	09/24/98	6.2	2.6	1.6	ND	2.7
	10/21/98	ND	2.6	1.6	ND	2.7

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Well A #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	EFFLUENT	11/16/98	ND	ND	ND	ND	2.0
	EFFLUENT	12/31/98	71.0	9.6	7.7	5.8	21.4
EFFLUENT	EFFLUENT	02/16/99	4.8	1.0	2.6	2.3	8.2
	EFFLUENT	03/02/99	12.0	2.2	1.5	1.9	6.0
	EFFLUENT	03/05/99	13.0	2.0	1.3	1.9	5.5
	EFFLUENT	03/12/99	5.7	1.0	1.9	1.5	7.0
	EFFLUENT	03/19/99	4.8	1.6	1.4	1.4	5.4
	EFFLUENT	03/26/99	14.0	2.1	1.1	0.6	6.6
	EFFLUENT	04/13/99	34.0	50.0	130.0	14.0	81.0
	EFFLUENT	05/04/99	16.0	0.7	3.6	1.0	4.0
	EFFLUENT	06/02/99	21.0	2.3	3.8	2.3	10.4
	EFFLUENT	07/07/99	14.0	1.9	5.4	0.6	3.5
	EFFLUENT	08/09/99	ND	ND	1.0	ND	1.2
	EFFLUENT	09/02/99	ND	0.9	2.6	1.1	4.7
	EFFLUENT	09/09/99	ND	1.8	9.6	2.6	12.1
	EFFLUENT	10/04/99	ND	2.8	2.5	1.3	5.7
	EFFLUENT	11/01/99	2.9	2.6	1.9	2.1	10.3
	EFFLUENT	12/17/99	11.0	5.5	7.2	3.5	17.0
	EFFLUENT	12/28/99	6.8	1.9	2.6	2.1	9.5
	EFFLUENT	02/08/00	8.7	3.3	1.3	1.3	5.7
	EFFLUENT	04/03/00	20.0	6.2	1.8	2.6	11.4
	EFFLUENT	04/17/00	22.0	19.0	4.2	9.0	40.3
	EFFLUENT	05/08/00	460.0	3100.0	3200.0	660.0	2840.0
	EFFLUENT	05/08/00	System shut down for cleaning oil found in outlet				
	EFFLUENT	05/22/00	39.0	26.0	19.0	6.4	32.0
	EFFLUENT	05/22/00	System shut down for cleaning found broken baffels.				
	EFFLUENT	05/26/00	System shut down for repairs.				
	EFFLUENT	05/31/00	4.1	1.7	ND	1.2	2.8
	EFFLUENT	06/05/00	10.0	3.0	2.1	0.7	4.4
	EFFLUENT	06/29/00	2.9	1.5	1.8	ND	3.4
	EFFLUENT	08/03/00	16.0	0.8	0.6	ND	1.6
	EFFLUENT	09/14/00	ND	ND	ND	ND	1.7
	EFFLUENT	10/09/00	22.0	0.7	ND	ND	1.5
	EFFLUENT	11/08/00	12.0	6.1	1.9	4.1	17.5
	EFFLUENT	12/07/00	31.0	ND	ND	ND	1.5
EFFLUENT DUP	EFFLUENT DUP	02/09/98	5.9	77.5	97.2	44.5	131.9
EFFLUENT DUP	EFFLUENT DUP	02/16/99	ND	0.6	2.2	0.8	3.6
INFLUENT	INFLUENT	06/22/94	SYSTEM SHUT DOWN				
	INFLUENT	09/20/94	50.0	9670.0	754.0	158.0	633.0
	INFLUENT	01/20/95	NS	NS	NS	NS	NS
	INFLUENT	04/12/95	24.5	2060.0	987.0	246.0	1689.0
	INFLUENT	03/05/96	155.0	6990.0	3570.0	1300.0	6680.0
	INFLUENT	06/04/96	95.0	4607.7	1794.7	523.8	2254.0

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	10/09/96	13.2	3116.0	1332.2	504.2	1588.0
	12/31/96	SYSTEM SHUT DOWN				
	03/24/97	NM	2110.0	1011.0	47.0	1279.0
	03/28/97	NM	1827.0	850.0	40.6	1146.0
	04/02/97	NM	1436.0	650.0	361.0	1279.0
	07/31/97	NM	4641.0	4939.0	1128.0	4708.0
	09/24/97	NM	1600.0	923.0	660.0	1529.0
	12/22/97	NM	2078.0	1610.0	729.0	2053.0
	02/09/98	37.0	1761.0	2542.0	963.0	461.0
	06/23/98	SYSTEM SHUT DOWN				
	12/31/98	440.0	1200.0	860.0	760.0	1800.0
	02/16/99	40.0	120.0	270.0	230.0	1000.0
	03/02/99	100.0	650.0	250.0	470.0	890.0
	03/05/99	120.0	760.0	280.0	530.0	1000.0
	03/12/99	140.0	370.0	370.0	440.0	1520.0
	03/19/99	170.0	1100.0	460.0	750.0	1760.0
	03/26/99	140.0	980.0	430.0	710.0	1900.0
	04/13/99	ND	6400.0	16000.0	1600.0	6800.0
	05/04/99	190.0	1200.0	2700.0	860.0	2720.0
	06/02/99	200.0	1200.0	1800.0	900.0	3190.0
	07/07/99	960.0	2600.0	6700.0	1000.0	3230.0
	08/09/99	150.0	840.0	1800.0	670.0	1740.0
	09/02/99	350.0	1300.0	2500.0	720.0	2080.0
	09/09/99	360.0	1800.0	5900.0	1200.0	5000.0
	10/04/99	370.0	2000.0	1600.0	820.0	2960.0
	11/01/99	270.0	1800.0	1000.0	790.0	3300.0
	12/17/99	220.0	1500.0	1700.0	820.0	3560.0
	12/28/99	230.0	1500.0	1300.0	800.0	3400.0
	02/08/00	190.0	1800.0	540.0	640.0	2230.0
	04/03/00	250.0	1900.0	410.0	660.0	2530.0
	04/17/00	230.0	2100.0	440.0	660.0	2440.0
	05/22/00	220.0	2400.0	1800.0	600.0	2460.0
	05/31/00	100.0	1200.0	500.0	530.0	1180.0
	06/05/00	260.0	2400.0	2400.0	680.0	2640.0
	06/29/00	190.0	2200.0	2300.0	760.0	2980.0
	08/03/00	ND	1600.0	740.0	610.0	1870.0
	09/14/00	140.0	1100.0	290.0	530.0	1460.0
	10/09/00	210.0	1600.0	280.0	610.0	2220.0
	11/08/00	180.0	840.0	170.0	520.0	1790.0
	12/07/00	1400.0	1700.0	890.0	560.0	2220.0
MW-01	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/07/96	244.6	255.1	10.9	36.5	192.8

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	12/31/96	219.6	164.0	5.3	9.8	176.6
	03/19/97	NM	45.6	1.3	5.1	39.8
	06/18/97	NM	26.7	0.7	3.8	39.7
	09/24/97	NM	134.9	5.9	15.8	94.7
	12/23/97	NM	58.7	1.6	4.9	94.7
	04/28/98	79.0	58.0	2.8	4.9	21.1
	06/24/98	59.0	14.0	ND	1.4	1.8
	09/23/98	71.0	15.0	ND	1.8	ND
	12/30/98	120.0	120.0	1.4	7.5	25.0
	04/14/99	140.0	190.0	0.8	5.3	4.4
	06/03/99	78.0	29.0	ND	1.1	ND
	09/09/99	73.0	560.0	1.0	21.0	6.7
	12/30/99	46.0	320.0	ND	18.0	5.2
MW-01 DUP	06/03/99	80.0	27.0	ND	1.0	ND
MW-02	03/05/96	664.0	3120.0	53.5	484.0	519.8
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/31/96	FREE PRODUCT FOUND IN WELL				
	03/19/97	FREE PRODUCT FOUND IN WELL				
	06/17/97	FREE PRODUCT FOUND IN WELL				
	09/24/97	FREE PRODUCT FOUND IN WELL				
	12/23/97	FREE PRODUCT FOUND IN WELL				
	04/28/98	FREE PRODUCT FOUND IN WELL				
	06/22/98	FREE PRODUCT FOUND IN WELL				
	09/23/98	150.0	2000.0	40.0	610.0	1120.0
	12/30/98	Product	Product	Product	Product	Product
	04/14/99	Product	Product	Product	Product	Product
	06/03/99	160.0	2000.0	31.0	650.0	1070.0
	09/09/99	Product	Product	Product	Product	Product
	12/30/99	110.0	1900.0	5.6	620.0	670.0
MW-2 DUP	09/23/98	160.0	2000.0	42.0	630.0	1280.0
MW-03	03/05/96	298.0	117.0	5.9	28.2	16.9
	06/04/96	NOT SAMPLED				
	10/09/96	224.7	41.7	4.0	5.8	4.3
	12/31/96	NS	NS	NS	NS	NS
	03/19/97	NS	NS	NS	NS	NS
	06/17/97	NS	NS	NS	NS	NS
	09/24/97	FREE PRODUCT FOUND IN WELL				
	12/23/97	FREE PRODUCT FOUND IN WELL				
	04/28/98	FREE PRODUCT FOUND IN WELL				
	06/24/98	200.0	120.0	ND	8.2	ND
	09/22/98	NS	NS	NS	NS	NS
	12/30/98	NS	NS	NS	NS	NS
	04/13/99	180.0	170.0	1.4	23.0	4.2

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	06/03/99	NS	NS	NS	NS	NS
MW-04	03/05/96	31.5	50.0	5.6	ND	8.3
	06/04/96	35.0	1.0	3.3	3.3	7.0
	10/09/96	33.0	0.9	2.1	2.2	1.2
	12/31/96	27.0	3.5	1.4	1.7	1.6
	03/19/97	NM	21.7	0.5	2.6	2.3
	06/17/97	NM	8.4	1.6	2.2	1.4
	09/24/97	NM	3.7	3.0	5.1	2.0
	12/22/97	NM	3.8	3.1	3.0	1.3
	04/28/98	WELL BURIED BY AZTEC WELL SERVICE				
	06/05/00	20.0	9.4	ND	2.7	ND
	09/05/00	20.0	22.0	ND	3.6	0.6
	12/06/00	36.0	9.3	ND	ND	ND
MW-05	03/05/96	52.9	2.0	0.4	0.6	1.2
	06/04/96	47.2	0.3	ND	0.2	ND
	10/09/96	48.6	0.6	ND	ND	ND
	12/31/96	47.9	4.8	ND	0.2	1.1
	03/19/97	NM	5.8	ND	0.4	0.2
	06/17/97	NM	6.7	0.3	0.5	0.2
	09/24/97	NM	9.6	9.6	9.6	9.6
	12/19/97	NM	8.6	0.3	0.4	ND
	04/27/98	56.0	9.2	ND	ND	ND
	06/24/98	56.0	10.0	ND	0.6	ND
	09/21/98	56.0	11.0	ND	ND	ND
	12/29/98	52.0	12.0	ND	0.7	ND
	04/12/99	43.0	6.7	ND	0.5	ND
	06/02/99	56.0	12.0	ND	0.8	ND
	09/08/99	54.0	12.0	0.5	ND	ND
	12/29/99	49.0	10.0	ND	0.6	ND
	04/03/00	51.0	11.0	ND	0.6	ND
	06/05/00	46.0	9.4	ND	ND	ND
	09/05/00	59.0	11.0	ND	0.6	ND
	12/06/00	44.0	8.4	ND	ND	ND
MW-05 DUP	06/02/99	57.0	13.0	ND	0.7	ND
	12/29/99	49.0	10.0	ND	0.6	ND
	06/07/00	35.0	6.5	ND	ND	ND
MW-06	03/05/96	0.9	0.2	ND	ND	ND
	06/04/96	8.3	1.0	2.5	0.2	0.8
	10/09/96	33.5	1.9	3.7	3.2	1.3
	12/31/96	0.9	0.3	5.4	0.9	1.1
	03/19/97	NM	0.6	0.8	0.8	4.0
	06/17/97	NM	19.1	3.3	2.4	0.3
	09/24/97	NM	20.3	6.2	4.5	1.9

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	12/23/97	NM	ND	ND	ND	ND
	04/27/98	3.7	6.3	0.6	ND	ND
	06/24/98	36.0	20.0	4.8	3.3	ND
	09/22/98	47.0	8.5	1.8	4.5	3.6
	12/30/98	2.8	ND	ND	ND	ND
	04/13/99	4.4	5.6	ND	ND	ND
	06/03/99	47.0	29.0	0.5	2.9	1.2
	09/09/99	64.0	24.0	0.8	4.3	1.9
	12/29/99	1.3	ND	ND	ND	ND
	04/03/00	1.6	ND	ND	ND	ND
	06/06/00	33.0	7.6	ND	1.9	ND
	09/05/00	59.0	10.0	ND	2.7	1.9
	12/06/00	1.8	ND	ND	ND	ND
MW-07	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/31/96	FREE PRODUCT FOUND IN WELL				
	03/19/97	NOT SAMPLED				
	06/17/97	NOT SAMPLED				
	09/24/97	NOT SAMPLED				
	12/23/97	NOT SAMPLED				
	04/28/98	NOT SAMPLED				
	06/24/98	190.0	240.0	1.1	444.0	97.4
	09/24/98	Sheen	Sheen	Sheen	Sheen	Sheen
	12/30/98	Sheen	Sheen	Sheen	Sheen	Sheen
	04/14/99	260.0	30.0	6.8	24.0	162.0
	06/03/99	Product	Product	Product	Product	Product
	09/09/99	Product	Product	Product	Product	Product
	12/30/99	300.0	9.3	ND	16.0	101.7
	04/05/00	320.0	10.0	ND	7.2	44.9
	06/06/00	310.0	4.7	ND	7.9	28.0
	12/06/00	NOT SAMPLED				
MW-07 DUP	12/30/99	300.0	13.0	ND	22.0	162.0
MW-08	03/05/96		DRY			
	06/03/96	SILTED IN TO 3.8 FEET BELOW GRADE				
	10/09/96	SILTED IN TO 3.8 FEET BELOW GRADE				
	12/31/96	35.8	ND	ND	ND	ND
	03/18/97	NM	NM	NM	NM	NM
	06/16/97	SILTED IN TO 3.6 FEET BELOW GRADE				
	09/25/97	NM	ND	ND	ND	ND
	12/22/97	NM	1.2	ND	ND	ND
	04/28/98	42.0	3.6	0.6	0.6	ND
	06/23/98		DRY			

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	09/22/98		DRY			
	12/29/98	SILTED IN TO 1.5 FEET BELOW GRADE				
	06/06/00	190.0	1.3	ND	ND	ND
	09/06/00	250.0	1.1	ND	ND	ND
	12/07/00	240.0	1.9	ND	ND	ND
MW-09	03/05/96	16.8	0.8	0.3	1.1	1.3
	06/03/96	15.8	0.4	ND	ND	ND
	10/09/96	16.5	ND	ND	ND	ND
	12/31/96	7.2	ND	ND	ND	ND
	03/18/97	NM	ND	ND	ND	0.3
	06/16/97	NM	ND	ND	ND	ND
	09/25/97	NM	ND	ND	ND	ND
	12/22/97	NM	ND	ND	ND	ND
	04/28/98	ND	ND	ND	ND	ND
	06/23/98	11.0	ND	ND	ND	ND
	09/22/98	19.0	ND	ND	ND	ND
	12/29/98	3.8	ND	ND	ND	ND
	04/12/99	3.0	ND	ND	ND	ND
	06/02/99	4.0	ND	ND	ND	ND
	09/07/99	18.0	ND	ND	ND	ND
	12/28/99	14.0	ND	ND	ND	ND
	04/04/00	5.3	ND	ND	ND	ND
	06/06/00	5.6	ND	ND	ND	ND
	09/05/00	9.0	ND	ND	ND	ND
	12/07/00	ND	ND	ND	ND	ND
MW-09 DUP	06/07/00	6.9	ND	ND	ND	ND
MW-10	03/05/96	ND	1.0	ND	0.9	0.4
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/31/96	ND	ND	ND	ND	ND
	03/18/97	NM	ND	ND	ND	ND
	06/16/97	NM	ND	ND	ND	ND
	09/25/97	NM	ND	ND	ND	ND
	12/22/97	NM	ND	ND	ND	ND
	04/28/98	ND	ND	ND	ND	ND
	06/23/98	ND	ND	ND	ND	ND
	09/22/98	ND	ND	ND	ND	ND
	12/29/98	ND	ND	ND	ND	ND
	04/12/99	ND	ND	ND	ND	ND
	06/02/99	ND	ND	ND	ND	ND
	09/07/99	ND	ND	ND	ND	ND
	12/28/99	ND	ND	ND	ND	ND
	04/03/00	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	06/06/00	ND	ND	ND	ND	ND
	09/05/00	ND	ND	ND	ND	ND
	12/07/00	ND	ND	ND	ND	ND
MW-11	03/05/96	ND	ND	ND	ND	0.3
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/31/96	ND	ND	ND	ND	ND
	03/18/97	NM	ND	ND	ND	ND
	06/16/97	NM	ND	ND	ND	ND
	09/25/97	NM	ND	ND	ND	ND
	12/22/97	NM	ND	ND	ND	ND
	04/28/98	ND	ND	ND	ND	ND
	06/23/98	ND	ND	ND	ND	ND
	09/22/98	ND	ND	ND	ND	ND
	12/29/98	ND	ND	ND	ND	ND
	04/12/99	ND	ND	ND	ND	ND
	06/02/99	ND	ND	ND	ND	ND
	09/07/99	ND	ND	ND	ND	ND
	12/28/99	ND	ND	ND	ND	ND
	04/03/00	ND	ND	ND	ND	ND
	06/06/00	ND	ND	ND	ND	ND
	09/06/00	ND	ND	ND	ND	ND
	12/07/00	ND	ND	ND	ND	ND
MW-12	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/31/96	FREE PRODUCT FOUND IN WELL				
	03/18/97	FREE PRODUCT FOUND IN WELL				
	06/18/97	FREE PRODUCT FOUND IN WELL				
	09/25/97	FREE PRODUCT FOUND IN WELL				
	12/22/97	FREE PRODUCT FOUND IN WELL				
	04/28/98	FREE PRODUCT FOUND IN WELL				
	06/24/98	FREE PRODUCT FOUND IN WELL				
	09/23/98	Product	Product	Product	Product	Product
	12/30/98	Product	Product	Product	Product	Product
	04/12/99	Product	Product	Product	Product	Product
	06/02/99	Product	Product	Product	Product	Product
	04/05/00	180.0	9.9	0.6	50.0	114.5
	12/08/00	150.0	20.0	1.0	35.0	72.4
MW-13	03/05/96	ND	ND	ND	ND	0.5
	06/04/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/30/96	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	03/18/97	NM	ND	ND	ND	ND
	06/16/97	NM	ND	ND	ND	ND
	09/23/97	NM	ND	ND	ND	ND
	12/19/97	NM	ND	ND	ND	ND
	04/24/98	ND	ND	ND	ND	ND
	06/23/98	ND	ND	ND	ND	ND
	09/21/98	ND	ND	ND	ND	ND
	12/29/98	ND	ND	ND	ND	ND
	04/12/99	ND	ND	ND	ND	ND
	06/02/99	ND	ND	ND	ND	ND
	09/07/99	ND	ND	ND	ND	ND
	12/28/99	ND	ND	ND	ND	ND
	04/03/00	ND	ND	ND	ND	ND
	06/05/00	ND	ND	ND	ND	ND
	09/05/00	ND	ND	ND	ND	ND
	12/07/00	ND	ND	ND	ND	ND
MW-14	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	103.7	7698.8	361.7	2107.7	2917.8
	12/30/96	94.8	6673.5	179.4	857.3	940.5
	03/19/97	NOT SAMPLED				
	06/18/97	NOT SAMPLED				
	09/23/97	NOT SAMPLED				
	12/19/97	NOT SAMPLED				
	04/28/98	69.0	2900.0	800.0	1100.0	1940.0
	06/24/98	89.0	2000.0	150.0	1100.0	360.0
	09/23/98	87.0	950.0	91.0	780.0	256.0
	12/30/98	Product	Product	Product	Product	Product
	04/12/99	Product	Product	Product	Product	Product
	06/02/99	Product	Product	Product	Product	Product
	09/09/99	Product	Product	Product	Product	Product
	12/30/99	85.0	780.0	470.0	1600.0	1660.0
MW-15	03/05/96	ND	1.6	0.4	3.8	3.5
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/30/96	ND	ND	ND	ND	ND
	03/18/97	NM	ND	ND	ND	ND
	06/17/97	NM	ND	ND	ND	ND
	09/26/97	NM	ND	ND	ND	ND
	12/22/97	NM	ND	ND	ND	ND
	04/24/98	ND	ND	ND	ND	ND
	06/23/98	ND	ND	ND	ND	ND
	09/21/98	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	12/28/98	ND	ND	ND	ND	ND
	04/12/99	ND	ND	ND	ND	ND
	06/02/99	ND	ND	ND	ND	ND
	09/07/99	ND	ND	ND	ND	ND
	12/28/99	ND	ND	ND	ND	ND
	04/04/00	ND	ND	ND	ND	ND
	06/07/00	ND	ND	ND	ND	ND
	09/06/00	ND	ND	ND	ND	ND
	12/08/00	ND	ND	ND	ND	ND
MW-16	03/05/96	ND	ND	ND	ND	ND
	06/04/96	NOT SAMPLED				
	10/09/96	ND	ND	ND	ND	ND
	12/30/96	ND	ND	ND	ND	ND
	03/19/97	NOT SAMPLED				
	06/18/97	NOT SAMPLED				
	09/23/97	NOT SAMPLED				
	12/19/97	NOT SAMPLED				
	06/24/98	ND	ND	ND	ND	ND
	09/23/98	NS	NS	NS	NS	NS
	12/30/98	ND	ND	ND	ND	ND
	04/12/99	NS	NS	NS	NS	NS
	06/03/99	ND	ND	ND	ND	ND
	09/09/99	NS	NS	NS	NS	NS
	12/30/99	NS	NS	NS	NS	NS
MW-16 DUP	12/30/98	ND	ND	ND	ND	ND
MW-17	03/05/96	FREE PRODUCT FOUND IN WELL				
	06/04/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/30/96	FREE PRODUCT FOUND IN WELL				
	03/18/97	FREE PRODUCT FOUND IN WELL				
	06/18/97	FREE PRODUCT FOUND IN WELL				
	09/23/97	FREE PRODUCT FOUND IN WELL				
	12/22/97	FREE PRODUCT FOUND IN WELL				
	04/28/98	FREE PRODUCT FOUND IN WELL				
	06/23/98	FREE PRODUCT FOUND IN WELL				
	09/23/98	FREE PRODUCT FOUND IN WELL				
	12/29/98	Product	Product	Product	Product	Product
	04/12/99	Product	Product	Product	Product	Product
	06/03/99	Product	Product	Product	Product	Product
	09/09/99	Product	Product	Product	Product	Product
	12/30/99	Product	Product	Product	Product	Product
	04/05/00	Product	Product	Product	Product	Product
	06/16/00	Product	Product	Product	Product	Product

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-18	03/05/96	53.0	6.8	2.4	1.8	14.1
	06/04/96	36.8	136.4	2.5	6.6	4.7
	10/09/96	31.9	60.1	1.1	1.5	0.7
	12/31/96	43.1	176.0	1.9	1.3	0.7
	03/19/97	NM	150.9	2.4	0.6	2.1
	06/18/97	NM	34.0	2.1	1.2	0.2
	09/24/97	NM	33.2	2.3	3.4	1.4
	12/23/97	NM	63.8	1.2	4.2	0.8
	04/28/98	56.0	68.0	3.9	6.8	2.2
	06/24/98	60.0	150.0	0.8	13.0	2.1
	09/22/98	74.0	76.0	3.6	12.0	2.5
	12/29/98	56.0	31.0	1.2	5.1	1.0
	04/13/99	35.0	27.0	0.6	3.1	ND
	06/03/99	80.0	36.0	0.9	4.2	1.2
	09/09/99	10.0	12.0	ND	2.3	ND
	12/29/99	42.0	30.0	0.5	2.6	ND
	04/05/00	41.0	68.0	0.7	4.2	1.2
	06/07/00	69.0	62.0	ND	6.7	ND
	09/06/00	18.0	12.0	0.6	0.5	ND
	12/06/00	16.0	4.0	ND	ND	ND
MW-18 DUP	09/09/99	10.0	13.0	ND	2.5	ND
MW-19	03/05/96	80.6	6.1	2.8	24.9	55.3
	06/04/96	80.5	15.3	2.8	92.9	150.5
	10/09/96	11.1	1.4	3.0	39.5	58.0
	12/30/96	65.7	17.9	3.5	43.0	62.5
	03/19/97	NM	24.6	4.1	164.1	352.2
	06/17/97	NM	8.1	2.4	96.7	160.5
	09/26/97	NM	0.8	1.8	11.7	11.0
	12/23/97	NM	36.9	3.8	244.0	357.4
	04/28/98	98.0	44.0	3.4	190.0	280.8
	06/23/98	130.0	60.0	7.0	280.0	341.9
	09/22/98	46.0	13.0	2.2	31.0	4.0
	12/29/98	37.0	14.0	ND	43.0	23.0
	04/13/99	36.0	0.7	ND	1.7	ND
	06/03/99	45.0	7.6	0.9	35.0	16.2
	09/09/99	1.7	ND	ND	0.6	ND
	12/29/99	170.0	39.0	0.5	110.0	55.0
	04/04/00	ND	ND	ND	1.2	1.7
	06/06/00	200.0	50.0	ND	83.0	24.0
	09/06/00	74.0	1.1	ND	1.8	ND
	12/06/00	110.0	4.4	ND	10.0	6.3
MW-20	03/05/96	133.4	3.6	16.8	3.3	21.8
	06/03/96	106.3	11.4	3.8	0.8	1.4

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	10/09/96	73.3	2.5	11.5	7.5	4.4
	12/31/96	53.3	2.7	14.3	9.5	5.7
	03/18/97	NM	2.3	2.2	4.4	3.2
	06/16/97	NM	1.4	4.4	4.0	4.2
	09/24/97	NM	1.7	4.5	3.8	2.4
	12/22/97	NM	4.5	6.7	9.3	6.8
	04/27/98	83.0	6.8	9.4	18.0	20.1
	06/23/98	91.0	4.8	7.5	7.0	3.6
	09/22/98	60.0	2.6	ND	5.8	ND
	12/28/98	71.0	4.0	ND	1.7	ND
	04/12/99	80.0	7.8	ND	2.4	1.9
	06/02/99	86.0	5.8	4.7	3.7	ND
	09/08/99	20.0	1.1	ND	ND	ND
	12/29/99	95.0	5.7	ND	2.5	ND
	04/04/00	12.0	ND	ND	ND	ND
	06/07/00	120.0	1.7	ND	1.9	1.1
	09/06/00	59.0	2.6	ND	16.0	7.6
	12/08/00	120.0	0.7	ND	ND	ND
DUPLICATE	12/08/00	110.0	0.6	ND	ND	ND
MW-21	03/05/96	82.0	6.0	2.0	29.3	6.1
	06/03/96	82.1	0.4	0.3	1.1	0.9
	10/09/96	46.0	0.7	ND	0.5	0.3
	12/31/96	51.3	ND	ND	0.5	0.2
	03/18/97	NM	0.3	ND	0.4	ND
	06/17/97	NM	ND	ND	0.2	ND
	09/25/97	NM	ND	0.4	0.9	0.4
	12/22/97	NM	1.3	1.5	2.4	0.8
	04/27/98	49.0	2.1	1.4	ND	ND
	06/23/98	80.0	ND	ND	1.8	0.5
	09/21/98	91.0	ND	ND	ND	ND
	12/28/98	81.0	ND	ND	1.1	ND
	04/12/99	92.0	ND	ND	ND	ND
	06/02/99	120.0	2.6	ND	0.6	ND
	09/08/99	100.0	ND	ND	ND	ND
	12/29/99	64.0	ND	ND	ND	ND
	04/04/00	44.0	ND	ND	ND	ND
	06/06/00	37.0	ND	ND	ND	ND
	09/06/00	36.0	ND	ND	ND	ND
	12/08/00	32.0	ND	ND	ND	ND
MW-21 DUP	09/08/99	98.0	ND	ND	ND	ND
	04/04/00	45.0	ND	ND	ND	ND
MW-22	03/05/96	36.7	ND	ND	0.2	0.4
	06/03/96	25.3	ND	ND	ND	0.4

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Well A #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	MW-22	10/09/96	22.9	ND	ND	ND	ND
	MW-22	12/31/96	22.1	ND	ND	ND	ND
	MW-22	03/18/97	NM	ND	ND	ND	ND
	MW-22	06/16/97	NM	ND	ND	ND	ND
	MW-22	09/26/97	NM	ND	ND	ND	ND
	MW-22	12/22/97	NM	ND	ND	ND	ND
	MW-22	04/27/98	18.0	ND	ND	ND	ND
	MW-22	06/23/98	24.0	ND	ND	ND	ND
	MW-22	09/21/98	28.0	ND	ND	ND	ND
	MW-22	12/28/98	28.0	ND	ND	ND	ND
	MW-22	04/12/99	27.0	ND	ND	ND	ND
	MW-22	06/02/99	29.0	ND	ND	ND	ND
	MW-22	09/08/99	24.0	ND	ND	ND	ND
	MW-22	12/29/99	19.0	ND	ND	ND	ND
	MW-22	04/04/00	10.0	ND	ND	ND	ND
	MW-22	06/06/00	4.9	ND	ND	ND	ND
	MW-22	09/06/00	5.3	ND	ND	ND	ND
	MW-22	12/08/00	6.4	ND	ND	ND	ND
MW-23	MW-23	03/05/96	DRY	DRY	DRY	DRY	DRY
	MW-23	06/04/96	NS	NS	NS	NS	NS
	MW-23	10/09/96	NS	NS	NS	NS	NS
	MW-23	12/31/96	NS	NS	NS	NS	NS
	MW-23	03/18/97	NS	NS	NS	NS	NS
	MW-23	06/18/97	NS	NS	NS	NS	NS
	MW-23	09/25/97	NS	NS	NS	NS	NS
	MW-23	12/19/97	NS	NS	NS	NS	NS
	MW-23	04/27/98	NS	NS	NS	NS	NS
	MW-23	06/23/98	NS	NS	NS	NS	NS
	MW-23	09/22/98	NS	NS	NS	NS	NS
	MW-23	12/30/98	NS	NS	NS	NS	NS
	MW-23	06/02/99	NS	NS	NS	NS	NS
	MW-23	06/08/99	NS	NS	NS	NS	NS
	MW-23	05/14/00	NS	NS	NS	NS	NS
	MW-23	12/07/00	NS	NS	NS	NS	NS
MW-24	MW-24	10/09/96	25.6	231.7	144.1	122.5	988.8
	MW-24	12/31/96	NS	NS	NS	NS	NS
	MW-24	03/18/97	NS	NS	NS	NS	NS
	MW-24	06/18/97	NS	NS	NS	NS	NS
	MW-24	09/25/97	NS	NS	NS	NS	NS
	MW-24	12/19/97	NS	NS	NS	NS	NS
	MW-24	04/27/98	NS	NS	NS	NS	NS
	MW-24	06/25/98	84.0	640.0	65.0	130.0	820.0
	MW-24	09/22/98	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	12/30/98	NS	NS	NS	NS	NS
	04/12/99	NS	NS	NS	NS	NS
	06/02/99	NS	NS	NS	NS	NS
	09/09/99	NS	NS	NS	NS	NS
	04/04/00	NS	NS	NS	NS	NS
	12/07/00	NS	NS	NS	NS	NS
MW-25	03/05/96	DRY	DRY	DRY	DRY	DRY
	06/04/96	NS	NS	NS	NS	NS
	10/09/96	1.0	39.9	11.3	7.4	14.3
	12/31/96	NS	NS	NS	NS	NS
	03/18/97	NS	NS	NS	NS	NS
	06/18/97	NS	NS	NS	NS	NS
	09/25/97	NS	NS	NS	NS	NS
	12/19/97	NS	NS	NS	NS	NS
	06/25/98	3.2	32.0	58.0	8.5	91.0
	09/22/98	NS	NS	NS	NS	NS
	12/30/98	NS	NS	NS	NS	NS
	04/12/99	NS	NS	NS	NS	NS
	06/02/99	NS	NS	NS	NS	NS
	04/04/00	NS	NS	NS	NS	NS
	12/07/00	NS	NS	NS	NS	NS
MW-29	09/24/98	NS	NS	NS	NS	NS
	12/31/98	NS	NS	NS	NS	NS
	04/14/99	NS	NS	NS	NS	NS
	06/02/99	NS	NS	NS	NS	NS
	12/07/00	NS	NS	NS	NS	NS
POND	04/13/99	5.0	ND	ND	0.6	ND
	06/02/99	4.6	ND	ND	ND	ND
	09/09/99	ND	ND	ND	ND	ND
	12/28/99	5.7	2.1	2.5	3.5	12.1
	12/07/00	NS	NS	NS	NS	NS
RW-26	06/03/99	520.0	2500.0	470.0	190.0	1350.0
RW-26	12/07/00	NS	NS	NS	NS	NS
T-17-3	06/25/98	670.0	3300.0	150.0	220.0	510.0
	09/22/98	NS	NS	NS	NS	NS
	12/30/98	NS	NS	NS	NS	NS
	04/12/99	NS	NS	NS	NS	NS
	06/02/99	NS	NS	NS	NS	NS
	12/07/00	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF MTBE AND BTEX LABORATORY ANALYSIS
THRIFTWAY REFINERY, BLOOMFIELD, NEW MEXICO
(concentrations in ug/L)

Well #	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes

NM SIGNIFIES NOT MEASURED
NS SIGNIFIES NOT SAMPLED

**TABLE 2-A
THRIFTWAY REFINERY
SUMMARY OF GROUNDWATER BENZENE & MTBE**

	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
Influent (refinery)	5.30.01	200	940	79	290	920
	7.31.01	250	1600	210	520	1610
	11.01.01	270	1200	430	430	1290
	12.4.01		520	240	430	1130
	1.31.02	200	520	120	360	850
	2.28.02	150	890	90	370	1030
Effluent(refinery)	5.30.01	5.6	<0.50	<0.50	<0.50	<1.50
	7.31.01	<1.00	0.9	<0.50	<0.50	1.1
	11.01.01	21	4.7	10	3.9	18.5
	12.04.01		<0.50	<0.50	0.6	<1.50
	1.31.02	2.3	0.8	5.1	1.8	8.5
MW-01	2.4.02	Product				
MW-05	1.30.02	43	5.1	<0.50	<0.50	<1.50
MW-06	1.30.02	2.5	<0.50	<0.50	<0.50	<1.50
MW-08	1.30.02	<1.00	<0.05	<0.50	<0.50	<1.50
MW-09	1.30.02	26	5.5	1.6	1.7	<1.50
MW-11	1.30.02	<1.00	<0.50	<0.50	<0.50	<1.50
MW-12	1.30.02	110	28	1.8	54	104.6
MW-13	1.30.02	<1.00	<0.50	<0.50	<0.50	<1.50
MW-15	1.30.02	<1.00	<0.50	<0.50	<0.50	<1.50
MW-18	1.30.02	18	1	<0.50	<0.50	<1.50
MW-19	1.30.02	530	0.6	0.9	0.8	<1.50
MW-20	1.30.02	670	1.6	3.7	6.3	1.2
MW-21	1.30.02	44	<0.50	<0.50	<0.50	<1.50
MW-22	1.30.02	12	<0.50	<0.50	<0.50	<1.50

APPENDIX A
NMOCD Letter (September 2001)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

September 26, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5357 7591

Ms. Terry Griffin
Thriftway Marketing Corporation
710 East 20th Street
Farmington, NM, 87401

Re: Discharge Plan GW-055 Renewal
Thriftway Marketing Corporation-Formal Bloomfield Refinery

Dear Ms. Griffin:

The New Mexico Oil Conservation Division (OCD) conducted a discharge plan inspection on June 29, 2001 for the above captioned facility. Per your request, the results of the inspection is enclosed and OCD requires Thriftway Marketing Corporation to address the following issues before discharge plan renewal:

1. Below-grade sumps were noted to contain oily waste (see pictures #3,4 and #10).
2. The old land farm located on the north side of the property (see pictures #5).
3. The on-site producing well water tank was full and requires emptying (see pictures #6 and #7). *DAVID H. ARRINGTON*
4. Tank # 184 was leaking (see pictures 12 and 13) and valve seals on tank #14 were leaking. Tank #19 was noted to have oily trash around it.
5. Please demonstrate the integrity of the wastewater ponds. (See picture #9).

OCD may require additional actions to be taken along with additional operating conditions in the discharge plan. Also, Thriftway Marketing Corporation is hereby required to submit a completed discharge plan for OCD review by November 26, 2001.

If you have any questions please do not hesitate to contact me at 505-476-3487.

Sincerely,

Wayne Price-Pet. Engr. Spec.
cc: OCD Aztec Office

Attachments-1

APPENDIX B
Air stripper/influent/effluent Laboratory Analyses
QA/QC Data and COC records

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

March 07, 2002

Terry Griffin
BioTech Remediation, Inc.
510 Airport Drive, Suite 104
Farmington, NM 87401
TEL: (505) 327-4965
FAX: (505) 564-3604

RE: Thriftway Refinery Air Stripper

Order No.: 0202036

Dear Terry Griffin,

On Site Technologies, LTD. received 2 samples on 02/28/2002 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Heidi Reese
Heidi Reese

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY SERVING THE INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: BioTech Remediation, Inc.
Project: Thriftway Refinery Air Stripper
Lab Order: 0202036

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 07-Mar-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Refinery Air Stripper
Work Order:	0202036	Client Sample ID:	Influent
Lab ID:	0202036-01A	Matrix:	AQUEOUS
Project:	Thriftway Refinery Air Stripper	Collection Date:	02/28/2002 7:40:00 AM
		COC Record:	11712

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DDM		
Methyl tert-Butyl Ether	150	10		µg/L	10	03/01/2002
Benzene	890	5		µg/L	10	03/01/2002
Toluene	90	5		µg/L	10	03/01/2002
Ethylbenzene	370	5		µg/L	10	03/01/2002
m,p-Xylene	910	10		µg/L	10	03/01/2002
o-Xylene	120	5		µg/L	10	03/01/2002

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGIES SERVING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 07-Mar-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Refinery Air Stripper
Work Order:	0202036	Client Sample ID:	Effluent
Lab ID:	0202036-02A	Matrix:	AQUEOUS
Project:	Thriftway Refinery Air Stripper	Collection Date:	02/28/2002 7:51:00 AM
		COC Record:	11712

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DDM		
Methyl tert-Butyl Ether	6.1	1		µg/L	1	03/01/2002
Benzene	0.5	0.5		µg/L	1	03/01/2002
Toluene	0.6	0.5		µg/L	1	03/01/2002
Ethylbenzene	0.8	0.5		µg/L	1	03/01/2002
m,p-Xylene	1.8	1		µg/L	1	03/01/2002
o-Xylene	ND	0.5		µg/L	1	03/01/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY SERVING THE INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202036

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020301	Batch ID: GC-1_020301	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/01/2002		Prep Date:					
Client ID:	0202036	Run ID: GC-1_020301A		SeqNo: 48217							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.092	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0755	0.5									
1,4-Difluorobenzene	106.2	0									J
4-Bromochlorobenzene	118.7	0									
Fluorobenzene	107	0									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202036

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Sample Matrix Spike

Prep Date:

Analysis Date: 03/01/2002

Units: µg/L

Test Code: SW8021B

Batch ID: GC-1_020301

Sample ID: 0202036-01AMS

SeqNo: 48218

Run ID: GC-1_020301A

0202036

Client ID: Influent

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1256	5	400	893	90.8%	70	130				
Ethylbenzene	740.5	5	400	371	92.4%	70	130				
m,p-Xylene	1667	10	800	909.8	94.7%	70	130				
Methyl tert-Butyl Ether	566.4	10	400	153	103.3%	70	130				
o-Xylene	491.6	5	400	117.2	93.6%	70	130				
Toluene	449	5	400	89.86	89.8%	70	130				
1,4-Difluorobenzene	1044	0	1100	0	95.0%	70	130				
4-Bromochlorobenzene	1162	0	1100	0	105.7%	70	130				
Fluorobenzene	1054	0	1100	0	95.9%	70	130				

Prep Date:

Analysis Date: 03/01/2002

Units: µg/L

Test Code: SW8021B

Batch ID: GC-1_020301

Sample ID: 0202036-01AMSD

SeqNo: 48219

Run ID: GC-1_020301A

0202036

Client ID: Influent

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1241	5	400	893	87.1%	70	130	1256	1.2%	15	
Ethylbenzene	732.2	5	400	371	90.3%	70	130	740.5	1.1%	15	
m,p-Xylene	1650	10	800	909.8	92.5%	70	130	1667	1.1%	15	
Methyl tert-Butyl Ether	587	10	400	153	108.5%	70	130	566.4	3.6%	15	
o-Xylene	487.7	5	400	117.2	92.6%	70	130	491.6	0.8%	15	
Toluene	452.3	5	400	89.86	90.6%	70	130	449	0.7%	15	
1,4-Difluorobenzene	1050	0	1100	0	95.4%	70	130	0	0.0%	0	
4-Bromochlorobenzene	1165	0	1100	0	105.9%	70	130	0	0.0%	0	
Fluorobenzene	1057	0	1100	0	96.1%	70	130	0	0.0%	0	

Qualifiers:

NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202036

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002			Prep Date:	
Client ID:		0202036		Run ID: GC-1_020301A				SeqNo: 48216				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	36.94	0.5	40	0	92.4%	80	120					
Ethylbenzene	38.42	0.5	40	0.092	95.8%	80	120					
m,p-Xylene	76.65	1	80	0	95.8%	80	120					
Methyl tert-Butyl Ether	38.68	1	40	0	96.7%	80	120					
o-Xylene	37.73	0.5	40	0	94.3%	80	120					
Toluene	36.66	0.5	40	0.0755	91.5%	80	120					
1,4-Difluorobenzene	105.6	0	110	0	96.0%	70	130					
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130					
Fluorobenzene	106.4	0	110	0	96.7%	70	130					

Qualifiers:

NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202036

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002			Prep Date:	
Client ID:		0202036		Run ID:		GC-1_020301A		SeqNo: 48213				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	18.72	0.5	20	0	93.6%	85	115					
Ethylbenzene	19.44	0.5	20	0	97.2%	85	115					
m,p-Xylene	38.99	1	40	0	97.5%	85	115					
Methyl tert-Butyl Ether	19.24	1	20	0	96.2%	85	115					
o-Xylene	18.92	0.5	20	0	94.6%	85	115					
Toluene	18.51	0.5	20	0	92.5%	85	115					
1,4-Difluorobenzene	105.4	0	110	0	95.9%	70	130					
4-Bromochlorobenzene	119.3	0	110	0	108.5%	70	130					
Fluorobenzene	106.8	0	110	0	97.1%	70	130					

Sample ID: CCV2_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002		Prep Date:	
Client ID:		0202036		Run ID:		GC-1_020301A		SeqNo: 48214			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.47	0.5	20	0	92.4%	85	115				
Ethylbenzene	19.16	0.5	20	0	95.8%	85	115				
m,p-Xylene	38.48	1	40	0	96.2%	85	115				
Methyl tert-Butyl Ether	19.5	1	20	0	97.5%	85	115				
o-Xylene	18.86	0.5	20	0	94.3%	85	115				
Toluene	18.38	0.5	20	0	91.9%	85	115				
1,4-Difluorobenzene	106.2	0	110	0	96.6%	70	130				
4-Bromochlorobenzene	118.5	0	110	0	107.7%	70	130				
Fluorobenzene	107	0	110	0	97.2%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Project: Thriftway Refinery Air Stripper

BioTech Remediation, Inc.

0202036

Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002				Prep Date:	
Client ID:		0202036		Run ID: GC-1_020301A				SeqNo: 48215					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene		36.97	0.5	40	0	92.4%	85	115					
Ethylbenzene		38.2	0.5	40	0	95.5%	85	115					
m,p-Xylene		76.2	1	80	0	95.3%	85	115					
Methyl tert-Butyl Ether		38.09	1	40	0	95.2%	85	115					
o-Xylene		37.67	0.5	40	0	94.2%	85	115					
Toluene		36.71	0.5	40	0	91.8%	85	115					
1,4-Difluorobenzene		104.9	0	110	0	95.4%	70	130					
4-Bromochlorobenzene		116.8	0	110	0	106.2%	70	130					
Fluorobenzene		106.3	0	110	0	96.6%	70	130					

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
 Work Order: 0202036
 Project: Thriftway Refinery Air Stripper
 Test No: SW8021B

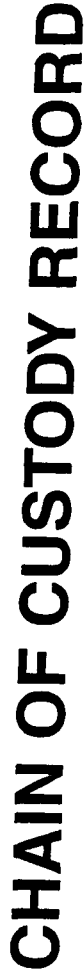
QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0202029-15A	98.7	107	107					
0202029-16A	97	108	98.3					
0202029-19A	97.1	104	98.9					
0202029-20A	97.4	112	95.6					
0202029-21A	94.4	105	95.7					
0202029-23A	95	105	95.5					
0202029-25A	98.7	104	99.7					
0202029-26A	96.4	105	99.2					
0202029-28A	95.7	105	97.2					
0202029-31A	98	107	98.9					
0202029-32A	96.5	108	98					
0202029-33A	97	105	98.6					
0202029-34A	96.6	108	98.3					
0202031-01A	97.7	106	98.3					
0202031-02A	94.9	102	96.1					
0202031-03A	95.4	104	96					
0202032-01A	96.1	105	96.7					
0202036-01A	95.5	105	95.9					
0202036-01AMS	95	106	95.8					
0202036-01AMSD	95.4	106	96.1					
0202036-02A	96.6	106	97.5					
CCV1_020301	95.8	108	97					
CCV2_020301	96.6	108	97.2					
CCV3_020301	95.4	106	96.6					
LCS_020301	96	109	96.7					
MB_020301	96.6	108	97.3					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits



11712

Date: 7-3-03

Page: 1 of 1

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LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.:		Project No. 840		Name		Title	
SEND INVOICE TO		Company ENTERPRISE CORPORATION		Company			
Address 501 ALBERTA DRIVE SUITE 104		Dept.		Mailing Address			
City, State, Zip HOUSTON, TX 77002				City, State, Zip			
PROJECT LOCATION:				Telephone No.		Telefax No.	
ANALYSIS REQUESTED 				RESULTS TO 			
SAMPLER'S SIGNATURE: 				Number of Containers 			
SAMPLE IDENTIFICATION 				LAB ID 			
Relinquished by: Tom B...				Received by: Heaven...			
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Method of Shipment:				Received by:			
Authorized by:				Special Instructions / Remarks:			

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Influent
Lab ID:	0202003-16A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:19:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	200	10		µg/L	10	02/11/2002
Benzene	520	5		µg/L	10	02/11/2002
Toluene	120	5		µg/L	10	02/11/2002
Ethylbenzene	360	5		µg/L	10	02/11/2002
m,p-Xylene	740	10		µg/L	10	02/11/2002
o-Xylene	110	5		µg/L	10	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.039	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	204	15		mg/L	250	02/14/2002
Sulfate	1520	20		mg/L	250	02/14/2002
Bromide	0.36	0.04		mg/L	1	02/17/2002
Fluoride	0.51	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	357	0.1		mg/L	10	02/12/2002
Magnesium 285.213	56	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.4	0.62		mg/L	10	02/12/2002
Sodium 589.592	880	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	910	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	910	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Influent
Lab ID:	0202003-16A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:19:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	4710		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1120		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.12		2	pH units	1	02/04/2002
Temperature	23		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3610		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3570		5	mg/L	1	02/23/2002

Qualifiers:

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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Effluent
Lab ID:	0202003-17A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:25:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DDM
Methyl tert-Butyl Ether	2.3	1		µg/L	1	02/11/2002
Benzene	0.8	0.5		µg/L	1	02/11/2002
Toluene	5.1	0.5		µg/L	1	02/11/2002
Ethylbenzene	1.8	0.5		µg/L	1	02/11/2002
m,p-Xylene	6.8	1		µg/L	1	02/11/2002
o-Xylene	1.7	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
		SW6010B				Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	0.034	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.039	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
		SW7470				Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HNR
Chloride	881	15		mg/L	250	02/14/2002
Sulfate	1490	20		mg/L	250	02/14/2002
Bromide	0.33	0.04		mg/L	1	02/17/2002
Fluoride	0.53	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
		SW6010B				Analyst: DJC
Calcium 317.933	350	0.1		mg/L	10	02/12/2002
Magnesium 285.213	55.1	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.46	0.62		mg/L	10	02/12/2002
Sodium 589.592	866	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
		M2320 B				Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Effluent
Lab ID:	0202003-17A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:25:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5960		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1100		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	3.01		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3890		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3650		5	mg/L	1	02/23/2002

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

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December 13, 2001

Terry Griffin
BioTech Remediation, Inc.
710 E. 20th, Suite 400
Farmington, NM 87401
TEL: (505) 327-4965
FAX (505) 564-3604

RE: Thiftway Refinery Air Stripper

Order No.: 0112006

Dear Terry Griffin,

On Site Technologies, LTD. received 2 samples on 12/4/2001 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to be "David Cox", written in a cursive style.

David Cox

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On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: BioTech Remediation, Inc.
Project: Thiftway Refinery Air Stripper
Lab Order: 0112006

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

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ANALYTICAL REPORT

Date: 13-Dec-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thiftway Refinery Air Stripper
Work Order:	0112006	Client Sample ID:	Stripper Influent
Lab ID:	0112006-01A	Matrix:	AQUEOUS
Project:	Thiftway Refinery Air Stripper	Collection Date:	12/4/2001 10:20:00 AM
		COC Record:	11334

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DDM		
Benzene	520	10		µg/L	20	12/5/2001
Toluene	240	10		µg/L	20	12/5/2001
Ethylbenzene	430	10		µg/L	20	12/5/2001
m,p-Xylene	970	20		µg/L	20	12/5/2001
o-Xylene	160	10		µg/L	20	12/5/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 2

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LAB: (505) 325-1556
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ANALYTICAL REPORT

Date: 13-Dec-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thiftway Refinery Air Stripper
Work Order:	0112006	Client Sample ID:	Stripper Effluent
Lab ID:	0112006-02A	Matrix:	AQUEOUS
Project:	Thiftway Refinery Air Stripper	Collection Date:	12/4/2001 10:25:00 AM
		COC Record:	11334

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DDM		
Benzene	ND	0.5		µg/L	1	12/5/2001
Toluene	ND	0.5		µg/L	1	12/5/2001
Ethylbenzene	0.6	0.5		µg/L	1	12/5/2001
m,p-Xylene	ND	1		µg/L	1	12/5/2001
o-Xylene	ND	0.5		µg/L	1	12/5/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: BioTech Remediation, Inc.
 Work Order: 0112006
 Project: Thiftway Refinery Air Stripper

QC SUMMARY REPORT

Method Blank

Sample ID: MB_011205	Batch ID: GC-1_011205	Test Code: SW8021B	Units: µg/L	Analysis Date: 12/5/2001	Prep Date: 12/5/01
Client ID:	0112006	Run ID: GC-1_011205A		SeqNo: 45677	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	ND	0.5			
1,4-Difluorobenzene	103.3	0			
4-Bromochlorobenzene	110.9	0			
Fluorobenzene	104.6	0			

Qualifiers: NID - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 1 of 1

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: BioTech Remediation, Inc.

QC SUMMARY REPORT

Work Order: 0112006

Sample Matrix Spike

Project: Thifway Refinery Air Stripper

Sample ID: 0111041-18AMS		Batch ID: GC-1_011205	Test Code: SW8021B	Units: µg/L	Analysis Date 12/5/2001	Prep Date: 12/5/01
Client ID:		0112006	Run ID: GC-1_011205A		SeqNo: 45678	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val
Benzene	471.4	5	400	108	90.8%	78 117
Ethylbenzene	1443	5	400	1079	90.9%	79 121
m,p-Xylene	772.5	10	800	10.85	95.2%	80 115
Methyl tert-Butyl Ether	471.6	10	400	52.08	104.9%	84 114
o-Xylene	392.8	5	400	1.982	97.7%	88 116
Toluene	375	5	400	14.49	90.1%	88 113
1,4-Difluorobenzene	1027	0	1100	0	93.4%	77 112
4-Bromochlorobenzene	1175	0	1100	0	106.8%	88 116
Fluorobenzene	1036	0	1100	0	94.2%	87 102

Sample ID: 0111041-18AMS		Batch ID: GC-1_011205	Test Code: SW8021B	Units: µg/L	Analysis Date 12/5/2001	Prep Date: 12/5/01
Client ID:		0112006	Run ID: GC-1_011205A		SeqNo: 45679	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val
Benzene	462	5	400	108	88.5%	78 117 471.4 2.0% 6
Ethylbenzene	1400	5	400	1079	80.3%	79 121 1443 3.0% 7
m,p-Xylene	751.6	10	800	10.85	92.6%	80 115 772.5 2.7% 6
Methyl tert-Butyl Ether	471.6	10	400	52.08	104.9%	84 114 471.6 0.0% 5
o-Xylene	384	5	400	1.982	95.5%	88 116 392.8 2.3% 5
Toluene	364	5	400	14.49	87.4%	88 113 375 3.0% 6
1,4-Difluorobenzene	1033	0	1100	0	94.0%	77 112 0 0.0% 0
4-Bromochlorobenzene	1121	0	1100	0	101.9%	88 116 0 0.0% 0
Fluorobenzene	1039	0	1100	0	94.4%	87 102 0 0.0% 0

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: BioTech Remediation, Inc.
 Work Order: 0112006
 Project: Thiftway Refinery Air Stripper

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112006		Run ID: GC-1_011205A				SeqNo: 45676			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.77	0.5	40	0	91.9%	80	120				
Ethylbenzene	37.15	0.5	40	0	92.9%	80	120				
m,p-Xylene	76.82	1	80	0	96.0%	80	120				
Methyl tert-Butyl Ether	39.15	1	40	0	97.9%	80	120				
o-Xylene	38.57	0.5	40	0	96.4%	80	120				
Toluene	36.74	0.5	40	0	91.9%	80	120				
1,4-Difluorobenzene	102.6	0	110	0	93.2%	77	112				
4-Bromochlorobenzene	115.1	0	110	0	104.6%	88	116				
Fluorobenzene	104	0	110	0	94.5%	87	102				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: BioTech Remediation, Inc.
Work Order: 0112006
Project: Thiftway Refinery Air Stripper

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112006		Run ID:		GC-1_011205A		SeqNo: 45672			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.29	0.5	20	0	91.4%	85	115				
Ethylbenzene	18.2	0.5	20	0	91.0%	85	115				
m,p-Xylene	37.46	1	40	0	93.6%	85	115				
Methyl tert-Butyl Ether	20.57	1	20	0	102.9%	85	115				
o-Xylene	19.34	0.5	20	0	96.7%	85	115				
Toluene	18.22	0.5	20	0	91.1%	85	115				
1,4-Difluorobenzene	101.3	0	110	0	92.1%	77	112				
4-Bromochlorobenzene	113	0	110	0	102.7%	88	116				
Fluorobenzene	104	0	110	0	94.6%	87	102				

Sample ID: CCV2_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01		
Client ID:		0112006		Run ID:		GC-1_011205A		SeqNo: 45673				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		17.78	0.5	20	0	88.9%	85	115				
Ethylbenzene		17.61	0.5	20	0	88.0%	85	115				
m,p-Xylene		36.38	1	40	0	90.9%	85	115				
Methyl tert-Butyl Ether		19.78	1	20	0	98.9%	85	115				
o-Xylene		18.89	0.5	20	0	94.5%	85	115				
Toluene		17.57	0.5	20	0	87.8%	85	115				
1,4-Difluorobenzene		103.2	0	110	0	93.9%	77	112				
4-Bromochlorobenzene		113.2	0	110	0	102.9%	88	116				
Fluorobenzene		104.5	0	110	0	95.0%	87	102				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I of 2

CLIENT: BioTech Remediation, Inc.

Work Order: 0112006

Project: Thifway Refinery Air Stripper

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_011205 Batch ID: GC-1_011205 Test Code: SW8021B Units: µg/L Analysis Date 12/5/2001 Prep Date: 12/5/01

Client ID: 0112006 Run ID: GC-1_011205A SeqNo: 45674

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.24	0.5	40	0	90.6%	85	115				
Ethylbenzene	35.87	0.5	40	0	89.7%	85	115				
m,p-Xylene	74.89	1	80	0	93.6%	85	115				
Methyl tert-Butyl Ether	39.42	1	40	0	98.6%	85	115				
o-Xylene	37.59	0.5	40	0	94.0%	85	115				
Toluene	35.71	0.5	40	0	89.3%	85	115				
1,4-Difluorobenzene	101.7	0	110	0	92.5%	77	112				
4-Bromochlorobenzene	111.4	0	110	0	101.3%	88	116				
Fluorobenzene	104	0	110	0	94.6%	87	102				

Sample ID: CCV4_011205 Batch ID: GC-1_011205 Test Code: SW8021B Units: µg/L Analysis Date 12/5/2001 Prep Date: 12/5/01

Client ID: 0112006 Run ID: GC-1_011205A SeqNo: 45675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.63	0.5	40	0	94.1%	85	115				
Ethylbenzene	37.36	0.5	40	0	93.4%	85	115				
m,p-Xylene	77.55	1	80	0	96.9%	85	115				
Methyl tert-Butyl Ether	41.1	1	40	0	102.7%	85	115				
o-Xylene	38.75	0.5	40	0	96.9%	85	115				
Toluene	37.44	0.5	40	0	93.6%	85	115				
1,4-Difluorobenzene	103	0	110	0	93.6%	77	112				
4-Bromochlorobenzene	111.7	0	110	0	101.5%	88	116				
Fluorobenzene	104.6	0	110	0	95.1%	87	102				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
Work Order: 0112006
Project: Thiftway Refinery Air Stripper
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0111041-15A	98.4	103	100
0111041-18A	95.3	116	96.1
0111041-18AMS	93.4	107	94.2
0111041-18AMSD	94	102	94.4
0111041-22A	96.6	111	99.6
0111041-23A	97.7	111	97.7
0111041-24A	90.3	111	90.3
0111041-25A	92.9	101	95.3
0111041-28A	91.6	104	94
0111041-29A	96.7	106	96.5
0111041-30A	95.8	108	98.4
0111041-31A	92	113	97
0112002-01A	92.4	102	94.5
0112006-01A	93.2	103	94.2
0112006-02A	94.2	102	95.8
CCV1_011205	92.1	103	94.6
CCV2_011205	93.8	103	95
CCV3_011205	92.5	101	94.6
CCV4_011205	93.6	102	95.1
LCS_011205	93.2	105	94.5
MB_011205	93.9	101	95.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits

CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87489
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date:

10-4-01

Page:

of

[illegible]

OFF: (505) 325-5667
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LAB: (505) 325-1556
FAX: (505) 327-1496

November 12, 2001

Terry Griffin
BioTech Remediation, Inc.
710 E. 20th, Suite 400
Farmington, NM 87401
TEL: (505) 327-4965
FAX (505) 564-3604

RE: Thriftway Refinery Air Stripper

Order No.: 0111001

Dear Terry Griffin,

On Site Technologies, LTD. received 2 samples on 11/01/2001 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to be 'DC' or 'D Cox', written over a horizontal line.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 12-Nov-01

CLIENT: BioTech Remediation, Inc.
Project: Thriftway Refinery Air Stripper
Lab Order: 0111001

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

OFF: (505) 325-5667
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ANALYTICAL REPORT

Date: 12-Nov-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery Air Stripper
Work Order:	0111001	Client Sample ID:	Stripper Influent
Lab ID:	0111001-01A	Matrix:	AQUEOUS
Project:	Thriftway Refinery Air Stripper	Collection Date:	11/01/2001 1:03:00 PM
		COC Record:	11623

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Methyl tert-Butyl Ether	270	20		µg/L	20	11/04/2001
Benzene	1200	10		µg/L	20	11/04/2001
Toluene	430	10		µg/L	20	11/04/2001
Ethylbenzene	430	10		µg/L	20	11/04/2001
m,p-Xylene	1100	20		µg/L	20	11/04/2001
o-Xylene	190	10		µg/L	20	11/04/2001

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 12-Nov-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery Air Stripper
Work Order:	0111001	Client Sample ID:	Stripper Effluent
Lab ID:	0111001-02A	Matrix:	AQUEOUS
Project:	Thriftway Refinery Air Stripper	Collection Date:	11/01/2001 1:10:00 PM
		COC Record:	11623

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Methyl tert-Butyl Ether	21	1		µg/L	1	11/04/2001
Benzene	4.7	0.5		µg/L	1	11/04/2001
Toluene	10	0.5		µg/L	1	11/04/2001
Ethylbenzene	3.9	0.5		µg/L	1	11/04/2001
m,p-Xylene	15	1		µg/L	1	11/04/2001
o-Xylene	3.5	0.5		µg/L	1	11/04/2001

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 12-Nov-01

CLIENT: BioTech Remediation, Inc.

Work Order: 0111001

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Method Blank

Sample ID: MB_011104	Batch ID: GC-1_011104	Test Code: SW8021B	Units: µg/L	Analysis Date 11/04/2001	Prep Date:
Client ID:	0111001	Run ID:	GC-1_011104B	SeqNo: 44955	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	.1518	0.5			J
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.4809	0.5			J
Toluene	.3892	0.5			J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: BioTech Remediation, Inc.

Work Order: 0111001

Project: Thriftway Refinery Air Stripper

Date: 12-Nov-01

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0111001-01AMS		Batch ID: GC-1_011104	Test Code: SW8021B	Units: µg/L	Analysis Date 11/04/2001		Prep Date:				
Client ID: Stripper Influent		Run ID: 0111001	GC-1_011104B		SeqNo: 44956						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1941	10	800	1200	92.6%	78	117				
Ethylbenzene	1187	10	800	430	94.6%	79	121				
m,p-Xylene	2630	20	1600	1100	95.7%	80	115				
Methyl tert-Butyl Ether	1012	20	800	270	92.8%	84	114				
o-Xylene	901.1	10	800	190	88.9%	88	116				
Toluene	1237	10	800	430	100.9%	88	113				

Sample ID: 0111001-01AMSD		Batch ID: GC-1_011104	Test Code: SW8021B	Units: µg/L	Analysis Date 11/04/2001		Prep Date:				
Client ID: Stripper Influent		Run ID: 0111001	GC-1_011104B		SeqNo: 44957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2032	10	800	1200	104.1%	78	117	1941	4.6%	6	
Ethylbenzene	1254	10	800	430	103.1%	79	121	1187	5.5%	7	
m,p-Xylene	2778	20	1600	1100	104.9%	80	115	2630	5.5%	6	
Methyl tert-Butyl Ether	1032	20	800	270	95.2%	84	114	1012	1.9%	5	
o-Xylene	967.2	10	800	190	97.1%	88	116	901.1	7.1%	5	R
Toluene	1262	10	800	430	104.0%	88	113	1237	2.0%	6	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 12-Nov-01

CLIENT: BioTech Remediation, Inc.

Work Order: 0111001

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_011104	Batch ID: GC-1_011104	Test Code: SW8021B	Units: µg/L	Analysis Date 11/04/2001		Prep Date:					
Client ID:	0111001	Run ID: GC-1_011104B		SeqNo: 44954							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.21	0.5	40	0	100.5%	92	113				
Ethylbenzene	40.1	0.5	40	0.1518	99.9%	94	114				
m,p-Xylene	82.48	1	80	0	103.1%	92	111				
Methyl tert-Butyl Ether	40.02	1	40	0	100.1%	91	112				
o-Xylene	40.69	0.5	40	0.4809	100.5%	97	112				
Toluene	40.48	0.5	40	0.3892	100.2%	95	111				

Qualifiers:

NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 12-Nov-01

CLIENT: BioTech Remediation, Inc.

Work Order: 0111001

Project: Thriftway Refinery Air Stripper

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_011104	Batch ID: GC-1_011104	Test Code: SW8021B	Units: µg/L	Analysis Date 11/04/2001	Prep Date:						
Client ID:	0111001	Run ID: GC-1_011104B		SeqNo: 44952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.23	0.5	20	0	106.2%	85	115				
Ethylbenzene	21.28	0.5	20	0	106.4%	85	115				
m,p-Xylene	43.84	1	40	0	109.6%	85	115				
Methyl tert-Butyl Ether	19.13	1	20	0	95.6%	85	115				
o-Xylene	20.95	0.5	20	0	104.8%	85	115				
Toluene	21.79	0.5	20	0	109.0%	85	115				
1,4-Difluorobenzene	107.8	0	110	0	98.0%	77	112				
4-Bromochlorobenzene	115.6	0	110	0	105.1%	88	116				
Fluorobenzene	107.5	0	110	0	97.7%	87	102				

Sample ID: CCV2_011104		Batch ID: GC-1_011104		Test Code: SW8021B		Units: µg/L		Analysis Date 11/04/2001		Prep Date:	
Client ID:		0111001		Run ID:		GC-1_011104B		SeqNo: 44953			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.18	0.5	40	0	100.5%	85	115				
Ethylbenzene	40.45	0.5	40	0	101.1%	85	115				
m,p-Xylene	82.78	1	80	0	103.5%	85	115				
Methyl tert-Butyl Ether	37.71	1	40	0	94.3%	85	115				
o-Xylene	40.28	0.5	40	0	100.7%	85	115				
Toluene	41.12	0.5	40	0	102.8%	85	115				
1,4-Difluorobenzene	106.1	0	110	0	96.4%	77	112				
4-Bromochlorobenzene	116.9	0	110	0	106.3%	88	116				
Fluorobenzene	106	0	110	0	96.4%	87	102				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
Work Order: 0111001
Project: Thriftway Refinery Air Stripper
Test No: SW8021B

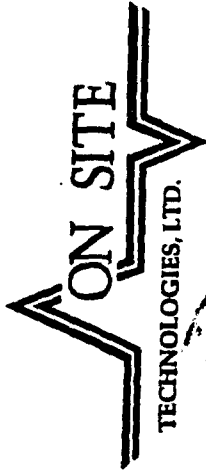
QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ				
0111001-01A	94.3	105	95.4				
0111001-01AMS	97.5	115	94.1				
0111001-01AMSD	95.2	105	95.7				
0111001-02A	97.2	111	100				
0111003-01A	98.6	107	98.2				
CCV1_011104	98	105	97.7				
CCV2_011104	96.4	106	96.4				
LCS_011104	97.1	106	97.8				
MB_011104	95.5	102	96.5				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

11623

612 E. Murray Dr., P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: 11-1-01

Page: 1 of 1

Purchase Order No.:		Project No. 810	
Name Terry Griffin		Title	
Company PATEL CHEMICALS INC		Company	
Address 710 E. 20th Suite 400		Mailing Address	
City, State, Zip Farmington, NM. 87401		City, State, Zip	
PROJECT LOCATION:		Telephone No.	
Theifway Refinery, Bloomfield, NM.		Telefax No.	
SAMPLER'S SIGNATURE: <i>[Signature]</i>		ANALYSIS REQUESTED	
SAMPLE IDENTIFICATION		LAB ID	
DATE	TIME	MATRIX	PRES.
11-1-01	1303	H2O	H2L
"	1310	"	"
AIR STEPPER INFLUENT		2	
AIR STEPPER EFFLUENT		2	
REPORT RESULTS TO		Number of Containers	
Name		Name	
Company		Company	
Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Date/Time: 11-1-01 140		Date/Time: 11/1/01 141	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Method of Shipment:		Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date	
Authorized by:		Special Instructions / Remarks:	
Date		Date	
(Client Signature Must Accompany Request)			

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 11-Jun-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0105003	Client Sample ID:	Air Stripper Effluent
Lab ID:	0105003-13A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	05/03/2001 12:49:00 PM
		COC Record:	11171-11172

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: HR
Methyl tert-Butyl Ether	5.6	1		µg/L	1	05/10/2001
Benzene	ND	0.5		µg/L	1	05/10/2001
Toluene	ND	0.5		µg/L	1	05/10/2001
Ethylbenzene	ND	0.5		µg/L	1	05/10/2001
m,p-Xylene	ND	1		µg/L	1	05/10/2001
o-Xylene	ND	0.5		µg/L	1	05/10/2001
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HR
Bromide	0.35	0.2		mg/L	5	05/15/2001
Chloride	840	59		mg/L	990	05/15/2001
Fluoride	0.6	0.25		mg/L	5	05/15/2001
Sulfate	1400	79		mg/L	990	05/15/2001
CALCIUM, DISSOLVED						
		E215.1				Analyst: HR
Calcium	310	50		mg/L	200	05/20/2001
IRON, DISSOLVED						
		E236.1				Analyst: HR
Iron	ND	0.1		mg/L	1	05/20/2001
POTASSIUM, DISSOLVED						
		E258.1				Analyst: HR
Potassium	4.3	0.5		mg/L	2	05/17/2001
MAGNESIUM, DISSOLVED						
		E242.1				Analyst: HR
Magnesium	46	5		mg/L	20	05/20/2001
SODIUM, DISSOLVED						
		E273.1				Analyst: HR
Sodium	770	62.5		mg/L	250	05/17/2001
ALKALINITY, TOTAL						
		M2320 B				Analyst: HR
Alkalinity, Bicarbonate (As CaCO ₃)	27	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Total (As CaCO ₃)	27	5		mg/L CaCO ₃	1	05/12/2001
CONDUCTIVITY @ 25C						
		E120.1				Analyst: HR
Specific Conductance	5220	2		uS/cm	1	05/05/2001
HARDNESS, TOTAL						
		M2340 B				Analyst: HR
Hardness (As CaCO ₃)	950	1		mg/L	1	05/20/2001
PH						
		E150.1				Analyst: HR
pH	7.31	2		pH units	1	05/02/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Sum - Surrogate

1 of 2

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 11-Jun-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0105003	Client Sample ID:	Air Stripper Effluent
Lab ID:	0105003-13A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	05/03/2001 12:49:00 PM
		COC Record:	11171-11172

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC GRAVITY		M2710 F				Analyst: HR
Specific Gravity	1.004	0.001		Units	1	05/05/2001
TOTAL DISSOLVED SOLIDS		E180.1				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3710	40		mg/L	1	05/05/2001
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HR
Total Dissolved Solids (Calculated)	3330	5		mg/L	1	05/20/2001

Qualifiers:

PQL - Practical Quantitation Limit
 ND - Not Detected at Practical Quantitation Limit
 J - Analyte detected below Practical Quantitation Limit
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 Surr: - Surrogate

2 of 2

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ANALYTICAL REPORT

Date: 11-Jun-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0105003	Client Sample ID:	Air Stripper Influent
Lab ID:	0105003-12A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	05/03/2001 12:40:00 PM
		COC Record:	11171-11172

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: HR
Methyl tert-Butyl Ether	200	10		µg/L	10	05/10/2001
Benzene	940	5		µg/L	10	05/10/2001
Toluene	79	5		µg/L	10	05/10/2001
Ethylbenzene	290	5		µg/L	10	05/10/2001
m,p-Xylene	700	10		µg/L	10	05/10/2001
o-Xylene	120	5		µg/L	10	05/10/2001
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HR
Bromide	0.34	0.2		mg/L	5	05/15/2001
Chloride	200	59		mg/L	990	05/15/2001
Fluoride	0.56	0.25		mg/L	5	05/15/2001
Sulfate	1400	79		mg/L	990	05/15/2001
CALCIUM, DISSOLVED						
		E215.1				Analyst: HR
Calcium	300	50		mg/L	200	05/20/2001
IRON, DISSOLVED						
		E236.1				Analyst: HR
Iron	ND	0.1		mg/L	1	05/20/2001
POTASSIUM, DISSOLVED						
		E258.1				Analyst: HR
Potassium	4.3	0.5		mg/L	2	05/17/2001
MAGNESIUM, DISSOLVED						
		E242.1				Analyst: HR
Magnesium	46	5		mg/L	20	05/20/2001
SODIUM, DISSOLVED						
		E273.1				Analyst: HR
Sodium	750	62.5		mg/L	250	05/17/2001
ALKALINITY, TOTAL						
		M2320 B				Analyst: HR
Alkalinity, Bicarbonate (As CaCO ₃)	920	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	05/12/2001
Alkalinity, Total (As CaCO ₃)	920	5		mg/L CaCO ₃	1	05/12/2001
CONDUCTIVITY @ 25C						
		E120.1				Analyst: HR
Specific Conductance	4570	2		uS/cm	1	05/05/2001
HARDNESS, TOTAL						
		M2340 B				Analyst: HR
Hardness (As CaCO ₃)	930	1		mg/L	1	05/20/2001
PH						
		E150.1				Analyst: HR
pH	7.20	2		pH units	1	05/02/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: 11-Jun-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0105003	Client Sample ID:	Air Stripper Influent
Lab ID:	0105003-12A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	05/03/2001 12:40:00 PM
		COC Record:	11171-11172

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC GRAVITY		M2710 F				Analyst: HR
Specific Gravity	1.004	0.001		Units	1	05/05/2001
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3690	40		mg/L	1	05/05/2001
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HR
Total Dissolved Solids (Calculated)	3230	5		mg/L	1	05/20/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

2 of 2

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ANALYTICAL REPORT

Date: 13-Sep-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0108001	Client Sample ID:	Air Stripper-Effluent
Lab ID:	0108001-15A	Matrix:	AQUEOUS
Project:	Thriftway Refinery-Quarterly; Bloomfield, NM	Collection Date:	07/31/2001 2:33:00 PM
		COC Record:	11266

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Methyl tert-Butyl Ether	ND	1		µg/L	1	08/03/2001
Benzene	0.9	0.5		µg/L	1	08/03/2001
Toluene	ND	0.5		µg/L	1	08/03/2001
Ethylbenzene	ND	0.5		µg/L	1	08/03/2001
m,p-Xylene	1.1	1		µg/L	1	08/03/2001
o-Xylene	ND	0.5		µg/L	1	08/03/2001
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HR
Chloride	2000	15		mg/L	250	08/05/2001
Sulfate	1200	20		mg/L	250	08/05/2001
Bromide	0.38	0.04		mg/L	1	08/05/2001
Fluoride	0.7	0.05		mg/L	1	08/05/2001
CALCIUM, DISSOLVED						
		E215.1				Analyst: DC
Calcium	290	50		mg/L	200	08/31/2001
POTASSIUM, DISSOLVED						
		E258.1				Analyst: DC
Potassium	6.2	2.5		mg/L	10	08/31/2001
MAGNESIUM, DISSOLVED						
		E242.1				Analyst: DC
Magnesium	46	5		mg/L	20	08/31/2001
SODIUM, DISSOLVED						
		E273.1				Analyst: HR
Sodium	800	100		mg/L	400	09/04/2001
ALKALINITY, TOTAL						
		M2320 B				Analyst: HR
Alkalinity, Bicarbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Total (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	08/01/2001
CONDUCTIVITY @ 25C						
		E120.1				Analyst: HR
Specific Conductance	14300	2		uS/cm	1	08/01/2001
HARDNESS, TOTAL						
		M2340 B				Analyst: DC
Hardness (As CaCO ₃)	910	1		mg/L	1	08/31/2001
PH						
		E150.1				Analyst: HR
pH	ND	2		pH units	1	08/01/2001
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3640	40		mg/L	1	08/05/2001
TOTAL DISSOLVED SOLIDS						
		CALC				Analyst: DC
Total Dissolved Solids (Calculated)	4370	5		mg/L	1	08/31/2001

Qualifiers: PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

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20 of 25
16 of 17

5

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ANALYTICAL REPORT

Date: 13-Sep-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0108001	Client Sample ID:	Air Stripper-Effluent
Lab ID:	0108001-15A	Matrix:	AQUEOUS
Project:	Thriftway Refinery-Quarterly; Bloomfield, NM	Collection Date:	07/31/2001 2:33:00 PM
		COC Record:	11266

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL		SW6010B		Analyst: DC		
Arsenic	ND	0.01		mg/L	1	09/04/2001
Barium	0.054	0.008		mg/L	1	09/04/2001
Cadmium	ND	0.001		mg/L	1	09/04/2001
Chromium	ND	0.002		mg/L	1	09/04/2001
Lead	ND	0.005		mg/L	1	09/04/2001
Selenium	ND	0.004		mg/L	1	09/04/2001
Silver	ND	0.001		mg/L	1	09/04/2001
MERCURY, TOTAL		E245.1		Analyst: HR		
Mercury	ND	0.0002		mg/L	1	08/11/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the presence of a blank

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

21 of 25
17 of 17
B

OFF: (505) 325-5667
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ANALYTICAL REPORT

Date: 13-Sep-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0108001	Client Sample ID:	Air Stripper-Influent
Lab ID:	0108001-14A	Matrix:	AQUEOUS
Project:	Thriftway Refinery-Quarterly; Bloomfield, NM	Collection Date:	07/31/2001 2:31:00 PM
		COC Record:	11266

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Methyl tert-Butyl Ether	250	20		µg/L	20	08/03/2001
Benzene	1600	10		µg/L	20	08/03/2001
Toluene	210	10		µg/L	20	08/03/2001
Ethylbenzene	520	10		µg/L	20	08/03/2001
m,p-Xylene	1500	20		µg/L	20	08/03/2001
o-Xylene	110	10		µg/L	20	08/03/2001
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HR
Chloride	220	15		mg/L	250	08/05/2001
Sulfate	1200	20		mg/L	250	08/05/2001
Bromide	0.28	0.04		mg/L	1	08/05/2001
Fluoride	0.65	0.05		mg/L	1	08/05/2001
CALCIUM, DISSOLVED						
		E215.1				Analyst: DC
Calcium	38	5		mg/L	20	08/31/2001
POTASSIUM, DISSOLVED						
		E258.1				Analyst: DC
Potassium	6.1	2.5		mg/L	10	08/31/2001
MAGNESIUM, DISSOLVED						
		E242.1				Analyst: DC
Magnesium	42	5		mg/L	20	08/31/2001
SODIUM, DISSOLVED						
		E273.1				Analyst: HR
Sodium	780	100		mg/L	400	09/04/2001
ALKALINITY, TOTAL						
		M2320 B				Analyst: HR
Alkalinity, Bicarbonate (As CaCO ₃)	1140	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	08/01/2001
Alkalinity, Total (As CaCO ₃)	1140	5		mg/L CaCO ₃	1	08/01/2001
CONDUCTIVITY @ 25C						
		E120.1				Analyst: HR
Specific Conductance	4450	2		uS/cm	1	08/01/2001
HARDNESS, TOTAL						
		M2340 B				Analyst: DC
Hardness (As CaCO ₃)	270	1		mg/L	1	08/31/2001
PH						
		E150.1				Analyst: HR
pH	7.26	2		pH units	1	08/01/2001
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3320	40		mg/L	1	08/05/2001
TOTAL DISSOLVED SOLIDS						
		CALC				Analyst: DC
Total Dissolved Solids (Calculated)	2940	5		mg/L	1	08/31/2001

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the background

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

14 of 25

13

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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 13-Sep-01

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0108001	Client Sample ID:	Air Stripper-Influent
Lab ID:	0108001-14A	Matrix:	AQUEOUS
		Collection Date:	07/31/2001 2:31:00 PM
Project:	Thriftway Refinery-Quarterly; Bloomfield, NM	COC Record:	11266

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL		SW6010B				Analyst: DC
Arsenic	ND	0.01		mg/L	1	09/04/2001
Barium	0.054	0.008		mg/L	1	09/04/2001
Cadmium	ND	0.001		mg/L	1	09/04/2001
Chromium	ND	0.002		mg/L	1	09/04/2001
Lead	ND	0.005		mg/L	1	09/04/2001
Selenium	ND	0.004		mg/L	1	09/04/2001
Silver	ND	0.001		mg/L	1	09/04/2001
MERCURY, TOTAL		E245.1				Analyst: HR
Mercury	ND	0.0002		mg/L	1	08/11/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the presence of Method Blank

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15 of 2517

5

APPENDIX B(1)
Monitor Well Laboratory Analyses,
QA/QC Data and COC Records

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February 28, 2002

Terry Griffin
BioTech Remediation, Inc.
510 Airport Drive, Suite 104
Farmington, NM 87401
TEL: (505) 327-4965
FAX: (505) 564-3604

RE: Thriftway Refinery; Bloomfield, NM

Order No.: 0202003

Dear Terry Griffin,

On Site Technologies, LTD. received 18 samples on 02/01/2002 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

- Alkalinity, Total (M2320 B)
- Anions by Ion Chromatography (E300)
- Aromatic Volatiles by GC/PID (SW8021B)
- Conductivity @ 25C (E120.1)
- Hardness, Total (M2340 B)
- ICP Metals, Dissolved (SW6010B)
- ICP Metals, Total (SW6010B)
- Mercury, Total (SW7470)
- pH (E150.1)
- Polynuclear Aromatic Hydrocarbons (SW8270C)
- Total Dissolved Solids (CALC)
- Total Dissolved Solids (E160.1)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Heidi Reese

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On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.
Project: Thriftway Refinery; Bloomfield, NM
Lab Order: 0202003

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

Cation-Anion Balance: 0202003-01C; Thriftway Refinery, MW-18

Total Cation-Anion = 85.66 meq/L

Difference Cation-Anion = 7.07 meq/L

% Difference = 8.3 %

Cation-Anion Balance: 0202003-02C; Thriftway Refinery, MW-09

Total Cation-Anion = 97.27 meq/L

Difference Cation-Anion = 5.73 meq/L

% Difference = 5.9 %

Cation-Anion Balance: 0202003-03C; Thriftway Refinery, MW-05

Total Cation-Anion = 111.21 meq/L

Difference Cation-Anion = 7.96 meq/L

% Difference = 7.2 %

Cation-Anion Balance: 0202003-04C; Thriftway Refinery, MW-06

Total Cation-Anion = 88.13 meq/L

Difference Cation-Anion = 6.09 meq/L

% Difference = 6.9 %

Cation-Anion Balance: 0202003-05C; Thriftway Refinery, MW-19

Total Cation-Anion = 141.02 meq/L

Difference Cation-Anion = 7.67 meq/L

% Difference = 5.4 %

CLIENT: BioTech Remediation, Inc.
Project: Thriftway Refinery; Bloomfield, NM
Lab Order: 0202003

CASE NARRATIVE

Cation-Anion Balance: 0202003-06C; Thriftway Refinery, MW-20

Total Cation-Anion = 139.87 meq/L

Difference Cation-Anion = 10.35 meq/L

% Difference = 7.4 %

Cation-Anion Balance: 0202003-07C; Thriftway Refinery, MW-21

Total Cation-Anion = 184.8 meq/L

Difference Cation-Anion = 8.77 meq/L

% Difference = 4.7 %

Cation-Anion Balance: 0202003-08C; Thriftway Refinery, MW-22

Total Cation-Anion = 212.24 meq/L

Difference Cation-Anion = 11.43 meq/L

% Difference = 5.4 %

Cation-Anion Balance: 0202003-09C; Thriftway Refinery, MW-08

Total Cation-Anion = 185.45 meq/L

Difference Cation-Anion = 8.17 meq/L

% Difference = 4.4 %

Cation-Anion Balance: 0202003-10C; Thriftway Refinery, MW-10

Total Cation-Anion = 164.85 meq/L

Difference Cation-Anion = 7.14 meq/L

% Difference = 4.3 %

Cation-Anion Balance: 0202003-11C; Thriftway Refinery, MW-10 DUP

Total Cation-Anion = 165.26 meq/L

Difference Cation-Anion = 6.61 meq/L

% Difference = 4.0 %

Cation-Anion Balance: 0202003-12C; Thriftway Refinery, MW-11

Total Cation-Anion = 141.16 meq/L

Difference Cation-Anion = 5.53 meq/L

% Difference = 3.9 %

Cation-Anion Balance: 0202003-13C; Thriftway Refinery, MW-15

Total Cation-Anion = 138.31 meq/L

Difference Cation-Anion = 6.9 meq/L

% Difference = 5.0 %

Cation-Anion Balance: 0202003-14C; Thriftway Refinery, MW-13

Total Cation-Anion = 162.00 meq/L

Difference Cation-Anion = 8.96 meq/L

CLIENT: BioTech Remediation, Inc.
Project: Thriftway Refinery; Bloomfield, NM
Lab Order: 0202003

CASE NARRATIVE

% Difference = 5.5 %

Cation-Anion Balance: 0202003-15C; Thriftway Refinery, MW-12

Total Cation-Anion = 175.34 meq/L

Difference Cation-Anion = 8.83 meq/L

% Difference = 5.0 %

Cation-Anion Balance: 0202003-16C; Thriftway Refinery, Stripper Influent

Total Cation-Anion = 113.15 meq/L

Difference Cation-Anion = 8.47 meq/L

% Difference = 7.5 %

Cation-Anion Balance: 0202003-17C; Thriftway Refinery, Stripper Effluent

Total Cation-Anion = 115.68 meq/L

Difference Cation-Anion = 3.88 meq/L

% Difference = 3.4 %

OFF: (505) 325-5667
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ANALYTICAL REPORT

Date: 28-Feb-02

Client: BioTech Remediation, Inc.

Client Sample Info: Thriftway Refinery

Work Order: 0202003

Client Sample ID: MW-18

Lab ID: 0202003-01A Matrix: AQUEOUS

Collection Date: 01/30/2002 2:18:00 PM

Project: Thriftway Refinery; Bloomfield, NM

COC Record: 11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: HNR	
Methyl tert-Butyl Ether	18	1		µg/L	1	02/05/2002
Benzene	1	0.5		µg/L	1	02/05/2002
Toluene	ND	0.5		µg/L	1	02/05/2002
Ethylbenzene	ND	0.5		µg/L	1	02/05/2002
m,p-Xylene	ND	1		µg/L	1	02/05/2002
o-Xylene	ND	0.5		µg/L	1	02/05/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	0.059	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.149	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	158	6.1		mg/L	100	02/11/2002
Sulfate	649	8.2		mg/L	100	02/11/2002
Bromide	0.56	0.04		mg/L	1	02/14/2002
Fluoride	0.35	0.05		mg/L	1	02/14/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	58.3	0.1		mg/L	10	02/12/2002
Magnesium 285.213	25.4	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.99	0.62		mg/L	10	02/12/2002
Sodium 589.592	948	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	1300	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	1300	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-18
Lab ID:	0202003-01A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 2:18:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	3920	2		uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	250	1		mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.65	2		pH units	1	02/04/2002
Temperature	21	0.		pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	2730	40		mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	2620	5		mg/L	1	02/23/2002

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client: BioTech Remediation, Inc.

Client Sample Info: Thriftway Refinery

Work Order: 0202003

Client Sample ID: MW-09

Lab ID: 0202003-02A Matrix: AQUEOUS

Collection Date: 01/30/2002 3:01:00 PM

Project: Thriftway Refinery; Bloomfield, NM

COC Record: 11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	26	1		µg/L	1	02/11/2002
Benzene	5.5	0.5		µg/L	1	02/11/2002
Toluene	1.6	0.5		µg/L	1	02/11/2002
Ethylbenzene	1.7	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	0.023	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.094	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	140	60		mg/L	1020	02/11/2002
Sulfate	1370	80		mg/L	1020	02/11/2002
Bromide	0.22	0.04		mg/L	1	02/14/2002
Fluoride	0.44	0.05		mg/L	1	02/14/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	228	0.1		mg/L	10	02/12/2002
Magnesium 285.213	31.4	0.07		mg/L	10	02/12/2002
Potassium 766.490	5.16	0.62		mg/L	10	02/12/2002
Sodium 589.592	860	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	810	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	810	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-09
Lab ID:	0202003-02A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 3:01:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	4140		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	700		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.17		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3170		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3120		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-05
Lab ID:	0202003-03A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 3:23:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
				SW8021B		Analyst: DDM
Methyl tert-Butyl Ether	43	1		µg/L	1	02/11/2002
Benzene	5.1	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
				SW6010B		Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.062	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
				SW7470		Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: HNR
Chloride	188	12		mg/L	250	02/11/2002
Sulfate	1570	16		mg/L	250	02/11/2002
Bromide	0.39	0.04		mg/L	1	02/14/2002
Fluoride	0.65	0.05		mg/L	1	02/14/2002
ICP METALS, DISSOLVED						
				SW6010B		Analyst: DJC
Calcium 317.933	51.4	0.1		mg/L	10	02/12/2002
Magnesium 285.213	15	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.19	0.62		mg/L	10	02/12/2002
Sodium 589.592	1280	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
				M2320 B		Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	830	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	830	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-05
Lab ID:	0202003-03A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 3:23:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5100		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	190		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.95		2	pH units	1	02/04/2002
Temperature	21		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3680		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3610		5	mg/L	1	02/23/2002

Qualifiers:

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-06
Lab ID:	0202003-04A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 3:47:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	2.4	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.013	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	53.2	12		mg/L	200	02/11/2002
Sulfate	1220	16		mg/L	200	02/11/2002
Bromide	0.28	0.04		mg/L	1	02/14/2002
Fluoride	0.5	0.05		mg/L	1	02/14/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	170	0.1		mg/L	10	02/12/2002
Magnesium 285.213	29.1	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.99	0.62		mg/L	10	02/12/2002
Sodium 589.592	830	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	860	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	860	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-06
Lab ID:	0202003-04A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 3:47:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	3870		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	540		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.54		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	2900		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	2820		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
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E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-19
Lab ID:	0202003-05A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 9:25:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
	SW8021B					Analyst: DDM
Methyl tert-Butyl Ether	530	5		µg/L	5	02/12/2002
Benzene	0.6	0.5		µg/L	1	02/11/2002
Toluene	0.9	0.5		µg/L	1	02/11/2002
Ethylbenzene	0.8	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
	SW6010B					Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.042	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
	SW7470					Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
	E300					Analyst: HNR
Chloride	143	30		mg/L	505	02/11/2002
Sulfate	2260	40		mg/L	505	02/11/2002
Fluoride	0.38	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
	SW6010B					Analyst: DJC
Calcium 317.933	425	0.1		mg/L	10	02/12/2002
Magnesium 285.213	83.6	0.07		mg/L	10	02/12/2002
Potassium 766.490	5.67	0.62		mg/L	10	02/12/2002
Sodium 589.592	1060	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
	M2320 B					Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	950	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	950	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-19
Lab ID:	0202003-05A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 9:25:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5560		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1400		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.3		2	pH units	1	02/04/2002
Temperature	21		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	4690		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	4550		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-20
Lab ID:	0202003-06A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 9:47:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	670	5		µg/L	5	02/12/2002
Benzene	1.6	0.5		µg/L	1	02/11/2002
Toluene	3.7	0.5		µg/L	1	02/11/2002
Ethylbenzene	6.3	0.5		µg/L	1	02/11/2002
m,p-Xylene	1.2	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	0.019	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.129	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	105	30		mg/L	500	02/11/2002
Sulfate	2180	40		mg/L	500	02/11/2002
Bromide	0.7	0.04		mg/L	1	02/17/2002
Fluoride	0.5	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	533	0.1		mg/L	10.2	02/12/2002
Magnesium 285.213	79.3	0.071		mg/L	10.2	02/12/2002
Potassium 766.490	3.89	0.63		mg/L	10.2	02/12/2002
Sodium 589.592	963	0.19		mg/L	10.2	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	1000	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	1000	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-20
Lab ID:	0202003-06A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 9:47:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5430		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1660		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	6.9		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	4610		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	4460		5	mg/L	1	02/23/2002

Qualifiers:

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-21
Lab ID:	0202003-07A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:07:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	44	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.016	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	109	60		mg/L	1015	02/11/2002
Sulfate	3630	80		mg/L	1015	02/11/2002
Bromide	0.35	0.04		mg/L	1	02/17/2002
Fluoride	0.48	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	373	0.1		mg/L	10	02/12/2002
Magnesium 285.213	65.6	0.07		mg/L	10	02/12/2002
Potassium 766.490	5.1	0.62		mg/L	10	02/12/2002
Sodium 589.592	1670	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	570	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	570	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers:
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Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-21
Lab ID:	0202003-07A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:07:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	7380	2		uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1200	1		mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.05	2		pH units	1	02/04/2002
Temperature	22	0.		pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	6350	40		mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	6200	5		mg/L	1	02/23/2002

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-22
Lab ID:	0202003-08A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:26:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
				SW8021B		Analyst: DDM
Methyl tert-Butyl Ether	12	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
				SW6010B		Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	0.145	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.018	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
				SW7470		Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: HNR
Chloride	160	30		mg/L	500	02/11/2002
Sulfate	4290	40		mg/L	500	02/11/2002
Bromide	0.93	0.04		mg/L	1	02/17/2002
Fluoride	0.44	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
				SW6010B		Analyst: DJC
Calcium 317.933	466	0.1		mg/L	10	02/12/2002
Magnesium 285.213	80.5	0.07		mg/L	10	02/12/2002
Potassium 766.490	7.15	0.62		mg/L	10	02/12/2002
Sodium 589.592	1880	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
				M2320 B		Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	400	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	400	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers:
PQL - Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-22
Lab ID:	0202003-08A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:26:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	8450		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1500		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	6.97		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	7420		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	7120		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-08
Lab ID:	0202003-09A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:42:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.107	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	76.5	30		mg/L	500	02/14/2002
Sulfate	3900	40		mg/L	500	02/14/2002
Bromide	0.28	0.04		mg/L	1	02/17/2002
Fluoride	0.84	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	435	0.1		mg/L	10	02/12/2002
Magnesium 285.213	71	0.07		mg/L	10	02/12/2002
Potassium 766.490	3.82	0.62		mg/L	10	02/12/2002
Sodium 589.592	1590	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO3)	320	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Total (As CaCO3)	320	5		mg/L CaCO3	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-08
Lab ID:	0202003-09A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 10:42:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	7320		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1380		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.38		2	pH units	1	02/04/2002
Temperature	23		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	6440		40	mg/L	1	02/06/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	6270		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-10
Lab ID:	0202003-10A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:02:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DDM
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
		SW6010B				Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.043	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
		SW7470				Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HNR
Chloride	77.8	30.3		mg/L	505	02/14/2002
Sulfate	3460	40.4		mg/L	505	02/14/2002
Bromide	0.44	0.04		mg/L	1	02/17/2002
Fluoride	0.71	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
		SW6010B				Analyst: DJC
Calcium 317.933	409	0.1		mg/L	10	02/12/2002
Magnesium 285.213	55.6	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.5	0.62		mg/L	10	02/12/2002
Sodium 589.592	1400	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
		M2320 B				Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	280	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	280	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-10
Lab ID:	0202003-10A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:02:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	6580		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1250		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.3		2	pH units	1	02/04/2002
Temperature	23		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	5660		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	5580		5	mg/L	1	02/23/2002

Qualifiers:

- PQL - Practical Quantitation Limit
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- B - Analyte detected in the associated Method Blank

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- R - RPD outside accepted recovery limits
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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-10 Duplicate
Lab ID:	0202003-11A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:02:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DDM
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
		SW6010B				Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.045	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
		SW7470				Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HNR
Chloride	79.8	30.3		mg/L	505	02/14/2002
Sulfate	3480	40.4		mg/L	505	02/14/2002
Bromide	0.41	0.04		mg/L	1	02/17/2002
Fluoride	0.7	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
		SW6010B				Analyst: DJC
Calcium 317.933	409	0.1		mg/L	10.1	02/12/2002
Magnesium 285.213	54.8	0.071		mg/L	10.1	02/12/2002
Potassium 766.490	4.64	0.63		mg/L	10.1	02/12/2002
Sodium 589.592	1400	0.19		mg/L	10.1	02/12/2002
ALKALINITY, TOTAL						
		M2320 B				Analyst: HNR
Alkalinity, Bicarbonate (As CaCO3)	280	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Total (As CaCO3)	280	5		mg/L CaCO3	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-10 Duplicate
Lab ID:	0202003-11A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:02:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C	E120.1					Analyst: HNR
Specific Conductance	6580	2		uS/cm	1	02/14/2002
HARDNESS, TOTAL	M2340 B					Analyst: HNR
Hardness (As CaCO3)	1250	1		mg/L	1	02/23/2002
PH	E150.1					Analyst: HNR
pH	7.3	2		pH units	1	02/04/2002
Temperature	23	0.		pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS	E160.1					Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	5710	40		mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS	CALC					Analyst: HNR
Total Dissolved Solids (Calculated)	5600	5		mg/L	1	02/23/2002

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-11
Lab ID:	0202003-12A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:21:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	0.026	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.216	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	64.1	30.3		mg/L	505	02/14/2002
Sulfate	2980	40.4		mg/L	505	02/14/2002
Bromide	0.27	0.04		mg/L	1	02/17/2002
Fluoride	0.63	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	422	0.1		mg/L	10.2	02/12/2002
Magnesium 285.213	30.9	0.071		mg/L	10.2	02/12/2002
Potassium 766.490	6.04	0.63		mg/L	10.2	02/12/2002
Sodium 589.592	1140	0.19		mg/L	10.2	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	240	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	240	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surrogate - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-11
Lab ID:	0202003-12A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:21:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				
Specific Conductance	5630	2		uS/cm	1	Analyst: HNR 02/14/2002
HARDNESS, TOTAL		M2340 B				
Hardness (As CaCO3)	1180	1		mg/L	1	Analyst: HNR 02/23/2002
PH		E150.1				
pH	7.35	2		pH units	1	Analyst: HNR 02/04/2002
Temperature	22	0.		pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				
Total Dissolved Solids (Residue, Filterable)	4880	40		mg/L	1	Analyst: HNR 02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				
Total Dissolved Solids (Calculated)	4790	5		mg/L	1	Analyst: HNR 02/23/2002

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-15
Lab ID:	0202003-13A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:42:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	0.008	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.488	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	182	30.3		mg/L	505	02/14/2002
Sulfate	2750	40.4		mg/L	505	02/14/2002
Bromide	1.15	0.04		mg/L	1	02/17/2002
Fluoride	0.78	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	524	0.1		mg/L	10	02/12/2002
Magnesium 285.213	47.2	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.59	0.62		mg/L	10	02/12/2002
Sodium 589.592	976	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	200	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	200	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-15
Lab ID:	0202003-13A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 11:42:00 AM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5500		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1500		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.35		2	pH units	1	02/04/2002
Temperature	23		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	4860		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	4600		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-13
Lab ID:	0202003-14A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 2:30:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/11/2002
Benzene	ND	0.5		µg/L	1	02/11/2002
Toluene	ND	0.5		µg/L	1	02/11/2002
Ethylbenzene	ND	0.5		µg/L	1	02/11/2002
m,p-Xylene	ND	1		µg/L	1	02/11/2002
o-Xylene	ND	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.006	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	80.5	30		mg/L	500	02/14/2002
Sulfate	3320	40		mg/L	500	02/14/2002
Bromide	0.22	0.04		mg/L	1	02/17/2002
Fluoride	0.93	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	483	0.1		mg/L	10.1	02/12/2002
Magnesium 285.213	67.5	0.071		mg/L	10.1	02/12/2002
Potassium 766.490	5.63	0.63		mg/L	10.1	02/12/2002
Sodium 589.592	1280	0.19		mg/L	10.1	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	310	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	310	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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R - RPD outside accepted recovery limits
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Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-13
Lab ID:	0202003-14A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 2:30:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	6340		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1480		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.15		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	5680		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	5420		5	mg/L	1	02/23/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-12
Lab ID:	0202003-15A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 2:52:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
	SW8021B					Analyst: DDM
Methyl tert-Butyl Ether	110	1		µg/L	1	02/11/2002
Benzene	28	0.5		µg/L	1	02/11/2002
Toluene	1.8	0.5		µg/L	1	02/11/2002
Ethylbenzene	54	0.5		µg/L	1	02/11/2002
m,p-Xylene	100	1		µg/L	1	02/11/2002
o-Xylene	4.6	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
	SW6010B					Analyst: DJC
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.078	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
	SW7470					Analyst: DJC
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
	E300					Analyst: HNR
Chloride	97.5	30		mg/L	500	02/14/2002
Sulfate	3100	40		mg/L	500	02/14/2002
Bromide	0.28	0.04		mg/L	1	02/17/2002
Fluoride	1.23	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
	SW6010B					Analyst: DJC
Calcium 317.933	396	0.1		mg/L	10.2	02/12/2002
Magnesium 285.213	74.2	0.071		mg/L	10.2	02/12/2002
Potassium 766.490	4.02	0.63		mg/L	10.2	02/12/2002
Sodium 589.592	1520	0.19		mg/L	10.2	02/12/2002
ALKALINITY, TOTAL						
	M2320 B					Analyst: HNR
Alkalinity, Bicarbonate (As CaCO ₃)	970	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	970	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	MW-12
Lab ID:	0202003-15A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 2:52:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	6890		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1290		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.08		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	5860		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	5780		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Influent
Lab ID:	0202003-16A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:19:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	200	10		µg/L	10	02/11/2002
Benzene	520	5		µg/L	10	02/11/2002
Toluene	120	5		µg/L	10	02/11/2002
Ethylbenzene	360	5		µg/L	10	02/11/2002
m,p-Xylene	740	10		µg/L	10	02/11/2002
o-Xylene	110	5		µg/L	10	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	ND	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.039	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	204	15		mg/L	250	02/14/2002
Sulfate	1520	20		mg/L	250	02/14/2002
Bromide	0.36	0.04		mg/L	1	02/17/2002
Fluoride	0.51	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	357	0.1		mg/L	10	02/12/2002
Magnesium 285.213	56	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.4	0.62		mg/L	10	02/12/2002
Sodium 589.592	880	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO ₃)	910	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	02/09/2002
Alkalinity, Total (As CaCO ₃)	910	5		mg/L CaCO ₃	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Influent
Lab ID:	0202003-16A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:19:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	4710		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1120		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	7.12		2	pH units	1	02/04/2002
Temperature	23		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3610		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3570		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
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ANALYTICAL REPORT

Date: 28-Feb-02

Client: BioTech Remediation, Inc.
Work Order: 0202003
Lab ID: 0202003-17A Matrix: AQUEOUS
Project: Thriftway Refinery; Bloomfield, NM

Client Sample Info: Thriftway Refinery
Client Sample ID: Air Stripper Effluent
Collection Date: 01/31/2002 3:25:00 PM
COC Record: 11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B		Analyst: DDM	
Methyl tert-Butyl Ether	2.3	1		µg/L	1	02/11/2002
Benzene	0.8	0.5		µg/L	1	02/11/2002
Toluene	5.1	0.5		µg/L	1	02/11/2002
Ethylbenzene	1.8	0.5		µg/L	1	02/11/2002
m,p-Xylene	6.8	1		µg/L	1	02/11/2002
o-Xylene	1.7	0.5		µg/L	1	02/11/2002
ICP METALS, TOTAL						
			SW6010B		Analyst: DJC	
Arsenic	ND	0.008		mg/L	1	02/08/2002
Selenium	ND	0.006		mg/L	1	02/08/2002
Lead	0.034	0.004		mg/L	1	02/08/2002
Cadmium	ND	0.001		mg/L	1	02/08/2002
Barium	0.039	0.002		mg/L	1	02/08/2002
Chromium	ND	0.028		mg/L	1	02/08/2002
Silver	ND	0.001		mg/L	1	02/08/2002
MERCURY, TOTAL						
			SW7470		Analyst: DJC	
Mercury	ND	0.001		mg/L	1	02/04/2002
ANIONS BY ION CHROMATOGRAPHY						
			E300		Analyst: HNR	
Chloride	881	15		mg/L	250	02/14/2002
Sulfate	1490	20		mg/L	250	02/14/2002
Bromide	0.33	0.04		mg/L	1	02/17/2002
Fluoride	0.53	0.05		mg/L	1	02/17/2002
ICP METALS, DISSOLVED						
			SW6010B		Analyst: DJC	
Calcium 317.933	350	0.1		mg/L	10	02/12/2002
Magnesium 285.213	55.1	0.07		mg/L	10	02/12/2002
Potassium 766.490	4.46	0.62		mg/L	10	02/12/2002
Sodium 589.592	866	0.19		mg/L	10	02/12/2002
ALKALINITY, TOTAL						
			M2320 B		Analyst: HNR	
Alkalinity, Bicarbonate (As CaCO3)	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	02/09/2002
Alkalinity, Total (As CaCO3)	ND	5		mg/L CaCO3	1	02/09/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Air Stripper Effluent
Lab ID:	0202003-17A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/31/2002 3:25:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: HNR
Specific Conductance	5960		2	uS/cm	1	02/14/2002
HARDNESS, TOTAL		M2340 B				Analyst: HNR
Hardness (As CaCO3)	1100		1	mg/L	1	02/23/2002
PH		E150.1				Analyst: HNR
pH	3.01		2	pH units	1	02/04/2002
Temperature	22		0.	pH units	1	02/04/2002
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	3890		40	mg/L	1	02/07/2002
TOTAL DISSOLVED SOLIDS		CALC				Analyst: HNR
Total Dissolved Solids (Calculated)	3650		5	mg/L	1	02/23/2002

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Feb-02

Client:	BioTech Remediation, Inc.	Client Sample Info:	Thriftway Refinery
Work Order:	0202003	Client Sample ID:	Trip Blank
Lab ID:	0202003-18A	Matrix:	AQUEOUS
Project:	Thriftway Refinery; Bloomfield, NM	Collection Date:	01/30/2002 12:15:00 PM
		COC Record:	11711

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HNR
Methyl tert-Butyl Ether	ND	1		µg/L	1	02/05/2002
Benzene	ND	0.5		µg/L	1	02/05/2002
Toluene	ND	0.5		µg/L	1	02/05/2002
Ethylbenzene	ND	0.5		µg/L	1	02/05/2002
m,p-Xylene	ND	1		µg/L	1	02/05/2002
o-Xylene	ND	0.5		µg/L	1	02/05/2002

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020211	Batch ID: 300_W-02/11/	Test Code: E300	Units: mg/L	Analysis Date: 02/11/2002	Prep Date:						
Client ID:	0202003	Run ID: IC-761_020211A		SeqNo: 47701							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	.006		0.05								
Sulfate	ND		0.05								

Sample ID: MB_020214	Batch ID: 300_W-02/14/0202003	Test Code: E300	Units: mg/L	Analysis Date: 02/14/2002	Prep Date:						
Client ID:	Run ID: IC-761_020214A	SeqNo: 47716									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.05									
Chloride	ND	0.05									
Fluoride	ND	0.025									
Sulfate	ND	0.05									

Sample ID: MB_020217	Batch ID: 300_W-02/17/	Test Code: E300	Units: mg/L	Analysis Date: 02/17/2002	Prep Date:						
Client ID:	0202003	Run ID: IC-761_020217A		SeqNo: 47807							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND		0.05								
Fluoride	ND		0.025								

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0202003-08CD		Batch ID: 300_W-02/11/	Test Code: E300	Units: mg/L		Analysis Date: 02/11/2002		Prep Date:	
Client ID: MW-22	0202003	Run ID: IC-761_020211A				SeqNo: 47712			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Chloride	168.5	25	0	0	0.0%	0	0	160.5	4.9% 5
Sulfate	4285	25	0	0	0.0%	0	0	4292	0.2% 4
Sample ID: 0202003-02CD		Batch ID: 300_W-02/14/	Test Code: E300	Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID: MW-09	0202003	Run ID: IC-761_020214A				SeqNo: 47734			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Bromide	.229	0.05	0	0	0.0%	0	0	0.222	3.1% 15
Fluoride	.445	0.025	0	0	0.0%	0	0	0.441	0.9% 15
Sample ID: 0202003-17CD		Batch ID: 300_W-02/14/	Test Code: E300	Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID: Air Stripper Effluent	0202003	Run ID: IC-761_020214A				SeqNo: 47728			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Chloride	882.8	12.5	0	0	0.0%	0	0	880.8	0.2% 5
Sulfate	1480	12.5	0	0	0.0%	0	0	1487	0.5% 4
Sample ID: 0202003-06CD		Batch ID: 300_W-02/17/	Test Code: E300	Units: mg/L		Analysis Date: 02/17/2002		Prep Date:	
Client ID: MW-20	0202003	Run ID: IC-761_020217A				SeqNo: 47820			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Bromide	.677	0.05	0	0	0.0%	0	0	0.706	4.2% 15
Fluoride	.506	0.025	0	0	0.0%	0	0	0.504	0.4% 15

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-02CMS		Batch ID: 300_W-02/11/		Test Code: E300		Units: mg/L		Analysis Date: 02/11/2002		Prep Date:	
Client ID: MW-09		0202003		Run ID: IC-761_020211A				SeqNo: 47713			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride		2.368	0.05	2.453	0.137	90.9%	80	121			
Sulfate		3.632	0.05	2.453	1.344	93.3%	87	110			
Sample ID: 0202003-11CMS		Batch ID: 300_W-02/14/		Test Code: E300		Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID: MW-10 Duplicate		0202003		Run ID: IC-761_020214A				SeqNo: 47729			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Bromide		2.404	0.05	2.476	0	97.1%	80	120			
Chloride		2.446	0.05	2.476	0.158	92.4%	80	121			
Fluoride		1.164	0.025	1.238	0	94.0%	80	120			
Sulfate		9.367	0.05	2.476	6.897	99.8%	87	110			
Sample ID: 0202003-06CMS		Batch ID: 300_W-02/17/		Test Code: E300		Units: mg/L		Analysis Date: 02/17/2002		Prep Date:	
Client ID: MW-20		0202003		Run ID: IC-761_020217A				SeqNo: 47821			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Bromide		3.125	0.05	2.513	0.7	96.5%	80	120			
Fluoride		1.709	0.025	1.257	0.5	96.2%	80	120			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020211		Batch ID: 300_W-02/11/		Test Code: E300		Units: mg/L		Analysis Date: 02/11/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020211A		SeqNo:		47703	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.241	0.05	2.448	0.006	91.3%	90	104				
Sulfate	2.331	0.05	2.448	0	95.2%	90	105				
Sample ID: LCS_020214		Batch ID: 300_W-02/14/		Test Code: E300		Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020214A		SeqNo:		47718	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.471	0.05	2.486	0	99.4%	90	110				
Chloride	2.325	0.05	2.486	0.006	93.3%	90	104				
Fluoride	1.174	0.025	1.243	0	94.4%	90	110				
Sulfate	2.48	0.05	2.486	0	99.8%	90	105				
Sample ID: LCS_020217		Batch ID: 300_W-02/17/		Test Code: E300		Units: mg/L		Analysis Date: 02/17/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020217A		SeqNo:		47809	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.456	0.05	2.481	0	99.0%	90	110				
Fluoride	1.182	0.025	1.24	0	95.3%	90	110				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020211		Batch ID: 300_W-02/11/		Test Code: E300		Units: mg/L		Analysis Date: 02/11/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020211A		SeqNo:		47702	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4.697	0.05	4.964	0	94.6%	90	110				
Sulfate	4.83	0.05	4.964	0	97.3%	90	110				
Sample ID: CCV2_020211		Batch ID: 300_W-02/11/		Test Code: E300		Units: mg/L		Analysis Date: 02/11/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020211A		SeqNo:		47714	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4.719	0.05	4.964	0	95.1%	90	110				
Sulfate	4.889	0.05	4.964	0	98.5%	90	110				
Sample ID: CCV1_020214		Batch ID: 300_W-02/14/		Test Code: E300		Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020214A		SeqNo:		47717	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	5.021	0.05	4.981	0	100.8%	90	110				
Chloride	4.794	0.05	4.981	0	96.2%	90	110				
Fluoride	2.414	0.025	2.49	0	96.9%	90	110				
Sulfate	4.863	0.05	4.981	0	97.6%	90	110				
Sample ID: CCV2_020214		Batch ID: 300_W-02/14/		Test Code: E300		Units: mg/L		Analysis Date: 02/14/2002		Prep Date:	
Client ID:		0202003		Run ID:		IC-761_020214A		SeqNo:		47737	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	4.937	0.05	4.981	0	99.1%	90	110				
Chloride	4.812	0.05	4.981	0	96.6%	90	110				
Fluoride	2.421	0.025	2.49	0	97.2%	90	110				
Sulfate	4.886	0.05	4.981	0	98.1%	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_020214 Batch ID: 300_W-02/14/ Test Code: E300 Units: mg/L Analysis Date: 02/14/2002 Prep Date:

Client ID: 0202003 Run ID: IC-761_020214A SeqNo: 47738

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	4.998	0.05	4.981	0	100.3%	90	110				
Chloride	4.867	0.05	4.981	0	97.7%	90	110				
Fluoride	2.462	0.025	2.49	0	98.9%	90	110				
Sulfate	4.931	0.05	4.981	0	99.0%	90	110				

Sample ID: CCV1_020217 Batch ID: 300_W-02/17/ Test Code: E300 Units: mg/L Analysis Date: 02/17/2002 Prep Date:

Client ID: 0202003 Run ID: IC-761_020217A SeqNo: 47808

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	5.019	0.05	4.974	0	100.9%	90	110				
Fluoride	2.436	0.025	2.487	0	97.9%	90	110				

Sample ID: CCV2_020211 Batch ID: 300_W-02/17/ Test Code: E300 Units: mg/L Analysis Date: 02/17/2002 Prep Date:

Client ID: 0202003 Run ID: IC-761_020217A SeqNo: 47822

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	5.117	0.05	4.974	0	102.9%	90	110				
Fluoride	2.506	0.025	2.487	0	100.8%	90	110				

Sample ID: CCV3_020217 Batch ID: 300_W-02/17/ Test Code: E300 Units: mg/L Analysis Date: 02/17/2002 Prep Date:

Client ID: 0202003 Run ID: IC-761_020217A SeqNo: 47826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	5.133	0.05	4.974	0	103.2%	90	110				
Fluoride	2.505	0.025	2.487	0	100.7%	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MBLK_020212	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:
Client ID: 0202003	Run ID: ICP_1_020212A	PQL	SPK value	SeqNo: 47841	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val
Calcium 317.933	ND		SPK Ref Val		
Magnesium 285.213	ND				
Potassium 766.490	ND				
Sodium 589.592	ND				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery, Bloomfield, NM

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0202003-01CD	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:						
Client ID: MW-18	0202003	Run ID: ICP_1_020212A		SeqNo: 47849							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	58.6	0.099	0	0	0.0%	0	0	58.31	0.5%	20	
Magnesium 285.213	25.59	0.069	0	0	0.0%	0	0	25.41	0.7%	20	
Potassium 766.490	4.792	0.61	0	0	0.0%	0	0	4.991	4.1%	20	
Sodium 589.592	949	0.19	0	0	0.0%	0	0	948.3	0.1%	20	

Sample ID: 0202003-14CD	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:						
Client ID: MW-13	0202003	Run ID: ICP_1_020212A		SeqNo: 47865							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	487.9	0.1	0	0	0.0%	0	0	483.5	0.9%	20	
Magnesium 285.213	67.91	0.07	0	0	0.0%	0	0	67.48	0.6%	20	
Potassium 766.490	5.682	0.62	0	0	0.0%	0	0	5.634	0.9%	20	
Sodium 589.592	1252	0.19	0	0	0.0%	0	0	1282	2.3%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-06CMS		Batch ID: 6010B_CATI		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/12/2002		Prep Date:		
Client ID: MW-20		0202003		Run ID: ICP_1_020212A				SeqNo: 47855				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933		1048	0.1	507.2	532.7	101.7%	75	125				E
Magnesium 285.213		150.7	0.071	69.34	79.34	102.9%	75	125				
Potassium 766.490		9.407	0.63	4.975	3.888	110.9%	75	125				
Sodium 589.592		2038	0.19	999.2	963.5	107.6%	75	125				E

Sample ID: 0202003-06CMSD		Batch ID: 6010B_CATI		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/12/2002		Prep Date:		
Client ID: MW-20		0202003		Run ID: ICP_1_020212A				SeqNo: 47856				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933		1040	0.099	511.6	532.7	99.2%	75	125	1048	0.8%	20	E
Magnesium 285.213		153.5	0.069	73.79	79.34	100.6%	75	125	150.7	1.9%	20	
Potassium 766.490		9.341	0.61	5.023	3.888	108.5%	75	125	9.407	0.7%	20	
Sodium 589.592		1986	0.19	1016	963.5	100.6%	75	125	2038	2.6%	20	E

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020212	Batch ID: 6010B_CAT1	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:						
Client ID:	0202003	Run ID: ICP_1_020212A		SeqNo: 47845							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	51.69	0.01	48.61	0	106.3%	75	125				
Magnesium 285.213	5.456	0.007	5.168	0	105.6%	75	125				
Potassium 766.490	1.006	0.062	0.9989	0	100.7%	75	125				
Sodium 589.592	50.84	0.019	50.48	0	100.7%	75	125				

Sample ID: LCSD_020212		Batch ID: 6010B_CAT1	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002		Prep Date:				
Client ID:		0202003	Run ID: ICP_1_020212A		SeqNo: 47846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	52.15	0.01	50.39	0	103.5%	75	125	51.69	0.9%	20	
Magnesium 285.213	5.36	0.007	5.051	0	106.1%	75	125	5.456	1.8%	20	
Potassium 766.490	.9867	0.062	0.9998	0	98.7%	75	125	1.006	1.9%	20	
Sodium 589.592	50.68	0.019	51.65	0	98.1%	75	125	50.84	0.3%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Blank

Consuming Calibration Blank											
Sample ID: CCB_020212	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002		Prep Date:					
Client ID:	0202003	Run ID: ICP_1_020212A		SeqNo: 47842							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	ND										
Magnesium 285.213	ND	0.01									
Potassium 766.490	ND	0.007									
Sodium 589.592	ND	0.062									
		0.019									

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020212	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:
Client ID: 0202003	Run ID: ICP_1_020212A	PQL	SPK value	SPK Ref Val	SeqNo: 47843
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium 317.933	.9776	0.01	1.005	0	97.3% 90 110
Magnesium 285.213	1.05	0.007	1.018	0	103.1% 90 110
Potassium 766.490	1.89	0.062	2.017	0	93.7% 90 110
Sodium 589.592	.9402	0.019	1.008	0	93.2% 90 110

Sample ID: CCV2_020212	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:
Client ID: 0202003	Run ID: ICP_1_020212A	PQL	SPK value	SPK Ref Val	SeqNo: 47869
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium 317.933	1.002	0.01	1	0	100.1% 90 110
Magnesium 285.213	.9991	0.007	1.018	0	98.1% 90 110
Potassium 766.490	1.955	0.062	2.017	0	96.9% 90 110
Sodium 589.592	1.02	0.019	1.008	0	101.2% 90 110

Sample ID: CCV3_020212	Batch ID: 6010B_CATI	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002	Prep Date:
Client ID: 0202003	Run ID: ICP_1_020212A	PQL	SPK value	SPK Ref Val	SeqNo: 47870
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium 317.933	1.008	0.01	1	0	100.7% 90 110
Magnesium 285.213	1.014	0.007	1.018	0	99.6% 90 110
Potassium 766.490	1.964	0.062	2.017	0	97.4% 90 110
Sodium 589.592	1.054	0.019	1.008	0	104.5% 90 110

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV4_020212 Batch ID: 6010B_CATI Test Code: SW6010B Units: mg/L Analysis Date: 02/12/2002 Prep Date:

Client ID: 0202003 Run ID: ICP_1_020212A SeqNo: 47871

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	1.007	0.01	1	0	100.6%	90	110				
Magnesium 285.213	.9988	0.007	1.018	0	98.1%	90	110				
Potassium 766.490	1.964	0.062	2.017	0	97.4%	90	110				
Sodium 589.592	1.045	0.019	1.008	0	103.6%	90	110				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM

Date: 28-Feb-02

QC SUMMARY REPORT

Initial Calibration Verification Standard

Initial Calibration Verification Standard											
Sample ID: ICV_020212	Batch ID: 6010B_CAT1	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/12/2002				Prep Date:			
Client ID:	0202003	Run ID:	ICP_1_020212A	SeqNo: 47844							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium 317.933	9.971	0.01	10.06	0	99.1%	90	110				
Magnesium 285.213	11.12	0.007	10.31	0	107.8%	90	110				
Potassium 766.490	9.628	0.062	10.04	0	95.9%	90	110				
Sodium 589.592	9.983	0.019	10.2	0	97.9%	90	110				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MBLK_020205	Batch ID: 6010B_AQ-R-	Test Code: SW6010B	Units: mg/L	Prep Date: 02/05/2002							
Client ID:	0202003	Run ID: ICP_1_020208A		Analysis Date: 02/08/2002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.008									
Barium	ND	0.002									
Cadmium	ND	0.001									
Chromium	ND	0.028									
Lead	ND	0.004									
Selenium	ND	0.006									
Silver	ND	0.001									

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0202003-04BD		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002			Prep Date: 02/05/2002	
Client ID: MW-06		Run ID: 0202003		ICP_1_020208A		SeqNo: 47787						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	ND	0.008	0	0	0.0%	0	0	0	0.0%	20		
Barium	.0122	0.002	0	0	0.0%	0	0	0.0128	4.8%	20		
Cadmium	ND	0.001	0	0	0.0%	0	0	0	0.0%	20		
Chromium	ND	0.028	0	0	0.0%	0	0	0	0.0%	20		
Lead	ND	0.004	0	0	0.0%	0	0	0	0.0%	20		
Selenium	ND	0.006	0	0	0.0%	0	0	0	0.0%	20		
Silver	ND	0.001	0	0	0.0%	0	0	0	0.0%	20		

Sample ID: 0202003-15BD			Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002			Prep Date: 02/05/2002	
Client ID: MW-12		0202003		Run ID: ICP_1_020208A						SeqNo: 47800			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Arsenic	.0018	0.008	0	0	0.0%	0	0	0.0029	0.0%	20	J		
Barium	.0782	0.002	0	0	0.0%	0	0	0.0776	0.8%	20			
Cadmium	ND	0.001	0	0	0.0%	0	0	0	0.0%	20			
Chromium	.0161	0.028	0	0	0.0%	0	0	0.0158	0.0%	20	J		
Lead	ND	0.004	0	0	0.0%	0	0	0	0.0%	20			
Selenium	ND	0.006	0	0	0.0%	0	0	0	0.0%	20			
Silver	ND	0.001	0	0	0.0%	0	0	0	0.0%	20			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-03BMS		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID: MW-05		0202003		Run ID: ICP_1_020208A				SeqNo: 47784			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.19	0.008	0.1993	0	95.3%	75	125				
Barium	.2286	0.002	0.1993	0.062	83.6%	75	125				
Cadmium	.1924	0.001	0.1993	0	96.5%	75	125				
Chromium	.1738	0.028	0.1993	0	87.2%	75	125				
Lead	.169	0.004	0.1993	0	84.8%	75	125				
Selenium	.1862	0.006	0.1993	0	93.4%	75	125				
Silver	.0474	0.001	0.0498	0	95.2%	75	125				

Sample ID: 0202003-03BMSD		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002			Prep Date: 02/05/2002		
Client ID: MW-05		0202003		Run ID: ICP_1_020208A				SeqNo: 47785					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic		.1891	0.008	0.1989	0	95.1%	75	125	0.19	0.5%	20		
Barium		.231	0.002	0.1989	0.062	85.0%	75	125	0.2286	1.0%	20		
Cadmium		.1946	0.001	0.1989	0	97.8%	75	125	0.1924	1.1%	20		
Chromium		.1779	0.028	0.1989	0	89.4%	75	125	0.1738	2.3%	20		
Lead		.1714	0.004	0.1989	0	86.2%	75	125	0.169	1.4%	20		
Selenium		.1885	0.006	0.1989	0	94.8%	75	125	0.1862	1.2%	20		
Silver		.0469	0.001	0.0497	0	94.4%	75	125	0.0474	1.1%	20		

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-12BMS		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID: MW-11		0202003		Run ID: ICP_1_020208A				SeqNo: 47796			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.2233	0.008	0.1996	0.026	98.8%	75	125				
Barium	.3723	0.002	0.1996	0.216	78.3%	75	125				
Cadmium	.1911	0.001	0.1996	0.00021	95.6%	75	125				
Chromium	.185	0.028	0.1996	0.0066	89.4%	75	125				
Lead	.1617	0.004	0.1996	0	81.0%	75	125				
Selenium	.1858	0.006	0.1996	0	93.1%	75	125				
Silver	.0504	0.001	0.0499	0	101.0%	75	125				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

Date: 28-Feb-02

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS0_020205		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID:		0202003		Run ID: ICP_1_020208A				SeqNo: 47779			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.2215	0.008	0.2364	0	93.7%	75	125				
Barium	.2249	0.002	0.2364	0	95.1%	75	125				
Cadmium	.2273	0.001	0.2364	0	96.2%	75	125				
Chromium	.2286	0.028	0.2364	0	96.7%	75	125				
Lead	.2252	0.004	0.2364	0	95.3%	75	125				
Selenium	.2163	0.006	0.2364	0	91.5%	75	125				
Silver	.0574	0.001	0.0591	0	97.1%	75	125				

Sample ID: LCS0_020205		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID:		0202003		Run ID: ICP_1_020208A				SeqNo: 47780			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.2248	0.008	0.2384	0	94.3%	75	125	0.2215	1.5%	20	
Barium	.2274	0.002	0.2384	0	95.4%	75	125	0.2249	1.1%	20	
Cadmium	.2294	0.001	0.2384	0	96.2%	75	125	0.2273	0.9%	20	
Chromium	.2284	0.028	0.2384	0	95.8%	75	125	0.2286	0.1%	20	
Lead	.226	0.004	0.2384	0	94.8%	75	125	0.2252	0.4%	20	
Selenium	.2212	0.006	0.2384	0	92.8%	75	125	0.2163	2.2%	20	
Silver	.058	0.001	0.0596	0	97.3%	75	125	0.0574	1.0%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Blank

Sample ID: CCB_020208	Batch ID: 6010B_AQ-R-	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/08/2002		Prep Date: 02/05/2002					
Client ID: 0202003	Run ID: ICP_1_020208A			SeqNo: 47775							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.008	0	0	0.0%	0	0				
Barium	ND	0.002	0	0	0.0%	0	0				
Cadmium	ND	0.001	0	0	0.0%	0	0				
Chromium	ND	0.028	0	0	0.0%	0	0				
Lead	ND	0.004	0	0	0.0%	0	0				
Selenium	ND	0.006	0	0	0.0%	0	0				
Silver	ND	0.001	0	0	0.0%	0	0				

Sample ID: CCB2_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002			Prep Date: 02/05/2002	
Client ID:		0202003		Run ID: ICP_1_020208A				SeqNo: 47803				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	ND	0.008	0	0	0.0%	0	0	0				
Barium	ND	0.002	0	0	0.0%	0	0	0				
Cadmium	ND	0.001	0	0	0.0%	0	0	0				
Chromium	ND	0.028	0	0	0.0%	0	0	0				
Lead	ND	0.004	0	0	0.0%	0	0	0				
Selenium	ND	0.006	0	0	0.0%	0	0	0				
Silver	ND	0.001	0	0	0.0%	0	0	0				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
 Work Order: 0202003
 Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Blank

Sample ID: CCB3_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID: 0202003		Run ID: ICP_1_020208A		SeqNo: 47872							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.008	0	0	0.0%	0	0	0			
Barium	ND	0.002	0	0	0.0%	0	0	0			
Cadmium	ND	0.001	0	0	0.0%	0	0	0			
Chromium	ND	0.028	0	0	0.0%	0	0	0			
Lead	.0008	0.004	0	0	0.0%	0	0	0			
Selenium	ND	0.006	0	0	0.0%	0	0	0			J
Silver	ND	0.001	0	0	0.0%	0	0	0			

Sample ID: CCB4_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/05/2002	
Client ID: 0202003		Run ID: ICP_1_020208A		SeqNo: 47873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.008	0	0	0.0%	0	0	0			
Barium	ND	0.002	0	0	0.0%	0	0	0			
Cadmium	ND	0.001	0	0	0.0%	0	0	0			
Chromium	ND	0.028	0	0	0.0%	0	0	0			
Lead	.001	0.004	0	0	0.0%	0	0	0			
Selenium	ND	0.006	0	0	0.0%	0	0	0			J
Silver	ND	0.001	0	0	0.0%	0	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

Date: 28-Feb-02

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 01/28/2002	
Client ID:		0202003		Run ID: ICP_1_020208A		SeqNo: 47778					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.9947	0.008	1.018	0	97.7%	90	110				
Barium	.099	0.002	0.1018	0	97.2%	90	110				
Cadmium	.1983	0.001	0.2001	0	99.1%	90	110				
Chromium	.4916	0.028	0.5104	0	96.3%	90	110				
Lead	.9687	0.004	1	0	96.8%	90	110				
Selenium	.5003	0.006	0.509	0	98.3%	90	110				
Silver	.0501	0.001	0.0509	0	98.4%	90	110				

Sample ID: CCV2_020208	Batch ID: 6010B_AQ-R-	Test Code: SW6010B	Units: mg/L	Analysis Date: 02/08/2002	Prep Date: 01/28/2002						
Client ID:	0202003	Run ID: ICP_1_020208A		SeqNo: 47804							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.03	0.008	1.018	0	101.2%	90	110				
Barium	.1029	0.002	0.1018	0	101.1%	90	110				
Cadmium	.202	0.001	0.2001	0	100.9%	90	110				
Chromium	.5206	0.028	0.5104	0	102.0%	90	110				
Lead	.999	0.004	1	0	99.9%	90	110				
Selenium	.504	0.006	0.509	0	99.0%	90	110				
Silver	.0516	0.001	0.0509	0	101.4%	90	110				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 01/28/2002	
Client ID:		0202003		Run ID: ICP_1_020208A				SeqNo: 47805			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.025	0.008	1.018	0	100.7%	90	110				
Barium	.1041	0.002	0.1018	0	102.3%	90	110				
Cadmium	.2028	0.001	0.2001	0	101.3%	90	110				
Chromium	.5387	0.028	0.5104	0	105.5%	90	110				
Lead	.9968	0.004	1	0	99.6%	90	110				
Selenium	.5091	0.006	0.509	0	100.0%	90	110				
Silver	.0541	0.001	0.0509	0	106.3%	90	110				

Sample ID: CCV4_020208		Batch ID: 6010B_AQ-R-		Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 01/28/2002	
Client ID:		0202003		Run ID: ICP_1_020208A				SeqNo: 47806			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.01	0.008	1.018	0	99.2%	90	110				
Barium	.1035	0.002	0.1018	0	101.7%	90	110				
Cadmium	.1991	0.001	0.2001	0	99.5%	90	110				
Chromium	.5371	0.028	0.5104	0	105.2%	90	110				
Lead	.9794	0.004	1	0	97.9%	90	110				
Selenium	.5015	0.006	0.509	0	98.5%	90	110				
Silver	.0534	0.001	0.0509	0	104.9%	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Initial Calibration Verification Standard

Sample ID: ICV_020208		Batch ID: 6010B_AQ-R- Test Code: SW6010B		Units: mg/L		Analysis Date: 02/08/2002		Prep Date: 02/07/2002	
Client ID: 0202003		Run ID: ICP_1_020208A		SeqNo: 47777		HighLimit		RPDLimit	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Arsenic	.602	0.008	0.6441	0	93.5%	90	110		
Barium	.5915	0.002	0.6441	0	91.8%	90	110		
Cadmium	.5928	0.001	0.6441	0	92.0%	90	110		
Chromium	.5938	0.028	0.6441	0	92.2%	90	110		
Lead	.5909	0.004	0.6441	0	91.7%	90	110		
Selenium	.5962	0.006	0.6441	0	92.6%	90	110		
Silver	.1515	0.001	0.161	0	94.1%	90	110		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTeoh Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020205		Batch ID: GC-1_020205		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/05/2002		Prep Date: 02/05/2002		
Client ID:		0202003		Run ID:		GC-1_020205A		SeqNo: 47300				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		.0915	0.5									J
Ethylbenzene		.1083	0.5									J
m,p-Xylene		.2734	1									J
Methyl tert-Butyl Ether		ND	1									
o-Xylene		.1621	0.5									J
Toluene		.2481	0.5									J
1,4-Difluorobenzene		106.8	0									
4-Bromochlorobenzene		114.5	0									
Fluorobenzene		109	0									

Sample ID: MB_020211	Batch ID: GC-1_020211	Test Code: SW8021B	Units: µg/L	Analysis Date: 02/11/2002				Prep Date:			
Client ID:	0202003	Run ID: GC-1_020211A		SeqNo: 47585							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0653	0.5									J
Ethylbenzene	.0914	0.5									J
m,p-Xylene	.153	1									J
Methyl tert-Butyl Ether	.121	1									J
o-Xylene	.3372	0.5									J
Toluene	.2565	0.5									J
1,4-Difluorobenzene	106.7	0									J
4-Bromochlorobenzene	119.9	0									
Fluorobenzene	107.9	0									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT:

Work Order:

Project:

BioTech Remediation, Inc.

0202003

Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020212	Batch ID: GC-1_020212	Test Code: SW8021B	Units: µg/L	Analysis Date: 02/12/2002	Prep Date:
Client ID:	0202003	Run ID: GC-1_020212A		SeqNo: 47596	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	1217	0.5			
1,4-Difluorobenzene	107.6	0			
4-Bromochlorobenzene	115.9	0			
Fluorobenzene	109.8	0			

J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0201032-18AMS Batch ID: GC-1_020205 Test Code: SW8021B Units: µg/L Analysis Date: 02/05/2002 Prep Date: 02/05/2002
Client ID: 0202003 Run ID: GC-1_020205A SeqNo: 47301

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	28130	250	20000	8800	96.6%	70	130				
Ethylbenzene	20380	250	20000	590	99.0%	70	130				
m,p-Xylene	40800	500	40000	1000	99.5%	70	130				
Methyl tert-Butyl Ether	78840	500	20000	60000	94.2%	70	130				
o-Xylene	20000	250	20000	460	97.7%	70	130				
Toluene	20420	250	20000	1100	96.6%	70	130				
1,4-Difluorobenzene	52530	0	55000	0	95.5%	70	130				
4-Bromochlorobenzene	57630	0	55000	0	104.8%	70	130				
Fluorobenzene	53680	0	55000	0	97.6%	70	130				

Sample ID: 0201032-18AMSD Batch ID: GC-1_020205 Test Code: SW8021B Units: µg/L Analysis Date: 02/05/2002 Prep Date: 02/05/2002
Client ID: 0202003 Run ID: GC-1_020205A SeqNo: 47302

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27880	250	20000	8800	95.4%	70	130	28130	0.9%	15	
Ethylbenzene	20170	250	20000	590	97.9%	70	130	20380	1.0%	15	
m,p-Xylene	40440	500	40000	1000	98.6%	70	130	40800	0.9%	15	
Methyl tert-Butyl Ether	79280	500	20000	60000	96.4%	70	130	78840	0.6%	15	
o-Xylene	19740	250	20000	460	96.4%	70	130	20000	1.3%	15	
Toluene	20140	250	20000	1100	95.2%	70	130	20420	1.4%	15	
1,4-Difluorobenzene	52950	0	55000	0	96.3%	70	130	0	0.0%	0	
4-Bromochlorobenzene	57960	0	55000	0	105.4%	70	130	0	0.0%	0	
Fluorobenzene	53490	0	55000	0	97.3%	70	130	0	0.0%	0	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Prep Date:

Analysis Date: 02/11/2002

Units: µg/L

Batch ID: GC-1_020211 Test Code: SW8021B

Sample ID: 0202003-16AMS

SeqNo: 47586

Client ID: Air Stripper Influe 0202003 Run ID: GC-1_020211A

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	897.8	5	400	521.7	94.0%	70	130				
Ethylbenzene	756.2	5	400	363.1	98.3%	70	130				
m,p-Xylene	1542	10	800	743.6	99.8%	70	130				
Methyl tert-Butyl Ether	586.2	10	400	200.2	96.5%	70	130				
o-Xylene	500.6	5	400	114.1	96.6%	70	130				
Toluene	502.8	5	400	122.2	95.2%	70	130				
1,4-Difluorobenzene	1044	0	1100	0	94.9%	70	130				
4-Bromochlorobenzene	1187	0	1100	0	107.9%	70	130				
Fluorobenzene	1064	0	1100	0	96.7%	70	130				

Prep Date:

Analysis Date: 02/11/2002

Units: µg/L

Batch ID: GC-1_020211 Test Code: SW8021B

Sample ID: 0202003-16AMSD

SeqNo: 47587

Client ID: Air Stripper Influe 0202003 Run ID: GC-1_020211A

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	883	5	400	521.7	90.3%	70	130	897.8	1.7%	15	
Ethylbenzene	742.7	5	400	363.1	94.9%	70	130	756.2	1.8%	15	
m,p-Xylene	1514	10	800	743.6	96.2%	70	130	1542	1.8%	15	
Methyl tert-Butyl Ether	603.6	10	400	200.2	100.9%	70	130	586.2	2.9%	15	
o-Xylene	493.2	5	400	114.1	94.8%	70	130	500.6	1.5%	15	
Toluene	490.3	5	400	122.2	92.0%	70	130	502.8	2.5%	15	
1,4-Difluorobenzene	1043	0	1100	0	94.8%	70	130	0	0.0%	0	
4-Bromochlorobenzene	1182	0	1100	0	107.5%	70	130	0	0.0%	0	
Fluorobenzene	1060	0	1100	0	96.3%	70	130	0	0.0%	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-05AMS Batch ID: GC-1_020212 Test Code: SW8021B Units: µg/L Analysis Date: 02/12/2002 Prep Date:

Client ID: MW-19 0202003 Run ID: GC-1_020212A SeqNo: 47597

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	187.4	2.5	200	0.6197	93.4%	70	130				
Ethylbenzene	194.4	2.5	200	0.8553	96.8%	70	130				
m,p-Xylene	388.3	5	400	0	97.1%	70	130				
Methyl tert-Butyl Ether	735.6	5	200	542.1	96.7%	70	130				
o-Xylene	190.8	2.5	200	0.2514	95.3%	70	130				
Toluene	188.3	2.5	200	0.9085	93.7%	70	130				
1,4-Difluorobenzene	522.3	0	550	0	95.0%	70	130				
4-Bromochlorobenzene	606.2	0	550	0	110.2%	70	130				
Fluorobenzene	535.2	0	550	0	97.3%	70	130				

Sample ID: 0202003-05AMSD Batch ID: GC-1_020212 Test Code: SW8021B Units: µg/L Analysis Date: 02/12/2002 Prep Date:

Client ID: MW-19 0202003 Run ID: GC-1_020212A SeqNo: 47598

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	184.5	2.5	200	0.6197	91.9%	70	130	187.4	1.6%	15	
Ethylbenzene	191.5	2.5	200	0.8553	95.3%	70	130	194.4	1.5%	15	
m,p-Xylene	382.7	5	400	0	95.7%	70	130	388.3	1.4%	15	
Methyl tert-Butyl Ether	731.2	5	200	542.1	94.5%	70	130	735.6	0.6%	15	
o-Xylene	188.1	2.5	200	0.2514	93.9%	70	130	190.8	1.4%	15	
Toluene	185.4	2.5	200	0.9085	92.2%	70	130	188.3	1.6%	15	
1,4-Difluorobenzene	521.2	0	550	0	94.8%	70	130	0	0.0%	0	
4-Bromochlorobenzene	603.5	0	550	0	109.7%	70	130	0	0.0%	0	
Fluorobenzene	535.4	0	550	0	97.4%	70	130	0	0.0%	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020205		Batch ID: GC-1_020205		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/05/2002			Prep Date: 02/05/2002		
Client ID:		0202003		Run ID:		GC-1_020205A		SeqNo: 47299					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	38	0.5	40	0.0915	94.8%	80	120						
Ethylbenzene	39.1	0.5	40	0.1083	97.5%	80	120						
m,p-Xylene	78.74	1	80	0.2734	98.1%	80	120						
Methyl tert-Butyl Ether	38.1	1	40	0	95.2%	80	120						
o-Xylene	38.47	0.5	40	0.1621	95.8%	80	120						
Toluene	37.88	0.5	40	0.2481	94.1%	80	120						
1,4-Difluorobenzene	106.4	0	110	0	96.7%	70	130						
4-Bromochlorobenzene	115.2	0	110	0	104.7%	70	130						
Fluorobenzene	107.4	0	110	0	97.6%	70	130						

Sample ID: LCS_020211		Batch ID: GC-1_020211		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/11/2002			Prep Date:	
Client ID:		0202003		Run ID:		GC-1_020211A		SeqNo: 47584				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	38.91	0.5	40	0.0653	97.1%	80	120					
Ethylbenzene	39.9	0.5	40	0.0914	99.5%	80	120					
m,p-Xylene	80.02	1	80	0.153	99.8%	80	120					
Methyl tert-Butyl Ether	40.89	1	40	0.121	101.9%	80	120					
o-Xylene	39.28	0.5	40	0.3372	97.3%	80	120					
Toluene	38.36	0.5	40	0.2565	95.3%	80	120					
1,4-Difluorobenzene	105.4	0	110	0	95.8%	70	130					
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130					
Fluorobenzene	107.1	0	110	0	97.4%	70	130					

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 2

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020212		Batch ID: GC-1_020212		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/12/2002		Prep Date:	
Client ID:		0202003		Run ID: GC-1_020212A				SeqNo: 47595			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.17	0.5	40	0	95.4%	80	120				
Ethylbenzene	39.25	0.5	40	0	98.1%	80	120				
m,p-Xylene	78.7	1	80	0	98.4%	80	120				
Methyl tert-Butyl Ether	40.26	1	40	0	100.7%	80	120				
o-Xylene	38.46	0.5	40	0	96.1%	80	120				
Toluene	37.7	0.5	40	0.1217	93.9%	80	120				
1,4-Difluorobenzene	106.2	0	110	0	96.6%	70	130				
4-Bromochlorobenzene	126.3	0	110	0	114.8%	70	130				
Fluorobenzene	107.9	0	110	0	98.1%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020205 Batch ID: GC-1_020205 Test Code: SW8021B Units: µg/L Analysis Date: 02/05/2002 Prep Date: 02/05/2002
Client ID: 0202003 Run ID: GC-1_020205A SeqNo: 47296

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.49	0.5	20	0	97.5%	85	115				
Ethylbenzene	20.01	0.5	20	0	100.1%	85	115				
m,p-Xylene	40.66	1	40	0	101.7%	85	115				
Methyl tert-Butyl Ether	19.48	1	20	0	97.4%	85	115				
o-Xylene	19.74	0.5	20	0	98.7%	85	115				
Toluene	19.42	0.5	20	0	97.1%	85	115				
1,4-Difluorobenzene	106.9	0	110	0	97.2%	70	130				
4-Bromochlorobenzene	115.2	0	110	0	104.7%	70	130				
Fluorobenzene	108.7	0	110	0	98.8%	70	130				

Sample ID: CCV2_020205 Batch ID: GC-1_020205 Test Code: SW8021B Units: µg/L Analysis Date: 02/05/2002 Prep Date: 02/05/2002
Client ID: 0202003 Run ID: GC-1_020205A SeqNo: 47297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.28	0.5	20	0	96.4%	85	115				
Ethylbenzene	19.66	0.5	20	0	98.3%	85	115				
m,p-Xylene	39.71	1	40	0	99.3%	85	115				
Methyl tert-Butyl Ether	19.13	1	20	0	95.7%	85	115				
o-Xylene	19.3	0.5	20	0	96.5%	85	115				
Toluene	19.21	0.5	20	0	96.1%	85	115				
1,4-Difluorobenzene	106.3	0	110	0	96.6%	70	130				
4-Bromochlorobenzene	115.6	0	110	0	105.1%	70	130				
Fluorobenzene	108.8	0	110	0	98.9%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_020205		Batch ID: GC-1_020205		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/05/2002			Prep Date: 02/05/2002		
Client ID:		0202003		Run ID:		GC-1_020205A		SeqNo: 47298					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	38.22	0.5	40	0	95.6%	85	115						
Ethylbenzene	39.71	0.5	40	0	99.3%	85	115						
m,p-Xylene	79.17	1	80	0	99.0%	85	115						
Methyl tert-Butyl Ether	38.07	1	40	0	95.2%	85	115						
o-Xylene	38.68	0.5	40	0	96.7%	85	115						
Toluene	38.24	0.5	40	0	95.6%	85	115						
1,4-Difluorobenzene	105.2	0	110	0	95.7%	70	130						
4-Bromochlorobenzene	114	0	110	0	103.6%	70	130						
Fluorobenzene	106.9	0	110	0	97.2%	70	130						

Sample ID: CCV1_020211		Batch ID: GC-1_020211		Test Code: SW8021B		Units: µg/L		Analysis Date: 02/11/2002			Prep Date:	
Client ID:		0202003		Run ID: GC-1_020211A				SeqNo: 47581				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	19.73	0.5	20	0	98.7%	85	115					
Ethylbenzene	20.16	0.5	20	0	100.8%	85	115					
m,p-Xylene	40.61	1	40	0	101.5%	85	115					
Methyl tert-Butyl Ether	20.94	1	20	0	104.7%	85	115					
o-Xylene	19.95	0.5	20	0	99.7%	85	115					
Toluene	19.49	0.5	20	0	97.5%	85	115					
1,4-Difluorobenzene	106.5	0	110	0	96.8%	70	130					
4-Bromochlorobenzene	119.4	0	110	0	108.6%	70	130					
Fluorobenzene	107.4	0	110	0	97.6%	70	130					

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2_020211 Batch ID: GC-1_020211 Test Code: SW8021B Units: µg/L Analysis Date: 02/11/2002 Prep Date:

Client ID: 0202003 Run ID: GC-1_020211A SeqNo: 47582

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.24	0.5	20	0	96.2%	85	115				
Ethylbenzene	19.67	0.5	20	0	98.4%	85	115				
m,p-Xylene	39.42	1	40	0	98.6%	85	115				
Methyl tert-Butyl Ether	20.69	1	20	0	103.5%	85	115				
o-Xylene	19.36	0.5	20	0	96.8%	85	115				
Toluene	18.97	0.5	20	0	94.9%	85	115				
1,4-Difluorobenzene	106.4	0	110	0	96.8%	70	130				
4-Bromochlorobenzene	119.6	0	110	0	108.7%	70	130				
Fluorobenzene	107.7	0	110	0	97.9%	70	130				

Sample ID: CCV3_020211 Batch ID: GC-1_020211 Test Code: SW8021B Units: µg/L Analysis Date: 02/11/2002 Prep Date:

Client ID: 0202003 Run ID: GC-1_020211A SeqNo: 47583

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.86	0.5	40	0	94.7%	85	115				
Ethylbenzene	38.64	0.5	40	0	96.6%	85	115				
m,p-Xylene	77.37	1	80	0	96.7%	85	115				
Methyl tert-Butyl Ether	40.27	1	40	0	100.7%	85	115				
o-Xylene	38.01	0.5	40	0	95.0%	85	115				
Toluene	37.34	0.5	40	0	93.3%	85	115				
1,4-Difluorobenzene	106	0	110	0	96.3%	70	130				
4-Bromochlorobenzene	119.3	0	110	0	108.5%	70	130				
Fluorobenzene	107.1	0	110	0	97.4%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV4_020211 Batch ID: GC-1_020211 Test Code: SW8021B Units: µg/L Analysis Date: 02/11/2002 Prep Date:

Client ID: 0202003 Run ID: GC-1_020211A SeqNo: 47588

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.9	0.5	40	0	92.3%	85	115				
Ethylbenzene	37.38	0.5	40	0	93.5%	85	115				
m,p-Xylene	74.67	1	80	0	93.3%	85	115				
Methyl tert-Butyl Ether	39.87	1	40	0	99.7%	85	115				
o-Xylene	37.08	0.5	40	0	92.7%	85	115				
Toluene	36.26	0.5	40	0	90.6%	85	115				
1,4-Difluorobenzene	105.7	0	110	0	96.1%	70	130				
4-Bromochlorobenzene	119	0	110	0	108.2%	70	130				
Fluorobenzene	107.6	0	110	0	97.9%	70	130				

Sample ID: CCV1_020212 Batch ID: GC-1_020212 Test Code: SW8021B Units: µg/L Analysis Date: 02/12/2002 Prep Date:

Client ID: 0202003 Run ID: GC-1_020212A SeqNo: 47593

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.94	0.5	20	0	99.7%	85	115				
Ethylbenzene	20.35	0.5	20	0	101.8%	85	115				
m,p-Xylene	41.07	1	40	0	102.7%	85	115				
Methyl tert-Butyl Ether	20.78	1	20	0	103.9%	85	115				
o-Xylene	19.93	0.5	20	0	99.7%	85	115				
Toluene	19.65	0.5	20	0	98.3%	85	115				
1,4-Difluorobenzene	106.7	0	110	0	97.0%	70	130				
4-Bromochlorobenzene	118.9	0	110	0	108.1%	70	130				
Fluorobenzene	108.4	0	110	0	98.5%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of 5

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2_020212	Batch ID: GC-1_020212	Test Code: SW8021B	Units: µg/L	Analysis Date: 02/12/2002		Prep Date:					
Client ID:	0202003	Run ID: GC-1_020212A		SeqNo: 47594							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.59	0.5	20	0	98.0%	85	115				
Ethylbenzene	19.94	0.5	20	0	99.7%	85	115				
m,p-Xylene	40.26	1	40	0	100.6%	85	115				
Methyl tert-Butyl Ether	20.7	1	20	0	103.5%	85	115				
o-Xylene	19.59	0.5	20	0	98.0%	85	115				
Toluene	19.27	0.5	20	0	96.4%	85	115				
1,4-Difluorobenzene	106.9	0	110	0	97.2%	70	130				
4-Bromochlorobenzene	119	0	110	0	108.2%	70	130				
Fluorobenzene	108.3	0	110	0	98.4%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0201032-02A	98	105	99.6
0201032-03A	97.6	105	99.5
0201032-04A	94.8	102	97
0201032-05A	98.2	106	99.3
0201032-06A	97.4	105	99.4
0201032-07A	96.8	103	99.6
0201032-08A	97.6	105	99.9
0201032-09A	99.9	110	101
0201032-10A	95.5	104	98
0201032-11A	98.1	106	99.9
0201032-12A	98	105	101
0201032-13A	97.2	105	110
0201032-14A	97.6	105	99.4
0201032-15A	96.6	106	99.6
0201032-16A	95.5	130	99.2
0201032-17A	97.1	102	99.1
0201032-18A	96.4	105	98.3
0201032-18AMS	95.5	105	97.6
0201032-18AMSD	96.3	105	97.2
0201035-01A	94.5	134 *	96.6
0202003-01A	96.5	104	98.7
0202003-02A	95.3	103	97
0202003-03A	96.6	108	98.2
0202003-04A	97	109	99.2
0202003-05A	96.6	110	98.2
0202003-05AMS	95	110	97.3
0202003-05AMSD	94.8	110	97.4

Acronym**Surrogate****QC Limits**

14FBZ

= 1,4-Difluorobenzene

70-130

4BCBZ

= 4-Bromochlorobenzene

70-130

FLBZ

= Fluorobenzene

70-130

* Surrogate recovery outside acceptance limits

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0202003-06A	95.9	107	98.6					
0202003-07A	97.1	108	98.8					
0202003-08A	96.5	113	98.8					
0202003-09A	97.6	115	99					
0202003-10A	97	112	98.9					
0202003-11A	98	110	99.7					
0202003-12A	97.5	110	99.3					
0202003-13A	97.1	109	99					
0202003-14A	97.2	109	99.2					
0202003-15A	95.3	113	97.8					
0202003-16A	96.1	108	97.4					
0202003-16AMS	94.9	108	96.7					
0202003-16AMSD	94.8	107	96.3					
0202003-17A	97.3	108	98.9					
0202003-18A	97	104	99.9					
0202006-01A	94.1	107	97					
0202006-02A	91	103	93.8					
0202006-03A	96.9	109	98.8					
CCV1_020205	97.2	105	98.8					
CCV1_020211	96.8	108	97.6					
CCV1_020212	97	108	98.5					
CCV2_020205	96.6	105	98.9					
CCV2_020211	96.8	109	97.9					
CCV2_020212	97.2	108	98.4					
CCV3_020205	95.7	104	97.2					
CCV3_020211	96.3	108	97.4					
CCV4_020211	96.1	108	97.9					
LCS_020205	96.7	105	97.6					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

CLIENT: BioTech Remediation, Inc.
Work Order: 0202003
Project: Thriftway Refinery; Bloomfield, NM
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
LCS_020211	95.8	109	97.4
LCS_020212	96.6	115	98.1
MB_020205	97.1	104	99.1
MB_020211	97	109	98.1
MB_020212	97.8	105	99.9

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MBLK_020204	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID:	0202003	Run ID: AA_020204A		SeqNo: 47501	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	ND	0.001			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0201007-02AD	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID:	0202003	Run ID: AA_020204A		SeqNo: 47507	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	ND	0.001	0	0	0 0 0.0% 20
Sample ID: 0202003-13BD	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: MW-15	0202003	Run ID: AA_020204A		SeqNo: 47524	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	ND	0.001	0	0	0 0 0.0% 20

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202003-01BMS	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: MW-18	0202003	Run ID: AA_020204A		SeqNo: 47510	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.01417	0.001	0.014	0	101.2% 70 130

Sample ID: 0202003-01BMSD	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: MW-18	0202003	Run ID: AA_020204A		SeqNo: 47511	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.01423	0.001	0.014	0	101.6% 70 130 0.01417 0.4% 20

Sample ID: 0202003-14BMS	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: MW-13	0202003	Run ID: AA_020204A		SeqNo: 47526	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.0139	0.001	0.014	0	99.3% 70 130

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020204		Batch ID: HG_CTW-02/		Test Code: SW7470		Units: mg/L		Analysis Date: 02/04/2002				Prep Date: 02/04/2002	
Client ID:		0202003		Run ID: AA_020204A				SeqNo: 47503					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		.03388	0.001	0.029	0	116.8%	70	130					

Sample ID: LCSD_020204		Batch ID: HG_CTW-02/		Test Code: SW7470		Units: mg/L		Analysis Date: 02/04/2002				Prep Date: 02/04/2002	
Client ID:		0202003		Run ID: AA_020204A				SeqNo: 47504					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		.02874	0.001	0.03	0	95.8%	70	130	0.03388	16.4%	20		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020204	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: 0202003	Run ID: AA_020204A			SeqNo: 47502	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.03038	0.001	0.0299	0	101.6% 80 120
Sample ID: CCV2_020204	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: 0202003	Run ID: AA_020204A			SeqNo: 47530	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.02749	0.001	0.03	0	91.6% 80 120
Sample ID: CCV3_020204	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: 0202003	Run ID: AA_020204A			SeqNo: 47531	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.03229	0.001	0.03	0	107.6% 80 120
Sample ID: CCV4_020204	Batch ID: HG_CTW-02/	Test Code: SW7470	Units: mg/L	Analysis Date: 02/04/2002	Prep Date: 02/04/2002
Client ID: 0202003	Run ID: AA_020204A			SeqNo: 48047	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.03092	0.001	0.03	0	103.1% 80 120

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: API_0202003	Test Code: E160.1	Units: mg/L	Analysis Date: 02/06/2002	Prep Date:
Client ID:	0202003	Run ID:	WET CHEM_020206A	SeqNo: 47255	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	28	40			J

Sample ID: MBlank	Batch ID: API_0202003	Test Code: E160.1	Units: mg/L	Analysis Date: 02/07/2002	Prep Date:
Client ID:	0202003	Run ID:	WET CHEM_020207A	SeqNo: 47311	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	26	40			J

Sample ID: MBlank	Batch ID: API_0202003	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 02/09/2002	Prep Date:
Client ID:	0202003	Run ID:	WET CHEM_020209A	SeqNo: 47356	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Bicarbonate (As CaCO3)	3.2	5			J
Alkalinity, Carbonate (As CaCO3)	ND	5			
Alkalinity, Hydroxide	ND	5			
Alkalinity, Total (As CaCO3)	3.2	5			J

Sample ID: MBlank	Batch ID: API_0202003	Test Code: E120.1	Units: uS/cm	Analysis Date: 02/14/2002	Prep Date:
Client ID:	0202003	Run ID:	WET CHEM_020214A	SeqNo: 47649	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	ND	2			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 28-Feb-02

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0202002-01AD	Batch ID: API_0202003	Test Code: E160.1	Units: mg/L	Analysis Date: 02/07/2002	Prep Date:
Client ID: 0202003	Run ID: WET CHEM_020207A	SeqNo: 47322			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	14960	40	0	0	14820 0.9% 8

Sample ID: 0202003-01CD	Batch ID: API_0202003	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 02/09/2002	Prep Date:
Client ID: MW-18	Run ID: WET CHEM_020209A	SeqNo: 47359			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Bicarbonate (As CaCO3)	1336	5	0	0	1330 0.5% 6
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0 0.0% 6
Alkalinity, Hydroxide	ND	5	0	0	0 0.0% 6
Alkalinity, Total (As CaCO3)	1336	5	0	0	1330 0.5% 6

Sample ID: 0202003-02CD	Batch ID: API_0202003	Test Code: E160.1	Units: mg/L	Analysis Date: 02/06/2002	Prep Date:
Client ID: MW-09	Run ID: WET CHEM_020206A	SeqNo: 47259			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3160	40	0	0	3168 0.3% 8

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 28-Feb-02

QC SUMMARY REPORT

Laboratory Control Spike - generic

Laboratory Control Spike - generic

Sample ID: LCS 3047		Batch ID: API_0202003		Test Code: E160.1		Units: mg/L		Analysis Date: 02/06/2002		Prep Date:	
Client ID:		0202003		Run ID: WET CHEM_020206A				SeqNo: 47256			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		266	40	316	28	75.3%	75	125			
Sample ID: LCS 3047		Batch ID: API_0202003		Test Code: E160.1		Units: mg/L		Analysis Date: 02/07/2002		Prep Date:	
Client ID:		0202003		Run ID: WET CHEM_020207A				SeqNo: 47312			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		304	40	316	26	88.0%	75	125			
Sample ID: LCS 3048		Batch ID: API_0202003		Test Code: E150.1		Units: pH units		Analysis Date: 02/04/2002		Prep Date:	
Client ID:		0202003		Run ID: WET CHEM_020204B				SeqNo: 47164			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		8.119	2	8.17	0	99.4%	90	110			
Sample ID: LCS 3048		Batch ID: API_0202003		Test Code: E150.1		Units: pH units		Analysis Date: 02/04/2002		Prep Date:	
Client ID:		0202003		Run ID: WET CHEM_020204B				SeqNo: 47175			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		8.15	2	8.17	0	99.8%	90	110			
Sample ID: LCS 3048		Batch ID: API_0202003		Test Code: E150.1		Units: pH units		Analysis Date: 02/04/2002		Prep Date:	
Client ID:		0202003		Run ID: WET CHEM_020204B				SeqNo: 47184			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		8.126	2	8.17	0	99.5%	90	110			

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: BioTech Remediation, Inc.

Work Order: 0202003

Project: Thriftway Refinery; Bloomfield, NM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS 3049	Batch ID: API_0202003	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 02/09/2002	Prep Date:
Client ID:	0202003	Run ID: WET CHEM_020209A		SeqNo: 47357	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	184	5	185	3	97.8% 96 101
Sample ID: LCS 3049	Batch ID: API_0202003	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 02/09/2002	Prep Date:
Client ID:	0202003	Run ID: WET CHEM_020209A		SeqNo: 47368	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	184	5	185	3	97.8% 96 101
Sample ID: LCS 3049	Batch ID: API_0202003	Test Code: E120.1	Units: uS/cm	Analysis Date: 02/14/2002	Prep Date:
Client ID:	0202003	Run ID: WET CHEM_020214A		SeqNo: 47650	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	742	2	738	0	100.5% 90 110
Sample ID: LCS 3049	Batch ID: API_0202003	Test Code: E120.1	Units: uS/cm	Analysis Date: 02/14/2002	Prep Date:
Client ID:	0202003	Run ID: WET CHEM_020214A		SeqNo: 47661	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	744	2	738	0	100.8% 90 110
Sample ID: LCS 3049	Batch ID: API_0202003	Test Code: E120.1	Units: uS/cm	Analysis Date: 02/14/2002	Prep Date:
Client ID:	0202003	Run ID: WET CHEM_020214A		SeqNo: 47669	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	742	2	738	0	100.5% 90 110

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

2/ 9/02

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project

. The Laboratory Project number is 270579.

An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
0202003-01D	02-A17239	1/30/02
0202003-02D	02-A17240	1/30/02
0202003-03D	02-A17241	1/30/02
0202003-04D	02-A17242	1/30/02
0202003-05D	02-A17243	1/31/02
0202003-06D	02-A17244	1/31/02
0202003-07D	02-A17245	1/31/02
0202003-08D	02-A17246	1/31/02
0202003-09D	02-A17247	1/31/02
0202003-10D	02-A17248	1/31/02
0202003-11D	02-A17249	1/31/02
0202003-12D	02-A17250	1/31/02
0202003-13D	02-A17251	1/31/02
0202003-14D	02-A17252	1/31/02
0202003-15D	02-A17253	1/31/02
0202003-16D	02-A17254	1/31/02
0202003-17D	02-A17255	1/31/02

TestAmerica

INCORPORATED

Page 2

Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By:



Report Date: 2/ 9/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Jennifer P. Flynn, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17239
Sample ID: 0202003-01d
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Thriftway Refinery; MW-18

Date Collected: 1/30/02
Time Collected: 14:18
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Fluoranthene	0.00700	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Pyrene	0.00500	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522
Phenanthrene	0.0140	mg/l	0.00500	1	2/ 8/02	18:54	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	990. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17239
Sample ID: 0202003-01D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	84.	24. - 128.
BNA Surr-2-Fluorobiphenyl	84.	33. - 118.
BNA Surr-Terphenyl-d14	94.	27. - 142.
BNA Surr-Phenol-d5	41.	1. - 72.
BNA Surr-2-Fluorophenol	57.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	101.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17240
Sample ID: 0202003-02D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/30/02
Time Collected: 13:59
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-09

NS
2/28/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	19:30	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17240
Sample ID: 0202003-02D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	81.	24. - 128.
BNA Surr-2-Fluorobiphenyl	81.	33. - 118.
BNA Surr-Terphenyl-d14	95.	27. - 142.
BNA Surr-Phenol-d5	52.	1. - 72.
BNA Surr-2-Fluorophenol	74.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	118.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17241
Sample ID: 0202003-03D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/30/02
Time Collected: 15:23
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-05

2/25/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	20:07	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17241
Sample ID: 0202003-03D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	85.	24. - 128.
BNA Surr-2-Fluorobiphenyl	84.	33. - 118.
BNA Surr-Terphenyl-d14	104.	27. - 142.
BNA Surr-Phenol-d5	53.	1. - 72.
BNA Surr-2-Fluorophenol	77.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	122.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17242
Sample ID: 0202003-04D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/30/02
Time Collected: 15:47
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-06

2/5/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	20:43	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	990. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17242
Sample ID: 0202003-04D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	85.	24. - 128.
BNA Surr-2-Fluorobiphenyl	86.	33. - 118.
BNA Surr-Terphenyl-d14	108.	27. - 142.
BNA Surr-Phenol-d5	53.	1. - 72.
BNA Surr-2-Fluorophenol	75.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	127.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17243
Sample ID: 0202003-05D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 9:25
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-19

2/25/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	21:19	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	990. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17243
Sample ID: 0202003-05D
Project:
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
BNA Surr-Nitrobenzene-d5	91.	24. - 128.
BNA Surr-2-Fluorobiphenyl	86.	33. - 118.
BNA Surr-Terphenyl-d14	90.	27. - 142.
BNA Surr-Phenol-d5	58.	1. - 72.
BNA Surr-2-Fluorophenol	82.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	119.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17244
Sample ID: 0202003-06D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 9:47
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-20

2/28/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Acenaphthene	0.0310	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Fluoranthene	0.00600	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Fluorene	0.0140	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	21:56	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	990. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17244
Sample ID: 0202003-06D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	98.	24. - 128.
BNA Surr-2-Fluorobiphenyl	91.	33. - 118.
BNA Surr-Terphenyl-d14	107.	27. - 142.
BNA Surr-Phenol-d5	74. #	1. - 72.
BNA Surr-2-Fluorophenol	102. #	1. - 99.
BNA Surr-2,4,6-Tribromophenol	140.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17245
Sample ID: 0202003-07D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 10:07
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-21

2/25/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	22:32	LMcDaniel	8270C	2522

8270 surrogates outside QC limits due to sample matrix.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17245
 Sample ID: 0202003-07D
 Project:
 Page 2

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	107.	24. - 128.
BNA Surr-2-Fluorobiphenyl	101.	33. - 118.
BNA Surr-Terphenyl-d14	112.	27. - 142.
BNA Surr-Phenol-d5	66.	1. - 72.
BNA Surr-2-Fluorophenol	91.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	154.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17246
Sample ID: 0202003-08D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 10:26
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-22

2/28/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	23:09	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17246
Sample ID: 0202003-08D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	94.	24. - 128.
BNA Surr-2-Fluorobiphenyl	93.	33. - 118.
BNA Surr-Terphenyl-d14	104.	27. - 142.
BNA Surr-Phenol-d5	55.	1. - 72.
BNA Surr-2-Fluorophenol	78.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	143.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17247
Sample ID: 0202003-09D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 10:42
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-08

2/25/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 8/02	23:45	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	975. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17247
Sample ID: 0202003-09D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	92.	24. - 128.
BNA Surr-2-Fluorobiphenyl	91.	33. - 118.
BNA Surr-Terphenyl-d14	86.	27. - 142.
BNA Surr-Phenol-d5	55.	1. - 72.
BNA Surr-2-Fluorophenol	76.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	127.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17248
Sample ID: 0202003-10D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 11:02
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-10

2/24/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	0:22	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	975. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17248
Sample ID: 0202003-10D
Project:
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
BNA Surr-Nitrobenzene-d5	98.	24. - 128.
BNA Surr-2-Fluorobiphenyl	97.	33. - 118.
BNA Surr-Terphenyl-d14	105.	27. - 142.
BNA Surr-Phenol-d5	54.	1. - 72.
BNA Surr-2-Fluorophenol	76.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	127.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17249
Sample ID: 0202003-11D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 11:02
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-10 Dup

22x62

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	0:58	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	985. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17249
Sample ID: 0202003-11D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	83.	24. - 128.
BNA Surr-2-Fluorobiphenyl	83.	33. - 118.
BNA Surr-Terphenyl-d14	91.	27. - 142.
BNA Surr-Phenol-d5	43.	1. - 72.
BNA Surr-2-Fluorophenol	63.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	103.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17250
Sample ID: 0202003-12D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 11:21
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-11

2/25/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	1:35	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNAs	985. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17250
Sample ID: 0202003-12D
Project:
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
BNA Surr-Nitrobenzene-d5	94.	24. - 128.
BNA Surr-2-Fluorobiphenyl	92.	33. - 118.
BNA Surr-Terphenyl-d14	103.	27. - 142.
BNA Surr-Phenol-d5	58.	1. - 72.
BNA Surr-2-Fluorophenol	79.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	125.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17251
Sample ID: 0202003-13D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 11:42
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-15

Lab 102

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	2:12	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNAs	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17251
Sample ID: 0202003-13D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	96.	24. - 128.
BNA Surr-2-Fluorobiphenyl	91.	33. - 118.
BNA Surr-Terphenyl-d14	80.	27. - 142.
BNA Surr-Phenol-d5	53.	1. - 72.
BNA Surr-2-Fluorophenol	77.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	119.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17252
Sample ID: 0202003-14D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 14:30
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-13

2/26/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	2:48	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNAs	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17252
Sample ID: 0202003-14D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	86.	24. - 128.
BNA Surr-2-Fluorobiphenyl	85.	33. - 118.
BNA Surr-Terphenyl-d14	97.	27. - 142.
BNA Surr-Phenol-d5	42.	1. - 72.
BNA Surr-2-Fluorophenol	61.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	102.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17253
Sample ID: 0202003-15D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 14:52
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; MW-12

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	0.0720	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Anthracene	0.00700	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Fluoranthene	0.0330	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Fluorene	0.0180	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Pyrene	0.0210	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522
Phenanthrene	0.0670	mg/l	0.00500	1	2/ 9/02	3:25	LMcDaniel	8270C	2522

8270 surrogate outside QC limit due to sample matrix.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17253
 Sample ID: 0202003-15D
 Project:
 Page 2

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	98.	24. - 128.
BNA Surr-2-Fluorobiphenyl	68.	33. - 118.
BNA Surr-Terphenyl-d14	108.	27. - 142.
BNA Surr-Phenol-d5	53.	1. - 72.
BNA Surr-2-Fluorophenol	73.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	160. #	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17254
Sample ID: 0202003-16D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 15:19
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; Air Stripper Influent

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	0.0630	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Fluorene	0.0100	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	4:01	LMcDaniel	8270C	2522

8270 surrogate outside QC limits due to sample matrix.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17254
 Sample ID: 0202003-16D
 Project:
 Page 2

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Surrogate	% Recovery	Target Range
BNA Surr-Nitrobenzene-d5	84.	24. - 128.
BNA Surr-2-Fluorobiphenyl	76.	33. - 118.
BNA Surr-Terphenyl-d14	96.	27. - 142.
BNA Surr-Phenol-d5	43.	1. - 72.
BNA Surr-2-Fluorophenol	7.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	124.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17255
Sample ID: 0202003-17D
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 1/31/02
Time Collected: 15:25
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Thriftway Refinery; Air Stripper Effluent

2/28/02

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Naphthalene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Acenaphthene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Fluorene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Benzo(a)anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Benzo(a)pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Benzo(b)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Benzo(k)fluoranthene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Chrysene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Dibenzo(a,h)anthracene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Acenaphthylene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Benzo(g,h,i)perylene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522
Phenanthrene	ND	mg/l	0.00500	1	2/ 9/02	4:37	LMcDaniel	8270C	2522

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	2/ 5/02		D.Yeager	3510/625

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A17255
Sample ID: 0202003-17D
Project:
Page 2

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-Nitrobenzene-d5	97.	24. - 128.
BNA Surr-2-Fluorobiphenyl	89.	33. - 118.
BNA Surr-Terphenyl-d14	104.	27. - 142.
BNA Surr-Phenol-d5	56.	1. - 72.
BNA Surr-2-Fluorophenol	79.	1. - 99.
BNA Surr-2,4,6-Tribromophenol	126.	45. - 157.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike
-----	-----	-----	-----	-----	-----	-----	-----	-----
UST ANALYSIS								
Naphthalene	mg/l	< 0.00100	0.0310	0.0500	62	51. - 122.	2522	blank
Acenaphthene	mg/l	< 0.00100	0.0350	0.0500	70	52. - 126.	2522	blank
Anthracene	mg/l	< 0.00100	0.0450	0.0500	90	55. - 129.	2522	blank
Fluoranthene	mg/l	< 0.00100	0.0470	0.0500	94	55. - 133.	2522	blank
Fluorene	mg/l	< 0.00100	0.0380	0.0500	76	53. - 131.	2522	blank
Pyrene	mg/l	< 0.00100	0.0490	0.0500	98	52. - 134.	2522	blank
Benzo(a)anthracene	mg/l	< 0.00100	0.0480	0.0500	96	53. - 135.	2522	blank
Benzo(a)pyrene	mg/l	< 0.00100	0.0480	0.0500	96	54. - 137.	2522	blank
Benzo(b)fluoranthene	mg/l	< 0.00100	0.0390	0.0500	78	44. - 138.	2522	blank
Benzo(k)fluoranthene	mg/l	< 0.00100	0.0510	0.0500	102	52. - 142.	2522	blank
Chrysene	mg/l	< 0.00100	0.0490	0.0500	98	52. - 142.	2522	blank
Dibenzo(a,h)anthracene	mg/l	< 0.00200	0.0490	0.0500	98	31. - 155.	2522	blank
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00200	0.0460	0.0500	92	30. - 154.	2522	blank
Acenaphthylene	mg/l	< 0.00100	0.0350	0.0500	70	52. - 129.	2522	blank
Benzo(g,h,i)perylene	mg/l	< 0.00200	0.0520	0.0500	104	21. - 165.	2522	blank
Phenanthrene	mg/l	< 0.00100	0.0430	0.0500	86	54. - 128.	2522	blank
BNA Surr-Nitrobenzene-d5	% Rec				79	24. - 128.	2522	
BNA Surr-2-Fluorobiphenyl	% Rec				78	33. - 118.	2522	
BNA Surr-Terphenyl-d14	% Rec				104	27. - 142.	2522	
BNA Surr-Phenol-d5	% Rec				54	1. - 72.	2522	
BNA Surr-2-Fluorophenol	% Rec				74	1. - 99.	2522	
BNA Surr-2,4,6-Tribromopheno	% Rec				112	45. - 157.	2522	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
UST PARAMETERS						
Naphthalene	mg/l	0.0310	0.0320	3.17	41.	2522
Acenaphthene	mg/l	0.0350	0.0360	2.82	40.	2522

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 2

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Anthracene	mg/l	0.0450	0.0460	2.20	40.	2522
Fluoranthene	mg/l	0.0470	0.0480	2.11	40.	2522
Fluorene	mg/l	0.0380	0.0390	2.60	40.	2522
Pyrene	mg/l	0.0490	0.0490	0.00	41.	2522
Benzo(a)anthracene	mg/l	0.0480	0.0490	2.06	41.	2522
Benzo(a)pyrene	mg/l	0.0480	0.0480	0.00	43.	2522
Benzo(b)fluoranthene	mg/l	0.0390	0.0390	0.00	42.	2522
Benzo(k)fluoranthene	mg/l	0.0510	0.0510	0.00	41.	2522
Chrysene	mg/l	0.0490	0.0500	2.02	40.	2522
Dibenzo(a,h)anthracene	mg/l	0.0490	0.0490	0.00	45.	2522
Indeno(1,2,3-cd)pyrene	mg/l	0.0460	0.0460	0.00	44.	2522
Acenaphthylene	mg/l	0.0350	0.0360	2.82	41.	2522
Benzo(g,h,i)perylene	mg/l	0.0520	0.0520	0.00	45.	2522
Phenanthrene	mg/l	0.0430	0.0450	4.55	39.	2522
BNA Surr-Nitrobenzene-d5	% Rec		79.			2522
BNA Surr-2-Fluorobiphenyl	% Rec		77.			2522
BNA Surr-Terphenyl-d14	% Rec		104.			2522
BNA Surr-Phenol-d5	% Rec		51.			2522
BNA Surr-2-Fluorophenol	% Rec		71.			2522
BNA Surr-2,4,6-Tribromophenol	% Rec		114.			2522

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0500	0.0340	68	52 - 121	2522
Acenaphthene	mg/l	0.0500	0.0380	76	53 - 125	2522
Anthracene	mg/l	0.0500	0.0450	90	54 - 130	2522
Fluoranthene	mg/l	0.0500	0.0470	94	56 - 133	2522
Fluorene	mg/l	0.0500	0.0400	80	53 - 131	2522
Pyrene	mg/l	0.0500	0.0480	96	54 - 133	2522

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 3

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(a)anthracene	mg/l	0.0500	0.0480	96	54 - 134	2522
Benzo(a)pyrene	mg/l	0.0500	0.0470	94	55 - 136	2522
Benzo(b)fluoranthene	mg/l	0.0500	0.0390	78	45 - 136	2522
Benzo(k)fluoranthene	mg/l	0.0500	0.0490	98	55 - 139	2522
Chrysene	mg/l	0.0500	0.0490	98	52 - 141	2522
Dibenzo(a,h)anthracene	mg/l	0.0500	0.0510	102	37 - 148	2522
Indeno(1,2,3-cd)pyrene	mg/l	0.0500	0.0480	96	34 - 150	2522
Acenaphthylene	mg/l	0.0500	0.0380	76	52 - 129	2522
Benzo(g,h,i)perylene	mg/l	0.0500	0.0540	108	28 - 156	2522
Phenanthrene	mg/l	0.0500	0.0440	88	55 - 128	2522
BNA Surr-Nitrobenzene-d5	% Rec			84	24 - 128	2522
BNA Surr-2-Fluorobiphenyl	% Rec			82	33 - 118	2522
BNA Surr-Terphenyl-d14	% Rec			100	27 - 142	2522
BNA Surr-Phenol-d5	% Rec			53	1 - 72	2522
BNA Surr-2-Fluorophenol	% Rec			75	1 - 99	2522
BNA Surr-2,4,6-Tribromophenol	% Rec			113	45 - 157	2522

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Acenaphthene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Anthracene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Fluoranthene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Fluorene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Pyrene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Benzo(a)anthracene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Benzo(a)pyrene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Benzo(b)fluoranthene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Benzo(k)fluoranthene	< 0.00100	mg/l	2522	2/ 8/02	14:21

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 4

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Chrysene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Dibenzo(a,h)anthracene	< 0.00200	mg/l	2522	2/ 8/02	14:21
Indeno(1,2,3-cd)pyrene	< 0.00200	mg/l	2522	2/ 8/02	14:21
Acenaphthylene	< 0.00100	mg/l	2522	2/ 8/02	14:21
Benzo(g,h,i)perylene	< 0.00200	mg/l	2522	2/ 8/02	14:21
Phenanthrene	< 0.00100	mg/l	2522	2/ 8/02	14:21
BNA Surr-Nitrobenzene-d5	67.	% Rec	2522	2/ 8/02	14:21
BNA Surr-2-Fluorobiphenyl	68.	% Rec	2522	2/ 8/02	14:21
BNA Surr-Terphenyl-d14	101.	% Rec	2522	2/ 8/02	14:21
BNA Surr-Phenol-d5	46.	% Rec	2522	2/ 8/02	14:21
BNA Surr-2-Fluorophenol	65.	% Rec	2522	2/ 8/02	14:21
BNA Surr-2,4,6-Tribromophenol	95.	% Rec	2522	2/ 8/02	14:21

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 270579

270579

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive

TEL: (800) 765-0980
FAX: (615) 728-3404

Nashville, TN 37204-0566

Accl #: 3130

04-Feb-02

Requested Tests

Sample ID	Matrix	Collection Date	Bottle Type	SW8270C	Requested Tests
0202003-01D	Aqueous	01/30/2002 2:18:00 PM	1LAMGU	1	17239
0202003-02D	Aqueous	01/30/2002 3:01:00 PM	1LAMGU	1	40
0202003-03D	Aqueous	01/30/2002 3:23:00 PM	1LAMGU	1	41
0202003-04D	Aqueous	01/30/2002 3:47:00 PM	1LAMGU	1	42
0202003-05D	Aqueous	01/31/2002 9:25:00 AM	1LAMGU	1	43
0202003-06D	Aqueous	01/31/2002 9:47:00 AM	1LAMGU	1	44
0202003-07D	Aqueous	01/31/2002 10:07:00 AM	1LAMGU	1	45
0202003-08D	Aqueous	01/31/2002 10:26:00 AM	1LAMGU	1	46
0202003-09D	Aqueous	01/31/2002 10:42:00 AM	1LAMGU	1	47
0202003-10D	Aqueous	01/31/2002 11:02:00 AM	1LAMGU	1	48
0202003-11D	Aqueous	01/31/2002 11:21:00 AM	1LAMGU	1	49
0202003-12D	Aqueous	01/31/2002 11:42:00 AM	1LAMGU	1	50
0202003-13D	Aqueous	01/31/2002 11:42:00 AM	1LAMGU	1	51
0202003-14D	Aqueous	01/31/2002 2:30:00 PM	1LAMGU	1	52
0202003-15D	Aqueous	01/31/2002 2:52:00 PM	1LAMGU	1	53
0202003-16D	Aqueous	01/31/2002 3:19:00 PM	1LAMGU	1	54
0202003-17D	Aqueous	01/31/2002 3:25:00 PM	1LAMGU	1	17255

Comments: Please analyze seventeen (17) water samples for PAH. 8270.

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by: <i>David D. Martin</i>	2/4/02 1530	Received by: <i>C. Wild</i>	2.5.02 0900

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: On Site Tech LTD

BC# 270579

Cooler Received On: 2.5.02 And Opened On: 2.5.02 By: Chris Wilmoth

C. W
(Signature)

1. Temperature of Cooler when opened 4° Degrees Celsius
2. Were custody seals on outside of cooler?.....(YES)...NO
 - a. If yes, how many, what kind and where: 1 Front
3. Were custody seals on containers and intact?.....NO...YES
4. Were the seals intact, signed, and dated correctly?.....(YES)...NO
5. Were custody papers inside cooler?.....(YES)...NO
6. Were custody papers properly filled out (ink, signed, etc)?.....(YES)...NO
7. Did you sign the custody papers in the appropriate place?.....(YES)...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES)...NO
10. Did all bottles arrive in good condition (unbroken)?.....(YES)...NO
11. Were all bottle labels complete (#, date, signed, pres, etc)?.....(YES)...NO
12. Did all bottle labels and tags agree with custody papers?.....(YES)...NO
13. Were correct bottles used for the analysis requested?.....(YES)...NO
14. a. Were VOA vials received?.....YES...NO
 - b. Was there any observable head space present in any VOA vial?.....NO...YES
15. Was sufficient amount of sample sent in each bottle?.....(YES)...NO
16. Were correct preservatives used?.....YES...NO
17. Was residual chlorine present?.....(NO)...YES
18. Corrective action taken, if necessary:

See attached for resolution

On Site Technologies, LTD.

612 E. Murray Drive
Farmington, NM 87401
(505) 325-2432

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive

TEL: (800) 765-0980
FAX: (615) 726-3404

Nashville, TN 37204-0566

Acct #: 3130

04-Feb-02

Sample ID	Matrix	Collection Date	Bottle Type	SW8270C	Requested Tests
0202003-01D	Aqueous	01/30/2002 2:18:00 PM	1LAMGU	1	
0202003-02D	Aqueous	01/30/2002 3:01:00 PM	1LAMGU	1	
0202003-03D	Aqueous	01/30/2002 3:23:00 PM	1LAMGU	1	
0202003-04D	Aqueous	01/30/2002 3:47:00 PM	1LAMGU	1	
0202003-05D	Aqueous	01/31/2002 9:25:00 AM	1LAMGU	1	
0202003-06D	Aqueous	01/31/2002 9:47:00 AM	1LAMGU	1	
0202003-07D	Aqueous	01/31/2002 10:07:00 AM	1LAMGU	1	
0202003-08D	Aqueous	01/31/2002 10:26:00 AM	1LAMGU	1	
0202003-09D	Aqueous	01/31/2002 10:42:00 AM	1LAMGU	1	
0202003-10D	Aqueous	01/31/2002 11:02:00 AM	1LAMGU	1	
0202003-11D	Aqueous	01/31/2002 11:21:00 AM	1LAMGU	1	
0202003-12D	Aqueous	01/31/2002 11:42:00 AM	1LAMGU	1	
0202003-13D	Aqueous	01/31/2002 2:30:00 PM	1LAMGU	1	
0202003-14D	Aqueous	01/31/2002 2:52:00 PM	1LAMGU	1	
0202003-15D	Aqueous	01/31/2002 3:19:00 PM	1LAMGU	1	
0202003-16D	Aqueous	01/31/2002 3:25:00 PM	1LAMGU	1	
0202003-17D	Aqueous				

Comments:

Please analyze seventeen (17) water samples for PAH, 8270.

Relinquished by: *David D. Martin*

Relinquished by:

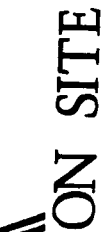
2/4/02 1530

Received by:

Received by:

Date/Time

Date/Time



CHAIN OF CUSTODY RECORD

171

TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date:

Page: _____ of _____

[illegible]



CHAIN OF CUSTODY RECORD

Date:

Page: _____ of _____

6612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.:		Project No.:		Name		Title	
Name		Company		Company			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Telephone No.				Telephone No.			
PROJECT LOCATION:				ANALYSIS REQUESTED			
SAMPLER'S SIGNATURE:							
SAMPLE IDENTIFICATION		SAMPLE			LAB ID		
		DATE	TIME	MATRIX			
RELINQUISHED BY: <i>[Signature]</i>		DATE		TIME	MATRIX	PRES.	LAB ID
		DATE		TIME	MATRIX	PRES.	
		DATE		TIME	MATRIX	PRES.	
		DATE		TIME	MATRIX	PRES.	
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		DATE		TIME	MATRIX	PRES.	
		DATE		TIME	MATRIX	PRES.	
		DATE		TIME	MATRIX	PRES.	
RELINQUISHED BY: <i>[Signature]</i>		DATE		TIME	MATRIX	PRES.	LAB ID
RELINQUISHED BY: <i>[Signature]</i>		DATE		TIME	MATRIX	PRES.	
RELINQUISHED BY: <i>[Signature]</i>		DATE		TIME	MATRIX	PRES.	
METHOD OF SHIPMENT:		DATE		TIME	MATRIX	PRES.	LAB ID
DATE		TIME	MATRIX	PRES.			
DATE		TIME	MATRIX	PRES.			
AUTHORIZED BY: <i>[Signature]</i>		DATE		TIME	MATRIX	PRES.	LAB ID
DATE		TIME	MATRIX	PRES.			
DATE		TIME	MATRIX	PRES.			

APPENDIX C
Soil Sample Laboratory Analyses
QA/QC Data and COC Records

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

February 23, 2002

Terry Griffin
BioTech Remediation, Inc.
510 Airport Drive, Suite 104
Farmington, NM 87401
TEL: (505) 327-4965
FAX (505) 564-3604

RE: Stockpiled Soils

Order No.: 0202005

Dear Terry Griffin,

On Site Technologies, LTD. received 3 samples on 02/01/2002 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

- Cyanide, Reactive (SW7.3.3.2)
- Ignitability (SW1010)
- Soil and Waste pH (SW9045C)
- Sulfide, Reactive (SW7.3.4.2)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox", with a stylized flourish at the end.

David Cox

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 23-Feb-02

CLIENT: BioTech Remediation, Inc.
Project: Stockpiled Soils
Lab Order: 0202005

CASE NARRATIVE

Three soil samples were sub-contracted to Test America for analysis.

TestAmerica

INCORPORATED

2/12/02

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project

. The Laboratory Project number is 270584.

An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
0202005-01A	02-A17267	2/ 1/02
0202005-02A	02-A17268	2/ 1/02
0202005-03A	02-A17269	2/ 1/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: Paul E. Lane, Jr.

Report Date: 2/12/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Jennifer P. Flynn, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17267
Sample ID: 0202005-01A
Sample Type: Soil
Site ID:

Project:
Project Name:
Sampler:

Stockpile Soils; 701 Soil Bore Cuttings

Tuba City

alzalor

Date Collected: 2/ 1/02
Time Collected: 14:24
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Be
GENERAL CHEMISTRY PARAMETERS										
Reactive Cyanide	ND	mg/kg	50.0	50.0	1	2/ 6/02	21:00	Abdullatef	SW-846	
Reactive Sulfide	ND	mg/kg	100.	100.	1	2/ 6/02	21:00	Abdullatef	SW-846	
Ignitability	NOT IGNITABLE UP TO 200F					2/12/02	14:00	T. Beverly	1010M	5
pH	9.30	pH units			1	2/ 7/02	18:30	B. Powell	9045	

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

Flash point/ignitability reported to the nearest 10 deg F.

All results reported on a wet weight basis.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17268
Sample ID: 0202005-02A
Sample Type: Soil
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/ 1/02
Time Collected: 14:40
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Stockpile Soils; Refinery Tank #23 Excavation

WS
2/23/02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	B
GENERAL CHEMISTRY PARAMETERS										
Reactive Cyanide	ND	mg/kg	50.0	50.0	1	2/ 6/02	21:00	Abdullatef	SW-846	
Reactive Sulfide	ND	mg/kg	100.	100.	1	2/ 6/02	21:00	Abdullatef	SW-846	
Ignitability	NOT IGNITABLE UP TO 200F					2/12/02	14:00	T. Beverly	1010M	
pH	8.10	pH units			1	2/ 7/02	18:30	B. Powell	9045	

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

Flash point/ignitability reported to the nearest 10 deg F.

All results reported on a wet weight basis.

End of Sample Report.

ANALYTICAL REPORT

ON SITE TECHNOLOGIES, LTD. 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A17269
Sample ID: 0202005-03A
Sample Type: Soil
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/ 1/02
Time Collected: 14:46
Date Received: 2/ 5/02
Time Received: 9:00
Page: 1

Stockpile Soils; Refinery North Side Stockpile

2/25/02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Ba
GENERAL CHEMISTRY PARAMETERS										
Reactive Cyanide	ND	mg/kg	50.0	50.0	1	2/ 6/02	21:00	Abdullatef	SW-846	
Reactive Sulfide	ND	mg/kg	100.	100.	1	2/ 6/02	21:00	Abdullatef	SW-846	
Ignitability	NOT IGNITABLE UP TO 200F					2/12/02	14:00	T. Beverly	1010M	5
pH	8.50	pH units			1	2/ 7/02	18:30	B. Powell	9045	8

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

Flash point/ignitability reported to the nearest 10 deg F.

All results reported on a wet weight basis.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 1

- Value outside Laboratory historical or method prescribed QC limits.

TestAmerica

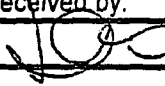
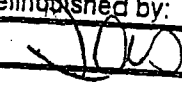
Nashville Division

ACCT NO. 3130

270584

DATE RECEIVED 2.5.02

COMPANY OST LTD

Relinquished by:	Date/Time:	Received by:	Date/Time
CW	2.5.02 1420		2-5/2:22p
Relinquished by:	Date/Time:	Received by:	Date/Time:
	2-5/5:40p	CW	2.6.02 800
Relinquished by:	Date/Time:	Received by:	Date/Time:

PROBLEM(S):

- | | |
|--------------------------|----------------------------|
| FOC/TOC? | METALS LIST? |
| TPH METHOD? | TCLP WHAT? |
| EDB METHOD? | HERB LIST- LONG OR SHORT? |
| NEED LIST OF COMPOUNDS: | 8260 INSTEAD OF 8021? |
| TEMPERATURE UPON RECEIPT | SATURDAY DELIVERY MARKED? |
| ICE -- OR-- NO ICE?? | FIELD TEST-- OUT OF HOLD |
| NO COC - PLEASE FAX | NO ANALYSIS REQUESTED |
| DOCUMENTATION LEVEL? | OUT OF HOLDING TIME-- TEST |
- OTHER: we don't do steel plate ~~and~~ any more, we do pH.
OK?

RESOLUTION: Run pH

CONTACTED	DATE/TIME	EMAIL	LEFT MESSAGE
<u>Martin</u>	<u>5 Feb 02</u>		
<u>Dave Cox</u>			

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: On Site Tech LTD BC# 270584

Cooler Received On: 2.5.02 And Opened On: 2.5.02 By: Chris Wilmoth

C. Wilmoth
(Signature)

1. Temperature of Cooler when opened 4 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO
a. If yes, how many, what kind and where: 1 Front
3. Were custody seals on containers and intact?.....NO...YES
4. Were the seals intact, signed, and dated correctly?.....YES...NO
5. Were custody papers inside cooler?.....YES...NO
6. Were custody papers properly filled out (ink, signed, etc)?.....YES...NO
7. Did you sign the custody papers in the appropriate place?.....YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO
10. Did all bottles arrive in good condition (unbroken)?.....YES...NO
11. Were all bottle labels complete (#, date, signed, pres, etc)?.....YES...NO
12. Did all bottle labels and tags agree with custody papers?.....YES...NO
13. Were correct bottles used for the analysis requested?.....YES...NO
14. a. Were VOA vials received?.....YES...NO
b. Was there any observable head space present in any VOA vial?.....NO...YES
15. Was sufficient amount of sample sent in each bottle?.....YES...NO
16. Were correct preservatives used?.....YES...NO
17. Was residual chlorine present?.....NO...YES
18. Corrective action taken, if necessary:

See attached for resolution

CHAIN-OF-CUSTODY RECORD

270584

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive

TEL: (800) 765-0980
FAX: (615) 726-3404

Nashville, TN 37204-0566

Accl #: 3130

DN 2/4/02

04-Feb-02

Sample ID	Matrix	Collection Date	Bottle Type	SW1010	SW9045C	Cyanide SW 7.3.3.2	Requested Tests SW 7.3.4.2
0202005-01A	Soil	02/01/2002 2:24:00 PM	4OZG	1	1	1	1
0202005-02A	Soil	02/01/2002 2:40:00 PM	4OZG	1	1	1	1
0202005-03A	Soil	02/01/2002 2:46:00 PM	4OZG	1	1	1	1

17267
68
17269

Comments: Please analyze three (3) soils for RCL

Date/Time

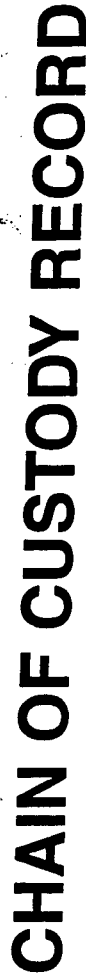
Date/Time

Relinquished by: *David D. Hyatt* 2/4/02 1530

Received by:

Received by: *C. Holt*

2.5.02 0900



151188

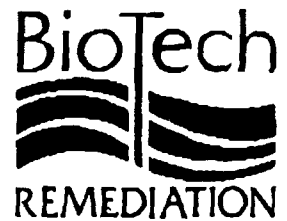
Date: 5-1-13

Page: _____ of _____

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

[illegible]

APPENDIX D
Bio Tech/Thriftway Letter (November 2001)



November 19, 2001

710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
OM (505) 327-4965
Fax: (505) 564-3604

Mr. Wayne Price
Petroleum Engineering Specialist
New Mexico Energy, Minerals and Natural Resources Dpt.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, N M 87505

RE: Discharge Plan Renewal GW-055
Thriftway Bloomfield Refinery

Dear Mr. Price:

Thriftway has contracted with BioTech Remediation Inc., to prepare and submit all necessary documentation required for approval for the Thriftway Bloomfield Refinery Discharge Plan GW-55.

The following text addresses the issues noted in your letter of September 26, 2001. The items will be addressed in the same order as presented in the reference letter.

1. The below grade sumps which contain oily waste at Tank #11 and Tank #12 will be cleaned out at the December 2001 Sampling and Monitoring event.
2. The soils located on the north side of the property will be sampled at the year end Quarterly Sampling and Monitoring event and the results will be published within the annual report. If the soils remain above regulatory limits, the soils will be removed to an approval land farm.
3. The on-site production well belongs to Arrington Oil out of Midland, Texas. Any work that is required there should be directed to Arrington Oil.
4. The valve on Tank #23 (reference in your letter as Tank #184), which was leaking, has been repaired and the stained soils will be sampled at the Quarterly Sampling and Monitoring event in December and will be removed and transported to an approved land farm upon receipt of analysis.
5. BioTech is in the process of contracting with The Snow Company, out of Albuquerque, New Mexico, to inspect the lagoon liners. Schedules permitting, the inspection should take place shortly after the first of the year and results will be published within the required Annual Report.

November 19, 2001
Mr. Wayne Price
Page 2

Enclosed also is a letter which Brad Billings, with Billings and Associates, Inc., has prepared reviewing the most current data for the refinery with recommendations for remedial options for this discharge permit renewal.

I have also enclosed a check for \$50.00 to satisfy the ground water permit fee. I believe that with this submittal, the permit application is complete. However, if you find that additional information is required, please contact me at 505-327-4965.

Respectfully,



Terry Griffin
Project Administrator

Enclosures (2)

CC: File
Thriftway Company
Brad Billings, Billings and Associates