GW - 55

MONITORING REPORTS

DATE:
3/30/2007

Animas Environmental Services, LLC

DRAWN BY	NCW	CHECKED BY	GF	04-19-07	REVISIONS
	04-19-07	APPROVED BY	EM	04-19-07	BY: Nathan DATE: 04-19-07

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 1A TOPOGRAPHICAL SITE LOCTION MAP.DWG

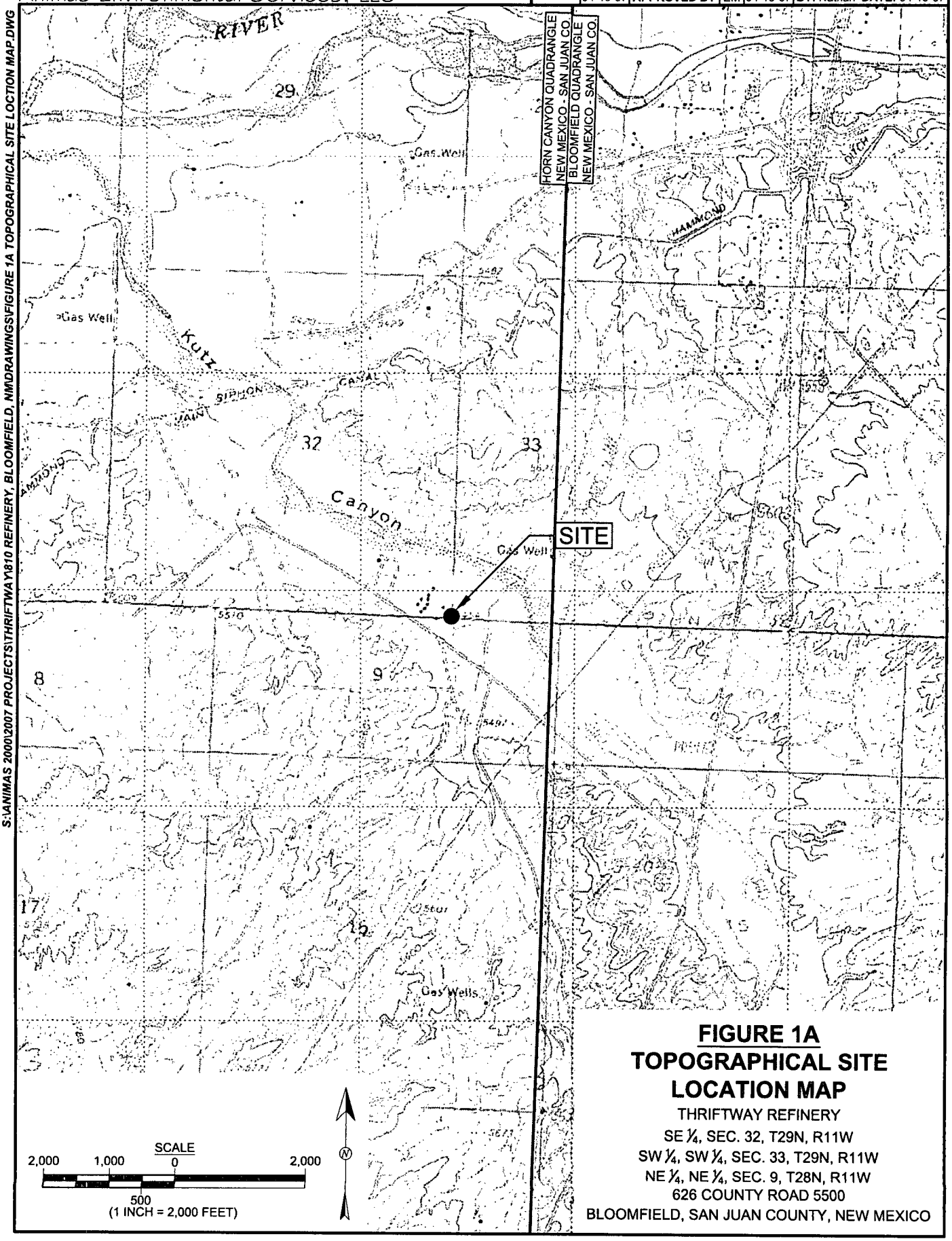

FIGURE 1A
TOPOGRAPHICAL SITE LOCATION MAP

THRIFTWAY REFINERY
SE ¼, SEC. 32, T29N, R11W
SW ¼, SW ¼, SEC. 33, T29N, R11W
NE ¼, NE ¼, SEC. 9, T28N, R11W
626 COUNTY ROAD 5500
BLOOMFIELD, SAN JUAN COUNTY, NEW MEXICO

April 19, 2007

Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Report Modification to Thriftway Refinery's *Annual Groundwater Monitoring and Sampling Report*, dated March 30, 2007, for the Thriftway Refinery, 626 County Road 5500, Bloomfield, New Mexico

Dear Mr. von Gonten:

Enclosed please find the requested revision of Section 1.0 of the *Annual Groundwater Monitoring and Sampling Report* for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, New Mexico, dated March 30th, 2007, and prepared by Animas Environmental Services, LLC. Also attached is a Topographical Site Location Map (Figure 1A).

1.0 Introduction

Animas Environmental Services, LLC (AES) has prepared this Annual Report on behalf of Thriftway Marketing Corporation (Thriftway) for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico, in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. The Thriftway Refinery is legally described as existing within the SE¼ of Section 32, T29N, R11W; SW¼, SW¼ of Section 33, T29N, R11W; and NE¼ NE¼ of Section 9, T28N, R11W, N.M.P.M., in Bloomfield, San Juan County, New Mexico. The Thriftway Refinery is operated under the Oil Conservation Division Discharge Plan Permit (GW-055).

This annual groundwater monitoring and sampling report details the groundwater monitoring and sampling activities in addition to groundwater remediation efforts at the site for 2006. A general site plan is included as Figure 1.

If you have any questions regarding the revision of Section 1, please do not hesitate to contact me, Ross Kennemer or Elizabeth McNally at (505) 564-2281.

Sincerely,

Gwen Frost
Project Manager

Attachments: Figure 1A. Topographical Site Location Map

Cc: Thriftway Marketing Corporation
501 Airport Drive, Suite 100
Farmington, New Mexico 87401

Brandon Powell
New Mexico Oil Conservation Division, District 3
1000 Rio Brazos Rd.
Aztec, New Mexico 87410

Files:2007/Thriftway/810 Refinery,Bloomfield,NM/gc/Modification Section 1 041907

GW055

AES Animas Environmental Services, LLC

AES Animas Environmental Services, LLC

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

GW055

RECEIVED

APR 05 2007

Oil Conservation Division
Environmental Bureau

ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT

Thriftway Refinery
626 County Road 5500
Bloomfield, New Mexico

March 30, 2007

Prepared for
Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Brandon Powell
New Mexico Oil Conservation Division, District 3
1000 Rio Brazos Road
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AES Project # 050204

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1.0 Introduction

Animas Environmental Services, LLC (AES) has prepared this Annual Report on behalf of Thriftway Marketing Corporation (Thriftway) for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico, in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations.

This annual groundwater monitoring and sampling report details the groundwater monitoring and sampling activities in addition to groundwater remediation efforts at the site for 2006. A general site plan is included as Figure 1.

2.0 Groundwater Monitoring and Sampling

BioTech Remediation, Inc. (BioTech) personnel measured groundwater elevations at the site in June and December 2006, and January 2007. Groundwater monitoring and sampling was also conducted at the site in June and December 2006, and January 2007. Additionally, influent and effluent water samples were collected on a monthly basis from the on-site airstripper in March through November 2006, with the exception of October 2006, to monitor system operations. The December 2006 influent and effluent water samples were collected on January 2nd, 2007. The December 2006 sampling events took place on December 28th, 2006, and January 2nd and 10th, 2007. Due to holiday scheduling, the hold times on select samples had inadvertently expired and were re-sampled on January 10th, 2007. All December 2006 and January 2007 semi-annual sampling results will be referred to throughout the report as the December 2006 sampling event.

2.1 Measurement of Groundwater Elevations

Before collection of groundwater samples, depth to groundwater in each well was measured with an electronic water level indicator, which has an accuracy of 0.01 foot. Depth to groundwater measurements were recorded onto a Water Sample Collection Form for each well. Water Sample Collection Forms for June and December 2006 are included in Appendix A.

2.2 Measurement of Free Product

Each well with free product was measured with an electronic interface probe, and the depth to top of product and the depth to the oil/water interface were recorded onto a groundwater measurement form. Free product was measured during June and December 2006 within MW-3, MW-12, MW-29, RW-24, RW-25, and RW-26.

2.3 Groundwater Sampling

Once the depth to groundwater was measured in each well, the well was purged with a new disposable bailer to remove stagnant water from the well. Groundwater samples were then collected. Monitoring wells found to contain free product were not sampled. Groundwater sampling procedures included the following:

1. A new disposable bailer was used at each well. Samples were collected using a slow release valve attached to the bottom of the bailer (to ensure a slow flow and less volatilization of contaminants from groundwater). Each sample container was filled, making sure there were no bubbles or headspace in VOA/VOC sample bottles.
2. Each bottle was labeled, and chain-of-custody documentation was filled out as each well was sampled. Sample containers obtained from the analyzing laboratory were utilized during the sampling events.
3. Samples were placed in an insulated cooler and maintained at 4°C during transportation to the laboratory, Pinnacle Laboratories, Albuquerque, New Mexico.

Groundwater samples were collected from the least contaminated sampling location to the most contaminated sampling location in order to prevent cross-contamination.

2.4 Equipment Decontamination Protocols

In order to ensure data validity and prevent cross-contamination, the following decontamination protocols for sampling equipment were employed:

- Wash with detergent (Alconox) and warm water
- Rinse with warm water
- Wash with detergent (Alconox) and warm water
- Rinse with de-ionized water

2.5 Laboratory Analyses

Groundwater samples collected during the semi-annual sampling events in June and December 2006, were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl-t-butyl ether (MTBE) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) per EPA Method 8021/8015M. Samples collected during the annual sampling event in December 2006 were also analyzed for the following:

- Diesel range organics (DRO) per EPA Method 8015;
- Polynuclear aromatic hydrocarbons (PAHs) per EPA Method 8270 SIMS;
- RCRA 8 Metals per EPA Method 6010B and 7470A;
- Dissolved Metals (Calcium, Magnesium, Potassium, and Sodium) per EPA Method 6010B;
- Bromide per EPA Method 300.0;
- Chloride per EPA Method 4500E;
- Fluoride per EPA Method 340.2;
- Sulfate per EPA Method 375.4;
- Hardness as CaCO3 per EPA Method 6010B;
- Total Dissolved Solids (TDS) per EPA Method 160.1;
- Forms of Alkalinity per EPA Method 4500D

All samples were analyzed at Pinnacle Laboratories in Albuquerque, New Mexico, or one of its subcontracting laboratories.

3.0 Results

3.1 Hydraulic Gradient and Water Quality Data

3.1.1 Hydraulic Gradient

Prior to sampling each well, depth to groundwater measurements were recorded on to a Water Sample Collection Form. Groundwater elevations across the site in June 2006 ranged from 5,434.67 feet above mean sea level (AMSL) in MW-14 down to 5,423.54 feet AMSL in MW-5. Groundwater gradient was calculated between MW-14 and MW-5 with a magnitude of 0.008 ft/ft to the northwest for June 2006.

Groundwater elevations across the site during the sampling event in December 2006 ranged from 5436.94 feet AMSL in MW-15 down to 5424.09 feet AMSL in MW-5. Groundwater gradient was measured between MW-15 and MW-5 with a magnitude of 0.006 ft/ft to the northwest for December 2006.

The direction of groundwater gradient has remained stable in a northwest direction across the site. Table 1 includes depth to groundwater measurements and hydraulic elevations. Groundwater elevation contours are presented in Figure 2. Water Sample Collection Forms for June and December 2006 are presented in Appendix A.

3.1.2 Water Quality Data

Following well measurement and purging of the wells, water quality data was recorded until temperature, pH, conductivity, and dissolved oxygen (DO) measurements stabilized. Temperature in the monitoring wells in 2006 ranged from 7.9°C up to 19.8°C. pH was neutral at 6.5 to 7.4, and conductivity was recorded at 2.575 mS up to 12.72 mS. Dissolved oxygen concentrations were measured and ranged from 0.02 mg/L to 1.33 mg/L.

3.2 Free Product

Non-aqueous phase liquid (NAPL) or free product was measured in several wells, including MW-3, MW-12, MW-29, and RW-24 through RW-26, throughout the year. Measured thicknesses ranged from 0.01 feet in RW-26 in December 2006 up to a maximum of 1.0 feet in MW-3 in June 2006. During 2006, a total of approximately 175 gallons of free product were recovered from the site oil/water separator located upstream of the airstripper. Free product is stored in an on-site tank, labeled appropriately and will be disposed of by Safety Kleen. Free product thickness contours are presented in Figure 3.

3.3 Dissolved Phase Contaminants Concentrations

3.3.1 Volatile Organics

Benzene concentrations that exceeded the WQCC standard of 10 µg/L were detected in MW-1, MW-2, MW-3, MW-14, MW-17, and RW-26. Benzene concentrations ranged from 110 µg/L in MW-14 up to 1,300 µg/L in RW-26 for June 2006 and from 150 µg/L in MW-17 up to 4,700 µg/L in MW-1 for December 2006. Benzene concentration contours are presented as Figure 4.

Toluene and ethylbenzene concentrations were below laboratory detection limits or below the applicable WQCC standards of 750 µg/L throughout 2006 in the wells that were sampled.

Xylene exceeded the WQCC standard of 620 µg/L in RW-26 with 1,000 µg/L in June 2006. All other wells sampled were below the laboratory detection limit or below the applicable WQCC standard.

MTBE concentrations were above the WQCC standard of 100 µg/L in three wells sampled during 2006, including RW-26, MW-3 and MW-20. The highest MTBE concentration was reported at 330 µg/L in RW-26 in June 2006. All other wells were either below the laboratory detection limit or below applicable WQCC standards in the wells included in the sampling events. MTBE concentration contours are included in Figure 5.

TPH-GRO (C_6-C_{10}) concentrations ranged from below the laboratory detection limit up to 14 mg/L in MW-1 in December 2006. TPH-DRO (C_{10}-C_{22}) concentrations ranged from below laboratory detection limit up to 2310 mg/L in MW-2. TPH-GRO and TPH-DRO concentration contours are presented as Figures 6 and 7, respectively.

BTEX, MTBE, TPH-GRO, and TPH-DRO analytical data are summarized in Table 2. Dissolved phase benzene concentration contours and MTBE concentration contours are included as Figures 4 and 5, respectively. TPH-GRO concentration contours are presented as Figure 6 and TPH-DRO concentration contours are included as Figure 7. Laboratory analytical reports are presented in Appendix B.

3.3.2 Polynuclear Aromatic Hydrocarbons

Groundwater samples were analyzed for PAHs per EPA Method 8270 SIMS during the December 2006 sampling event. Monitoring wells MW-1, MW-3, MW-5, MW-10, MW-14, MW-17, MW-18, MW-20, MW-21, and MW-22 were sampled on January 2nd and 10th, 2007, because samples exceeded holding times.

Total naphthalenes (including 1- and 2-methyl naphthalene) exceeded the WQCC standard of 30 µg/L in MW-3 with 89 µg/L and MW-17 with 41.7 µg/L. Dissolved phase naphthalene concentration contours are presented as Figure 8.

Benzo(a)pyrene was recorded below the laboratory detection limit in all wells sampled for the December 2006 sampling event. Acenaphthene and acenaphthylene, fluorene, and phenanthrene were detected in MW-3 and MW-17, and fluorene was also detected in MW-14 and MW-20. The highest PAH concentrations were noted in MW-3 and included 3.97 µg/L acenaphthene, 2.09 µg/L acenaphthylene, 0.65 µg/L benzo(a)anthracene, 2.73 µg/L chrysene, 0.96 fluoranthene, 16 µg/L fluorene, 5.48 phenanthrene, and 3.85 µg/L pyrene. PAH analytical data are summarized in Table 3, and dissolved phase naphthalene concentration contours are included as Figure 8. Laboratory analytical results are included in Appendix B.

3.3.3 RCRA 8 Metals

RCRA 8 metals were analyzed by EPA Method 6010B and 7470A from groundwater samples collected during the December 2006 sampling event. Barium was detected

above the applicable WQCC standard of 1.0 mg/L in MW-3 with 3.78 mg/L. Arsenic was detected just below the WQCC standard of 0.10 mg/L in MW-3 and MW-18 with concentrations of 0.098 mg/L and 0.092 mg/L, respectively. All other wells sampled for arsenic were below standard or below the laboratory detection limit. Lead concentrations were below WQCC standard of 0.05 mg/L or below the laboratory detection limits, although MW-22 was just below standard with 0.049 mg/L. Laboratory results for cadmium, chromium, selenium, silver and mercury showed either trace concentrations or concentrations below the laboratory detection limit. Analytical results are summarized in Table 4, and laboratory analytical reports are included in Appendix B.

3.3.4 Dissolved Metals, Chlorides, Carbon Dioxide and Forms of Alkalinity

Groundwater samples were also analyzed for calcium, magnesium, potassium, sodium, bromide, chloride, fluoride, sulfate, hardness (as $CaCO_3$), TDS, and forms of alkalinity during the December 2006 sampling event. TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS detected in MW-22 with 9,560 mg/L. Sulfate concentrations exceeded the applicable WQCC standard of 600 mg/L in all wells sampled, with the exception of MW-3 with 15 mg/L sulfate. The highest sulfate concentration was detected in MW-22 with 5,790 mg/L. Chloride concentrations exceeded the WQCC standard of 250 mg/L in five wells (MW-3, MW-17, MW-18, MW-21, and MW-22), with the highest concentration noted at 1,140 mg/L in MW-17. Note that these concentrations are believed to be typical for shallow groundwater conditions in the vicinity. Bicarbonate and carbonate concentrations ranged from below the laboratory detection limit up to 985 mg/L as $CaCo_3$ in MW-3 and 7.3 mg/L as $CaCo_3$ in MW-18, respectively. Laboratory data have been summarized and are presented within Tables 5 and 6. Dissolved phase chloride concentrations, groundwater conductivity, and TDS are presented in Figures 9, 10, and 11, respectively. Laboratory analytical reports are found in Appendix B.

4.0 Remediation Unit Operations and Sampling

4.1 Remediation Unit Operations

The airstripper was off-line in at various times throughout 2006 for routine operations and maintenance and repairs. A flow meter was replaced in August 2006. The system was shut down several times throughout the year to allow for recharge to the water collection tank (before airstripper). Total run-time for the year was approximately 65 percent, based upon electric meter hours.

4.2 Remediation Unit Sampling

Airstripper influent and effluent samples were collected on a monthly basis from March through November 2006, with the exception of October 2006, for analysis of BTEX, MTBE, and TPH-GRO per EPA Method 8021/8015M at Pinnacle Laboratories. The December samples were collected on January 2, 2007. Groundwater samples collected during the December 2006 sampling event were also analyzed for the following:

- DRO per EPA Method 8015;
- PAHs per EPA Method 8270 SIMS;
- RCRA 8 Metals per EPA Method 6010B and 7470A;

- Dissolved Metals (Calcium, Magnesium, Potassium, and Sodium) per EPA Method 6010B;
- Bromide per EPA Method 300.0;
- Chloride per EPA Method 4500E;
- Fluoride per EPA Method 340.2;
- Sulfate per EPA Method 375.4;
- Hardness as CaCO3 per EPA Method 6010B;
- TDS per EPA Method 160.1;
- Forms of Alkalinity per EPA Method 4500D

Analytical results indicate that the airstripper appears to be effectively removing light end petroleum hydrocarbons (BTEX and MTBE). Benzene concentrations were above the WQCC standard for all influent samples, with concentrations ranging from 21 µg/L in April 2006 up to 280 µg/L in August 2006. Effluent benzene concentrations were all below the laboratory detection limit or below the WQCC standard of 10 µg/L. Toluene and ethylbenzene concentrations for influent samples were all below laboratory detection limits or below the WQCC standards of 750 µg/L. Xylene concentrations were below the WQCC standard of 620 µg/L or below laboratory detection limits for all influent samples. Influent MTBE concentrations exceeded the WQCC standard of 100 µg/L in four of the nine sampling events, with the highest MTBE concentrations reported at 150 µg/L in August 2006 and 140 mg/L in September 2006. Influent TPH-GRO concentrations ranged from 0.54 mg/L in June 2006 up to 6.4 mg/L in July 2006, and influent TPH-DRO for January 2007 was below the laboratory detection limit of 1.0 mg/L. Effluent concentrations for BTEX and MTBE were either below the laboratory detection limit or below applicable WQCC standards. BTEX, MTBE, TPH-GRO, and TPH-DRO tabulated results are included in Table 2.

Results of the PAH analyses indicated that influent airstripper concentrations did not exceed the WQCC standards for total naphthalenes or benzo(a)pyrene during the December 2006 sampling event. Airstripper effluent concentrations for all PAHs, including total naphthalenes, were all below laboratory detection limits. PAH analytical results are presented in Table 3.

Reported RCRA 8 metal concentrations for both airstripper influent and effluent samples were either below the laboratory detection limit or below the applicable WQCC standards. RCRA 8 metals concentrations were tabulated and are found in Table 4.

Airstripper influent and effluent concentrations were found to exceed applicable WQCC standards for chloride, sulfate, and TDS. Analytical data are presented in Table 5 along with other dissolved metals, including calcium, magnesium, potassium, sodium, bromide, fluoride, and hardness (as $CaCo_3$). Forms of alkalinity are presented in Table 6.

All laboratory analytical reports for airstripper influent and effluent sampling are included within Appendix B.

5.0 Summary and Conclusions

BioTech personnel conducted semi-annual groundwater monitoring and sampling at the site in June and December 2006. Overall groundwater elevations continue to be stable and appear to have fluctuated moderately throughout 2006 as part of seasonal variations noted previously at the site. Groundwater gradient was calculated to be approximately 0.008 ft/ft in June 2006 and 0.006 ft/ft in December 2006 in a northwest direction across the site.

Free product was measured in several wells, including MW-3, MW-12, MW-29, and RW-24 through RW-26. Measured thicknesses ranged from 0.01 feet in RW-26 up to a maximum of 1.0 feet in MW-3 in June 2006. During 2006, a total of approximately 175 gallons of free product were recovered from the site oil/water separator located upstream of the airstripper. Free product will be disposed of at Safety Kleen.

Based upon the analytical results for the June and December 2006 sampling events, dissolved phase contaminant concentrations in several wells exceeded the New Mexico WQCC standards for benzene, MTBE, total naphthalenes, barium, chloride, sulfate, and TDS. The highest benzene concentration was reported at 4,700 µg/L in MW-1, and the highest MTBE concentration was detected at 330 µg/L in RW-26.

Airstripper influent concentrations also exceeded the WQCC standards during various events for benzene, MTBE, chloride, sulfate, and TDS. However, airstripper effluent concentrations were below applicable WQCC standards for all compounds except chloride, sulfate, and TDS, which is typical for shallow groundwater conditions in the vicinity. Influent and effluent water concentrations show that the airstripper is effectively removing hydrocarbon mass from contaminated groundwater.

6.0 Recommendations

AES recommends that BioTech continue with monitoring and sampling at the site as follows:

1. Monthly water samples collected from the influent and effluent of the airstripper for analyses of BTEX, MTBE, and TPH-GRO per EPA Methods 8021/8015;

2. Semi-annual measurement (June 2007) of groundwater elevations in all wells and collection of groundwater samples for laboratory analyses of BTEX, MTBE, TPH-GRO and TPH-DRO in 15 wells (MW-1, MW-2, MW-3, MW-5, MW-10, MW-12, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-29, RW-24, and RW-26);

3. Semi-annual measurement (December 2007) of groundwater elevations and collection of groundwater samples for laboratory analyses of BTEX, MTBE, TPH-GRO and TPH-DRO in 15 site wells (as included above);

4. Annual sampling of PAHs per EPA Method 8270 SIMs, RCRA metals, dissolved metals, and carbonates and alkalinity in the airstripper influent and effluent and in the 15 site wells (as included above).

7.0 Statement of Familiarity

I, the undersigned, am personally familiar with the information submitted in this annual groundwater monitoring report and attached documents for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico, prepared on behalf of Thriftway Marketing Corporation. I attest that it is true and complete to the best of my knowledge.

Gwen Frost

Gwen Frost, Project Manager

Elizabeth D. McNally

Elizabeth McNally, P.E.
New Mexico Registration #15799

TABLES

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
A.S. INF	28-Jun-06							5.4	5.311	0.82	22.1	
A.S. INF	02-Jan-07							7.1	9.197	1.08	11.7	NA
A.S. EFF	28-Jun-06							2.8	6.064	0.91	22.3	
A.S. EFF	02-Jan-07							8	9.201	5.1	12.72	NA
MW-1	01-Feb-02	5449.08		14.78			5434.30					
MW-1	04-Feb-02	5449.08	9.17	9.18	0.01		5439.89					
MW-1	29-Jul-02	5449.08		14.99			5434.09					No Sample
MW-1	06-Jun-03	5449.08		14.31			5434.77					No Sample
MW-1	21-Jan-04	5449.08		15.04			5434.04					No Sample
MW-1	26-May-04	5449.08		14.52			5434.56					No Sample
MW-1	29-Jul-04	5449.08		14.31			5434.77					No Sample
MW-1	03-Jan-05	5449.08		15.25			5433.83					No Sample
MW-1	08-Apr-05	5449.08		14.83			5434.25					
MW-1	19-Sep-05	5449.08		15.42			5433.66	NM	NM	NM	NM	No Sample
MW-1	03-Jan-06	5449.08		15.23			5433.85	7.40	2.593	0.34	17.30	3
MW-1	28-Jun-06	5449.08		14.85			5434.23	6.80	3.489	0.40	17.20	3
MW-1	28-Dec-06	5449.08		15.01			5434.07	7.20	6.065	0.28	13.20	3
MW-2	01-Feb-02	5442.65		11.91			5430.74					No Sample
MW-2	29-Jul-02	5442.65		11.97			5430.68					No Sample
MW-2	06-Jun-03	5442.65		12.57			5430.08					No Sample
MW-2	21-Jan-04	5442.65	11.94	13.00	1.06		5428.88					No Sample
MW-2	26-May-04	5442.65	11.58	12.60	1.02		5429.31					No Sample
MW-2	28-Jul-04	5442.65	11.75	12.73	0.98		5429.21					No Sample
MW-2	03-Jan-05	5442.65	12.00	12.99	0.99		5428.94					No Sample
MW-2	01-Apr-05	5442.65	12.48	11.51	0.97		5430.43					
MW-2	19-Sep-05	5442.65	11.65	12.60	0.95		5429.36	NM	NM	NM	NM	

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-2	05-Jan-06	5442.65	11.78	12.70	0.92		5429.28	7.20	2.238	0.50	15.00	
MW-2	28-Jun-06	5442.65		11.86			5430.79	6.80	2.575	0.51	17.00	1.5
MW-2	02-Jan-07	5442.65		NM				NM	NM	NM	NM	
MW-3	01-Feb-02	5431.43		6.03			5425.40					No Sample
MW-3	29-Jul-02	5431.43	5.30	6.73	1.43		5423.66					No Sample
MW-3	06-Jun-03	5431.43	5.00	6.10	1.10		5424.53					No Sample
MW-3	24-Jan-04	5431.43	5.18	6.58	1.40		5423.83					No Sample
MW-3	26-May-04	5431.43	4.99	6.82	1.83		5423.28					No Sample
MW-3	28-Jul-04	5431.43	4.79	5.58	0.79		5425.27					No Sample
MW-3	03-Jan-05	5431.43	4.86	5.33	0.47		5425.76					
MW-3	01-Apr-05	5431.43	3.67	3.67	0.00		5427.76					
MW-3	19-Sep-05	5431.43	5.3	5.70	0.40		5425.44					
MW-3	05-Jan-06	5431.43	5.01	5.18	0.17		5426.13	NM	NM	NM	NM	No Purge
MW-3	28-Jun-06	5431.43	5.27	6.27	1.00		5424.43	NM	NM	NM	NM	No Purge
MW-3	02-Jan-07	5431.43		4.79			5426.64	7.0	4.791	0.69	13.7	3
MW-4	02-May-01	5430.12		4.96			5425.16	6.9	1.41	2.15	64.4	5
MW-4	30-Jul-01	5430.12		5.72			5424.40	7.0	1.56	11.54	77	6
MW-4	30-Jan-02	5430.12		5.37			5424.75					P
MW-4	25-Jul-02	5430.12		5.70			5424.42	7.3	2.54	1.34	84	P
MW-4	21-Nov-02	5430.12		5.17			5424.95	7.5	1.41	1.80	53.4	P
MW-4	05-Jun-03	5430.12		4.97			5425.15	7.3	2.72	1.09	62	
MW-4	19-Jan-04	5430.12		5.35			5424.77	7.0	1.119	1.86	48.7	P
MW-4	25-May-04	5430.12		5.11			5425.01	6.9	2.874	0.34	65.7	3
MW-4	27-Jul-04	5430.12		5.62			5424.50	7.4	2.71		72.1	B
MW-4	28-Dec-04	5430.12		5.16			5424.96	7.5				MP
MW-4	31-Mar-05	5430.12		4.30			5425.82	6.9	2.17	1.48	52.7	MP
MW-4	19-Sep-05	5430.12		5.30			5424.82	7.1	3.09	0.40	70.3	
MW-4	4-Jan-06	5430.12		4.91			5425.21	7.2	2.35	0.70	11.3	3

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-4	02-Jan-07	5430.12		4.79			5425.33	NM	NM	NM	NM	No Sample
MW-5	30-Jan-02	5428.97		5.33			5423.64					P
MW-5	25-Jul-02	5428.97		5.73			5423.24	7.8	4.78	1.18	69	P
MW-5	21-Nov-02	5428.97		5.43			5423.54					
MW-5	05-Jun-03	5428.97		5.02			5423.95	8.0	3.07	1.44	59.4	B
MW-5	19-Jan-04	5428.97		5.25			5423.72	7.7	1.14	2.61	47.6	P
MW-5	25-May-04	5428.97		5.04			5423.93	7.5	3.21	0.45	60.4	3
MW-5	27-Jul-04	5428.97		5.43			5423.54	8.1	4.07		75.5	B
MW-5	28-Dec-04	5428.97		5.26			5423.71	8.0				MP
MW-5	31-Mar-05	5428.97		4.62			5424.35	7.3	2.77	0.39	52.7	MP
MW-5	19-Sep-05	5428.97	DRY	DRY	DRY		DRY	NM	NM	NM	NM	
MW-5	5-Jan-06	5428.97	DRY	DRY	DRY		DRY	NM	NM	NM	NM	
MW-5	27-Jun-06	5428.97		5.43			5423.54	7.2	4.197	0.37	16	3
MW-5	28-Dec-06	5428.97		4.88			5424.09	7.3	7.927	0.54	10.4	3
MW-6	3-May-01	5430.70		5.15			5425.55	7.3	1.35	5.33	54.9	5
MW-6	30-Jul-01	5430.70		5.86			5424.84	7.1	1.57	14.21	68.9	6
MW-6	30-Jan-02	5430.70		5.22			5425.48					
MW-6	25-Jul-02	5430.70		5.39			5425.31	7.2	3.26			
MW-6	21-Nov-02	5430.70		4.86			5425.84	7.5	3.24	0.86	60.8	P
MW-6	5-Jun-03	5430.70		4.90			5425.80	7.5	2.64	1.02	62.6	
MW-6	19-Jan-04	5430.70		5.14			5425.56	7.6	2.235	1.64	52.2	P
MW-6	25-May-04	5430.70		5.04			5425.66	7.1	2.882	0.31	63.3	3
MW-6	27-Jul-04	5430.70		5.14			5425.56	7.7	3.90		72.1	B
MW-6	28-Dec-04	5430.70		5.01			5425.69	7.6				MP
MW-6	31-Mar-05	5430.70		3.88			5426.82	7.2	2.42	1.24	52.7	MP
MW-6	19-Sep-05	5430.70		5.18			5425.52	7.2	3.839	0.46	70.9	
MW-6	4-Jan-06	5430.70		4.72			5425.98	7.5	2.775	1.60	11.7	3
MW-6	02-Jan-07	5430.70		4.63			5426.07	NM	NM	NM	NM	No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-7	1-Feb-02	5435.28		5.32			5429.96					No Sample
MW-7	29-Jul-02	5435.28		6.11			5429.17					No Sample
MW-7	6-Jun-03	5435.28		9.06			5426.22					No Sample
MW-7	19-Jan-04	5435.28		9.06			5426.22	7.0	2.827	0.93	49.7	P
MW-7	25-May-04	5435.28		9.14			5426.14	6.8	3.76	0.27	63.2	3
MW-7	27-Jul-04	5435.28		9.08			5426.20	7.3	5.32		72.8	B
MW-7	28-Dec-04	5435.28		9.05			5426.23	7.8				MP
MW-7	31-Mar-05	5435.28		7.67			5427.61	6.5	3.011	0.5	52	MP
MW-7	19-Sep-05	5435.28		9.20			5426.08	7.0	4.802	0.41	70.8	
MW-7	4-Jan-06	5435.28		8.14			5427.14	7.0	3.625	0.48	14.5	3
MW-7	02-Jan-07	5435.28		8.75			5426.53	NM	NM	NM	NM	No Sample
MW-8	30-May-01	5433.04		4.05			5428.99	7.1	1.79	4.57	53.4	5.2
MW-8	30-Jul-01	5433.04		5.86			5427.18	7.0	2.61	13.34	75.0	6
MW-8	31-Jan-02	5433.04		5.32			5427.72			0.36	73.3	P
MW-8	26-Jul-02	5433.04		5.84			5427.20	7.3	6.49	1.24	74.2	P
MW-8	22-Nov-02	5433.04		3.90			5429.14	6.8	3.97	0.47	55.6	P
MW-8	5-Jun-03	5433.04		4.30			5428.74	7.0	3.38	0.75	60.3	B
MW-8		5433.04	Well Not Found									
MW-8	4-Jan-06	5433.04		4.04			5429.00	6.8	3.377	0.62	13.4	3
MW-8	02-Jan-07	5433.04	Well Not Found									
MW-9	30-Jan-02	5436.69		NS	Well not located							
MW-9	26-Jul-02	5436.69		NS	Well not located							
MW-9	21-Nov-02	5436.69		5.37			5431.32	7.5	5.8	0.91	58.3	P
MW-9	5-Jun-03	5436.69		5.61			5431.08	7.5	4.95	0.85	63.8	P
MW-9	19-Jan-04	5436.69		5.72			5430.97	7.3	3.23	1.71	35.1	P
MW-9	25-May-04	5436.69		5.72			5430.97	7.5	4.86	0.65	61.5	3
MW-9	28-Jul-04	5436.69		5.95			5430.74	7.57	6.73		72	B

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-9	29-Dec-04	5436.69		5.47			5431.22					MP
MW-9	31-Mar-05	5436.69		5.38			5431.31	7	4.172	1.4	52.3	MP
MW-9	19-Sep-05	5436.69		5.73			5430.96	7.3	5.805	0.56	70.9	
MW-9	4-Jan-06	5436.69		5.26			5431.43	7.4	4.035	1.17	8	3
MW-9	02-Jan-07	5436.69		5.21			5431.48	NM	NM	NM	NM	No Sample
MW-10	31-Jan-02	5437.78		5.21			5432.57					P
MW-10	26-Jul-02	5437.78		5.62			5432.16	7.4	5.51	1.37	74.4	P
MW-10	21-Nov-02	5437.78		5.32			5432.46	7.3	4.63	0.97	59.1	P
MW-10	5-Jun-03	5437.78		5.35			5432.43	7.6	4.62	0.98	63.3	B
MW-10	19-Jan-04	5437.78		5.29			5432.49	7.3	2.96	1.38	45.8	P
MW-10	25-May-04	5437.78		5.19			5432.59	7.4	4.54	0.46	61.4	3
MW-10	28-Jul-04	5437.78		5.42			5432.36	8.31			69.7	B
MW-10	29-Dec-04	5437.78		5.08			5432.70					MP
MW-10	31-Mar-05	5437.78		5.00			5432.78	7.1	3.482	0.8	50.7	MP
MW-10	19-Sep-05	5437.78		5.22			5432.56	7.4	4.847	0.54	69.6	
MW-10	3-Jan-06	5437.78		4.66			5433.12	7.4	3.721	0.92	11.6	3
MW-10	28-Jun-06	5437.78		5.28			5432.50	7	5.567	0.46	18.2	3
MW-10	28-Dec-06	5437.78		4.88			5432.90	7.4	9.762	1.00	10.1	3
MW-11	31-Jan-02	5439.67		5.71			5433.96					P
MW-11	26-Jul-02	5439.67		6.29			5433.38	7.4	5.06	1.58	69.8	P
MW-11	21-Nov-02	5439.67		6.01			5433.66	7.4	4.48	0.85	60.3	P
MW-11	5-Jun-03	5439.67		5.94			5433.73	7.8	3.7	1.16	60.7	B
MW-11	20-Jan-04	5439.67		5.62			5434.05	7.3	0.45	3.62	44.5	P
MW-11	25-May-04	5439.67		5.85			5433.82	7.6	4.04	2.16	70.4	3
MW-11	28-Jul-04	5439.67		6.11			5433.56	7.78	5		65.9	B
MW-11	29-Dec-04	5439.67		5.95			5433.72					MP
MW-11	31-Mar-05	5439.67	Surface Casing Damaged By Vandals - Top of Casing Broken Off -- NS									
MW-11	19-Sep-05	5439.67	Surface Casing Damaged By Vandals - Top of Casing Broken Off -- NS									

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-11	02-Jan-07	5439.67	Surface Casing Damaged By Vandals - Top of Casing Broken Off -- NS									
MW-12	31-Jan-02	5446.09		14.09			5432.00					P
MW-12	26-Jul-02	5446.09		14.35			5431.74	7.0	3.08	2.74	75.3	P
MW-12	3-Dec-02	5446.09		14.34			5431.75	6.9	4.01	1.21	54.4	P
MW-12	5-Jun-03	5446.09		13.72			5432.37	7.1	5.20	0.98	64.6	P
MW-12	20-Jan-04	5446.09	14.06	14.19	0.13		5431.81					No Sample
MW-12	25-May-04	5446.09	13.73	13.76	0.03		5432.31					MP
MW-12	28-Jul-04	5446.09	14.04	14.20	0.16		5431.77					No Sample
MW-12	30-Dec-04	5446.09	14.14	14.89	0.75		5430.65					MP
MW-12	31-Mar-05	5446.09	13.99	13.86	1.16		5431.38	No Water Quality Parameters / FP				
MW-12	19-Sep-05	5446.09	14.15	14.85	0.70		5430.73	No Water Quality Parameters / FP				
MW-12	05-Jan-06	5446.09	14.06	14.58	0.52		5431.13	NM	NM	NM	NM	No Purge
MW-12	28-Jun-06	5446.09	13.94	14.12	0.18		5431.84	NM	NM	NM	NM	No Purge
MW-12	02-Jan-07	5446.09	13.94	14.12	0.18		5431.84	NM	NM	NM	NM	No Sample
MW-13	26-Jul-02	5452.12		17.54			5434.58	7.2	5.51	0.47	66	P
MW-13	03-Dec-02	5452.12		17.51			5434.61	7.3	3.09	0.98	51.6	P
MW-13	05-Jun-03	5452.12		17.06			5435.06	7.3	4.11	0.91	62.4	P
MW-13	20-Jan-04	5452.12		17.52			5434.60	7.3	2.39	1.48	48.5	P
MW-13	25-May-04	5452.12		17.20			5434.92	7.3	4.13	0.65	63.7	3
MW-13	28-Jul-04	5452.12		17.65			5434.47	7.6	5.79		68	B
MW-13	30-Dec-04	5452.12		17.66			5434.46					MP
MW-13	31-Mar-05	5452.12		17.34			5434.78	7	3.485	0.64	57.9	MP
MW-13	19-Sep-05	5452.12		17.78			5434.34	7.3	4.929	0.26	61.8	
MW-13	03-Jan-06	5452.12		17.54			5434.58	7.4	4.309	0.34	17.9	3
MW-13	02-Jan-07	5452.12		17.38			5434.74	NM	NM	NM	NM	No Sample
MW-14	01-Feb-02	5446.93		12.22			5434.71					No Sample
MW-14	29-Jul-02	5446.93	12.39	13.29	0.90		5432.98					No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-14	06-Jun-03	5446.93		11.95			5434.98					No Sample
MW-14	21-Jan-04	5446.93		12.40			5434.53					No Sample
MW-14	25-May-04	5446.93		12.14			5434.79					No Sample
MW-14	28-Jul-04	5446.93		NS			NS					No Sample
MW-14	03-Jan-05	5446.93		12.51			5434.42					No Sample
MW-14	08-Apr-05	5446.93		12.18			5434.75					No Sample
MW-14	19-Sep-05	5446.93		12.65			5434.28	NM	NM	NM	NM	No Sample
MW-14	03-Jan-06	5446.93		12.40			5434.53	7.5	3.853	0.6	18	3
MW-14	28-Jun-06	5446.93		12.26			5434.67	6.6	4.340	0.54	17.2	3
MW-14	28-Dec-06	5446.93		12.21			5434.72	7.0	8.089	0.02	13.9	3
MW-15	03-May-01	5449.28		11.89			5437.39	7.3	2.21	4.2	53.8	1.4
MW-15	31-Jan-02	5449.28		12.49			5436.79					
MW-15	26-Jul-02	5449.28		12.69			5436.59	7.7	2.69	1.04	78.4	P
MW-15	03-Dec-02	5449.28		12.69			5436.59	7.6	3.55	1.50	53.9	P
MW-15	05-Jun-03	5449.28		12.26			5437.02	7.7	4.3	1.60	61.5	P
MW-15	20-Jan-04	5449.28		12.71			5436.57	7.3	2.17	1.91	48.2	P
MW-15	25-May-04	5449.28		12.49			5436.79	7.5	2.87	2.19	62.8	3
MW-15	28-Jul-04	5449.28		12.93			5436.35	7.48	4.4		60.8	B
MW-15	29-Dec-04	5449.28		12.58			5436.70					MP
MW-15	31-Mar-05	5449.28		12.31			5436.97	7.2	3.112	1.43	53.9	MP
MW-15	19-Sep-05	5449.28		12.98			5436.30	7.1	2.877	0.63	62.7	
MW-15	3-Jan-06	5449.28		12.48			5436.80	7.5	2.271	1.09	12.2	3
MW-15	02-Jan-07	5449.28		12.34			5436.94	NM	NM	NM	NM	No Sample
MW-16	1-Feb-02	5442.63		5.78			5436.85					No Sample
MW-16	26-Jul-02	5442.63	Well Destroyed									
MW-17	1-Feb-02	5435.20		5.78			5429.42					No Sample
MW-17	29-Jul-02	5435.20		5.96			5429.24					No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-17	6-Jun-03	5435.20		5.62			5429.58					No Sample
MW-17	21-Jan-04	5435.20		5.85			5429.35					No Sample
MW-17	26-May-04	5435.20		5.69			5429.51					No Sample
MW-17	28-Jul-04	5435.20	5.99	6.07	0.08		5429.07					No Sample
MW-17	03-Jan-05	5435.20		5.83			5429.37					No Sample
MW-17	31-Mar-05	5435.20		5.43			5429.77					No Sample
MW-17	19-Sep-05	5435.20		5.90			5429.30	NM	NM	NM	NM	No Sample
MW-17	05-Jan-06	5435.20		5.76			5429.44	NM	NM	NM	NM	No Sample
MW-17	27-Jun-06	5435.20		5.91			5429.29	6.6	4.548	0.03	19.8	3
MW-17	28-Dec-06	5435.20		5.64			5429.56	6.8	9.582	0.05	11.7	3
MW-18	02-May-01	5428.95		4.32			5424.63	7.1	1.46	4.26	64.22	5.2
MW-18	31-Jul-01	5428.95		4.84			5424.11	7.9	1.44	12.55	67.46	5
MW-18	30-Jan-02	5428.95		4.61			5424.34					
MW-18	25-Jul-02	5428.95		4.79			5424.16	3.91	3.91	0.33	72.02	P
MW-18	20-Nov-02	5428.95		4.27			5424.68	2.97	1.17		58.5	P
MW-18	05-Jun-03	5428.95		4.24			5424.71	7.8	3.28	0.86	62.0	B
MW-18	19-Jan-04	5428.95		4.62			5424.33	7.7	2.58	0.56	51.1	P
MW-18	25-May-04	5428.95		4.28			5424.67	7.7	3.55		64.9	4
MW-18	27-Jul-04	5428.95		5.54			5423.41	7.7	4.46		77.2	B
MW-18	28-Dec-04	5428.95		4.47			5424.48					MP
MW-18	31-Mar-05	5428.95		3.57			5425.38	7.2	2.823	0.75	58.2	MP
MW-18	19-Sep-05	5428.95		4.38			5424.57	7.3	4.223	0.62	69.0	
MW-18	4-Jan-06	5428.95		4.10			5424.85	7.6	3.206	0.48	10.4	1.5
MW-18	27-Jun-06	5428.95		4.63			5424.32	6.9	4.169	0.35	17.0	3
MW-18	28-Dec-06	5428.95		3.83			5425.12	7.3	9.169	1.33	10.8	3
MW-19	31-Jan-02	5428.69		5.87			5422.82					
MW-19	25-Jul-02	5428.69		4.35			5424.34	7.1	5.74	1.01	74.9	P
MW-19	20-Nov-02	5428.69		3.75			5424.94	7.2	1.41	1.22	56.9	P

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-19	5-Jun-03	5428.69		3.90			5424.79	7.3	3.51	1.34	61.0	B
MW-19	19-Jan-04	5428.69		4.09			5424.60	7.4	0.29	2.89	46.6	P
MW-19	25-May-04	5428.69		3.90			5424.79	7.0	2.24	0.35	61.9	0.5
MW-19	27-Jul-04	5428.69		4.31			5424.38	7.1	5.14		71.1	B
MW-19	28-Dec-04	5428.69		4.04			5424.65	7.3				MP
MW-19	31-Mar-05	5428.69		3.60			5425.09	6.9	2.091	1.5	54.7	MP
MW-19	19-Sep-05	5428.69		3.96			5424.73	7.1	4.125	0.4	68.1	
MW-19	4-Jan-06	5428.69		3.81			5424.88	7.1	3.338	0.4	10.6	1.5
MW-19	02-Jan-07	5428.69		3.69			5425.00	NM	NM	NM	NM	No Sample
MW-20	31-Jan-02	5430.45		6.04			5424.41					P
MW-20	26-Jul-02	5430.45		6.31			5424.14	7.2	2.95	1.22	79.6	P
MW-20	20-Nov-02	5430.45		5.85			5424.60	7.1	1.9	0.30	55.0	P
MW-20	5-Jun-03	5430.45		5.89			5424.56	7.1	3.43	1.58	58.1	
MW-20	20-Jan-04	5430.45		6.08			5424.37	7.5	0.35	3.23	51.8	P
MW-20	25-May-04	5430.45		5.90			5424.55	7.1	4.01	1.2	72.3	1.5
MW-20	27-Jul-04	5430.45		6.29			5424.16	7.0	5.12		66.1	B
MW-20	29-Dec-04	5430.45		6.07			5424.38					MP
MW-20	1-Apr-05	5430.45		5.69			5424.76	6.5	2.378	0.55	54.4	
MW-20	19-Sep-05	5430.45		6.02			5424.43	7.0	3.466	0.37	66.1	
MW-20	4-Jan-06	5430.45		5.85			5424.60	7.0	3.47	0.6	12.3	3
MW-20	28-Jun-06	5430.45		6.18			5424.27	6.7	4.979	0.34	17.8	3
MW-20	28-Dec-06	5430.45		5.50			5424.95	7.0	8.505	0.51	8.9	3
MW-21	30-Jan-02	5428.62		3.41			5425.21					P
MW-21	26-Jul-02	5428.62		4.15			5424.47					
MW-21	22-Nov-02	5428.62		3.51			5425.11	7.1	7.58	0.55	55.0	P
MW-21	5-Jun-03	5428.62		3.21			5425.41	7.2	7.79	0.95	65.4	
MW-21	20-Jan-04	5428.62		3.57			5425.05	7.4	0.31	3.40	46.7	P
MW-21	25-May-04	5428.62		3.49			5425.13	7.2	7.56	0.49	64.5	1.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-21	28-Jul-04	5428.62		4.12			5424.50	7.3	11.42		67.1	B
MW-21	29-Dec-04	5428.62		3.36			5425.26					MP
MW-21	1-Apr-05	5428.62		2.77			5425.85	6.7	5.747	0.28	50.9	
MW-21	19-Sep-05	5428.62		3.84			5424.78	7.2	8.598	0.39	67.8	
MW-21	4-Jan-06	5428.62		3.27			5425.35	7.1	6.118	0.77	11.9	3
MW-21	28-Jun-06	5428.62		3.81			5424.81	6.8	9.223	0.32	19.8	3
MW-21	02-Jan-07	5428.62		3.23			5425.39	6.7	9.393	0.9	8.2	3
MW-22	2-May-01	5430.75		4.01			5426.74	6.9	2	3.57	65.1	5.2
MW-22	31-Jul-01	5430.75		5.25			5425.50	6.1	2.8	16.1	74.1	5
MW-22	31-Jan-02	5430.75		4.55			5426.20					P
MW-22	26-Jul-02	5430.75		4.93			5425.82	7.3	7.9	1.24	73.0	P
MW-22	22-Nov-02	5430.75		4.21			5426.54	7.5	6.51	0.8	54.6	P
MW-22	5-Jun-03	5430.75		4.15			5426.60	7.3	4.75	0.6	61.5	B
MW-22	20-Jan-04	5430.75		4.49			5426.26	7.1	4.19	0.43	46.4	P
MW-22	25-May-04	5430.75		5.68			5425.07	7.2	6.95	0.16	63.3	1.5
MW-22	28-Jul-04	5430.75		5.29			5425.46	7.5	9.78		70.1	B
MW-22	29-Dec-04	5430.75		4.33			5426.42					MP
MW-22	1-Apr-05	5430.75		4.06			5426.69	6.9	5.531	0.34	49.6	
MW-22	19-Sep-05	5430.75		4.91			5425.84	7.2	8.496	0.28	66.8	
MW-22	4-Jan-06	5430.75		4.38			5426.37	7.3	6.476	0.04	10.3	2.5
MW-22	28-Jun-06	5430.75		4.08			5426.67	6.7	9.906	0.19	19.0	1.5
MW-22	02-Jan-07	5430.75		4.35			5426.40	7.0	12.72	3.00	7.9	
MW-23	1-Feb-02	5449.34	Dry	Dry								No Sample
MW-23	29-Jul-02	5449.34	Dry	Dry								No Sample
MW-23	6-Jun-03	5449.34	Dry	Dry								No Sample
MW-23	21-Jan-04	5449.34	Dry	Dry								No Sample
MW-23	26-May-04	5449.34	Dry	Dry								No Sample
MW-23	28-Jul-04	5449.34	Dry	Dry								No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-23	03-Jan-05	5449.34	Dry	Dry								No Sample
MW-23	08-Apr-05	5449.34	Dry	Dry								No Sample
MW-23	19-Sep-05	5449.34	Dry	Dry								No Sample
MW-24	01-Feb-02	5449.23		16.05			5433.18					No Sample
MW-24	29-Jul-02	5449.23		15.37			5433.86					No Sample
MW-24	21-Jan-04	5449.23		16.22			5433.01					No Sample
MW-24	26-May-04	5449.23		15.75			5433.48					No Sample
MW-24	28-Jul-04	5449.23		16.22			5433.01					No Sample
MW-24	03-Jan-05	5449.23		16.42			5432.81					No Sample
MW-24	01-Apr-05	5449.23		16.01			5433.22					
MW-24	19-Sep-05	5449.23		16.49			5432.74	NM	NM	NM	NM	No Sample
MW-24	05-Jan-06	5449.23		16.41			5432.82	NM	NM	NM	NM	No Sample
MW-24	02-Jan-07	5449.23		16.17			5433.06	NM	NM	NM	NM	No Sample
MW-25	01-Feb-02	5448.74		15.33			5433.41					No Sample
MW-25	29-Jul-02	5448.74		16.15			5432.59					No Sample
MW-25	06-Jun-03	5448.74		15.50			5433.24					No Sample
MW-25	21-Jan-04	5448.74		15.70			5433.04					No Sample
MW-25	26-May-04	5448.74		15.63			5433.11					No Sample
MW-25	28-Jul-04	5448.74		15.59			5433.15					No Sample
MW-25	03-Jan-05	5448.74		15.90			5432.84					No Sample
MW-25	31-Mar-05	5448.74		15.83			5432.91					No Sample
MW-25	19-Sep-05	5448.74		15.75			5432.99	NM	NM	NM	NM	No Sample
MW-25	05-Jan-06	5448.74		15.85			5432.89	NM	NM	NM	NM	No Sample
MW-25	02-Jan-07	5448.74		15.80			5432.94	NM	NM	NM	NM	No Sample
MW-26		5447.26	DESTROYED									
MW-27	1-Feb-02	5449.01	Dry	Dry								

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-27	29-Jul-02	5449.01	Dry	Dry								
MW-27	6-Jun-03	5449.01	15.40	15.93	0.53		5432.69					No Sample
MW-27	21-Jan-04	5449.01	Dry	Dry								No Sample
MW-27	26-May-04	5449.01	Dry	Dry								No Sample
MW-27	28-Jul-04	5449.01	Dry	Dry								No Sample
MW-27	03-Jan-05	5449.01	Dry	Dry								No Sample
MW-27	08-Apr-05	5449.01	Dry	Dry								No Sample
MW-27	19-Sep-05	5449.01	Dry	Dry								No Sample
MW-28	01-Feb-02	5449.07		15.95			5433.12					No Sample
MW-28	29-Jul-02	5449.07		15.97			5433.10					No Sample
MW-28	06-Jun-03	5449.07	15.77	15.8	0.03		5433.25					No Sample
MW-28	21-Jan-04	5449.07	16.94	16.96	0.02		5432.10					No Sample
MW-28	26-May-04	5449.07	15.56	15.96	0.40		5432.82					No Sample
MW-28	28-Jul-04	5449.07	Dry	DRY								No Sample
MW-28	03-Jan-05	5449.07		16.01			5433.06					No Sample
MW-28	08-Apr-05	5449.07	Dry	Dry								No Sample
MW-28	19-Sep-05	5449.07	Dry	Dry								No Sample
MW-28	05-Jan-06	5449.07	Dry	Dry								No Sample
MW-28	02-Jan-07	5449.07		16.01			5433.06	NM	NM	NM	NM	No Sample
MW-29	02-Feb-02	5447.94		15.19			5432.75					No Sample
MW-29	29-Jul-02	5447.94		15.30			5432.64					No Sample
MW-29	06-Jun-03	5447.94	15.77	15.80	0.03		5432.12					No Sample
MW-29	21-Jan-04	5447.94	15.28	16.05	0.77		5431.33					No Sample
MW-29	26-May-04	5447.94	14.91	15.09	0.18		5432.72					No Sample
MW-29	28-Jul-04	5447.94	15.29	15.75	0.46		5431.85					No Sample
MW-29	03-Jan-05	5447.94	15.34	16.31	0.97		5430.92					No Sample
MW-29	01-Apr-05	5447.94	15.07	15.44	0.37		5432.23					No Sample
MW-29	19-Sep-05	5447.94	15.37	16.20	0.83		5431.13	NM	NM	NM	NM	No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
MW-29	05-Jan-06	5447.94	15.42	16.00	0.58		5431.52	NM	NM	NM	NM	No Purge
MW-29	28-Jun-06	5447.94	15.1	15.15	0.05		5432.75	NM	NM	NM	NM	No Purge
MW-29	02-Jan-07	5447.94	15.16	15.72	0.56		5431.81	NM	NM	NM	NM	No Sample
RW-24	01-Feb-02	5447.73		16.17			5431.56					No Sample
RW-24	29-Jul-02	5447.73		15.78			5431.95					No Sample
RW-24	06-Jun-03	5447.73		15.40			5432.33					No Sample
RW-24	21-Jan-04	5447.73	15.77	16.54	0.77		5430.63					No Sample
RW-24	26-May-04	5447.73	15.50	15.50	0.00		5432.23					No Sample
RW-24	28-Jul-04	5447.73	15.70	16.35	0.65		5430.91					No Sample
RW-24	03-Jan-05	5447.73	15.85	16.90	1.05		5430.06					No Sample
RW-24	31-Mar-05	5447.73	15.63	15.75	0.12		5431.89					No Sample
RW-24	19-Sep-05	5447.73	15.81	16.90	1.09		5430.04	NM	NM	NM	NM	No Sample
RW-24	05-Jan-06	5447.73	15.82	16.58	0.76		5430.60	7	5.176	0.1	19	
RW-24	28-Jun-06	5447.73	15.65	15.91	0.26		5431.63	NM	NM	NM	NM	No Sample
RW-24	02-Jan-07	5447.73	15.66	16.25	0.59		5431.05	NM	NM	NM	NM	No Sample
RW-25	01-Feb-02	5448.68		16.45			5432.23					No Sample
RW-25	29-Jul-02	5448.68		16.55			5432.13					No Sample
RW-25	06-Jun-03	5448.68		16.09			5432.59					No Sample
RW-25	21-Jan-04	5448.68	16.51	16.83	0.32		5431.62					No Sample
RW-25	26-May-04	5448.68	16.23	16.25	0.02		5432.42					No Sample
RW-25	28-Jul-04	5448.68	16.50	16.52	0.02		5432.15					No Sample
RW-25	03-Jan-05	5448.68	16.63	17.65	1.02		5430.29					No Sample
RW-25	31-Mar-05	5448.68	16.27	16.7	0.43		5431.67					No Sample
RW-25	19-Sep-05	5448.68	16.55	17.54	0.99		5430.42	NM	NM	NM	NM	No Sample
RW-25	05-Jan-06	5448.68	16.45	17.37	0.92		5430.64	7	3.501	0.15	14	
RW-25	02-Jan-07	5448.68	16.35	16.85	0.50		5431.47	NM	NM	NM	NM	No Sample
RW-26	01-Feb-02	5443.98		14.65			5429.33					No Sample

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)*	GW Elev. (ft amsl)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°F)	Purge Volume (gallons)
RW-26	29-Jul-02	5443.98	14.11	14.11	0.88		5429.23					No Sample
RW-26	21-Jan-04	5443.98	14.24	14.54	0.30		5429.22					No Sample
RW-26	26-May-04	5443.98		13.85			5430.13					No Sample
RW-26	28-Jul-04	5443.98	14.24	14.29	0.05		5429.65					No Sample
RW-26	03-Jan-05	5443.98	14.35	14.90	0.55		5428.68					No Sample
RW-26	31-Mar-05	5443.98		14.03			5429.95					No Sample
RW-26	19-Sep-05	5443.98	14.43	14.62	0.19		5429.22	NM	NM	NM	NM	No Sample
RW-26	05-Jan-06	5443.98	14.36	14.54	0.18		5429.31	6.9	4.898	0.2	18.9	
RW-26	28-Jun-06	5443.98		14.08			5429.90	6.5	3.895	0.04	18.5	3
RW-26	02-Jan-07	5443.98	14.17	14.18	0.01		5429.79	NM	NM	NM	NM	No Sample
T-17-1	01-Feb-02	5452.41		17.60			5434.81					No Sample
T-17-1	29-Jul-02	5452.41		17.73			5434.68					No Sample
T-17-1	06-Jun-03	5452.41		17.22			5435.19					No Sample
T-17-1	21-Jan-04	5452.41		17.79			5434.62					No Sample
T-17-1	26-May-04	5452.41		17.42			5434.99					No Sample
T-17-1	29-Jul-04	5452.41		18.09			5434.32					No Sample
T-17-1	03-Jan-05	5452.41		17.96			5434.45					No Sample
T-17-1	08-Apr-05	5452.41		17.61			5434.80					No Sample
T-17-1	19-Sep-05	5452.41		17.97			5434.44	NM	NM	NM	NM	No Sample
T-17-1	03-Jan-06	5452.41		17.9			5434.51	NM	NM	NM	NM	No Sample
T-17-1	02-Jan-07	5452.41	DRY	DRY			DRY	NM	NM	NM	NM	No Sample

NOTES: NM - Not Measured
P - Purged 3 Well Volumes
MP - Micro-Purge
B - Sample Collected with Disposable Bailer
A.S. INF - Airstripper Influent
A.S. EFF - Airstripper Effluent

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	GRO C6-C10 (mg/L)	DRO C10-C22 (mg/L)
NM WQCC STANDARD		10	750	750	620	100	NE	NE
A.S. INF	5/30/2001	**940**	79	290	**920**	**200**	NA	
A.S. INF	7/31/2001	**1600**	210	520	**1610**	**250**	NA	
A.S. INF	11/1/2001	**1200**	430	430	**1290**	**270**	NA	
A.S. INF	12/4/2001	**520**	240	430	**1130**	NA	NA	
A.S. INF	1/31/2002	**520**	120	360	**850**	**200**	NA	
A.S. INF	2/28/2002	**890**	90	370	**1030**	**150**	NA	
A.S. INF	3/29/2002	**690**	51	300	**879**	**130**	NA	
A.S. INF	4/26/2002	**950**	81	310	**899**	**310**	NA	
A.S. INF	5/22/2002	**900**	63	290	**817**	**270**	NA	
A.S. INF	6/24/2002	**770**	200	350	158	**200**	NA	
A.S. INF	8/27/2002	**1500**	120	370	**800**	**170**	NA	
A.S. INF	9/30/2002	**1200**	**2200**	**990**	**850**	**110**	NA	
A.S. INF	10/29/2002	**310**	59	220	380	82	NA	
A.S. INF	11/29/2002	**340**	150	260	470	86	NA	
A.S. INF	12/30/2002	**290**	280	244	430	**120**	NA	
A.S. INF	2/3/2003	**390**	75	190	220	**120**	NA	
A.S. INF	3/10/2003	**430**	**2200**	590	**1800**	**110**	NA	
A.S. INF	4/2/2003	**540**	82	290	580	**120**	NA	
A.S. INF	4/29/2003	**530**	62	240	560	**130**	NA	
A.S. INF	6/5/2003	**380**	71	320	**630**	**110**	NA	
A.S. INF	6/30/2003	**510**	310	290	550	**140**	NA	
A.S. INF	8/15/2003	**40**	29	120	190	<25	NA	
A.S. INF	10/2/2003	**370**	19	270	340	80	NA	
A.S. INF	11/4/2003	**190**	11	90	72	81	NA	
A.S. INF	12/23/2003	**610**	**1200**	450	**950**	**140**	NA	
A.S. INF	1/20/2004	**300**	510	340	**790**	88	NA	
A.S. INF	2/27/2004	**630**	700	270	**620**	**110**	7.6	
A.S. INF	3/31/2004	**610**	220	260	410	**130**	6.1	
A.S. INF	4/28/2004	**440**	700	340	**880**	82	8.2	
A.S. INF	5/25/2004	**640**	150	270	380	**130**	5.9	
A.S. INF	6/30/2004	**370**	59	210	220	**140**	3.8	
A.S. INF	7/29/2004	**420**	170	350	540	**110**	6.8	
A.S. INF	8/31/2004	**550**	390	250	310	95	4.9	
A.S. INF	9/29/2004	**240**	120	190	150	49	3.2	
A.S. INF	11/30/2004	**98**	120	150	170	57	2.7	
A.S. INF	12/30/2004	**81**	44	120	170	78	2.5	
A.S. INF	1/31/2005	**1100**	**1700**	260	600	**120**	9.1	
A.S. INF	4/8/2005	**2800**	**11000**	**1700**	**5100**	<25	37	

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	GRO C6-C10 (mg/L)	DRO C10-C22 (mg/L)
NM WQCC STANDARD		10	750	750	620	100	NE	NE
A.S. INF	5/20/2005	**360**	**1200**	300	**790**	85	6.9	
A.S. INF	7/27/2005	**810**	**1900**	**1800**	**5200**	**140**	40	
A.S. INF	9/19/2005	**64**	260	370	**1200**	62	6.3	
A.S. INF	10/31/2005	**190**	**1800**	480	**1600**	<25	9.5	
A.S. INF	1/5/2006	**57**	320	270	**720**	39	3.9	1.7
A.S. INF	3/24/2006	**57**	28	93	320	**120**	3.2	NS
A.S. INF	4/19/2006	**21**	14	96	270	<25	2.7	NS
A.S. INF	5/19/2006	**69**	<5.0	73	210	**110**	4.5	NS
A.S. INF	6/28/2006	**40**	1.1	16	23	38	0.54	NS
A.S. INF	7/31/2006	**95**	<5.0	120	150	79	6.4	NS
A.S. INF	8/30/2006	**280**	<5.0	92	32	**150**	1.7	NS
A.S. INF	9/28/2006	**170**	<5.0	92	120	**140**	1.8	NS
A.S. INF	11/30/2006	**29**	<5.0	49	20	<25	0.96	NS
A.S. INF	1/2/2007	**38**	<2.5	35	11	36	1.3	<1.0
A.S. EFF	5/30/2001	<0.50	<0.50	<0.50	<1.50	5.6	NA	
A.S. EFF	7/31/2001	0.9	<0.50	<0.50	1.1	<1.00	NA	
A.S. EFF	11/1/2001	4.7	10	3.9	18.5	21	NA	
A.S. EFF	12/4/2001	<0.50	<0.50	0.6	<1.50		NA	
A.S. EFF	1/31/2002	0.8	5.1	1.8	8.5	2.3	NA	
A.S. EFF	3/29/2002	1.6	ND	ND	ND	6.3	NA	
A.S. EFF	4/26/2002	0.7	1	ND	ND	14	NA	
A.S. EFF	5/22/2002	2.9	5.5	0.9	3.7	97	NA	
A.S. EFF	6/24/2002	0.6	0.5	2.1	4	24	NA	
A.S. EFF	8/27/2002	0.6	0.8	ND	1.3	16	NA	
A.S. EFF	9/30/2002	ND	0.6	0.6	1.1	7.5	NA	
A.S. EFF	10/29/2002	ND	ND	ND	ND	ND	NA	
A.S. EFF	11/29/2002	ND	ND	ND	ND	ND	NA	
A.S. EFF	12/30/2002	ND	2.2	1.3	4.9	ND	NA	
A.S. EFF	2/4/2003	ND	ND	ND	1.8	ND	NA	
A.S. EFF	3/10/2003	1	5.9	2.3	8.2	5.1	NA	
A.S. EFF	4/2/2003	ND	ND	0.8	2.3	ND	NA	
A.S. EFF	4/29/2003	ND	ND	ND	1.4	ND	NA	
A.S. EFF	6/5/2003	<0.6	<0.50	0.6	1.4	ND	NA	
A.S. EFF	6/30/2003	ND	1.3	1.1	4	ND	NA	
A.S. EFF	8/15/2003	ND	ND	ND	ND	ND	NA	
A.S. EFF	10/2/2003	ND	ND	ND	ND	ND	NA	
A.S. EFF	11/4/2003	ND	ND	ND	ND	ND	NA	

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
A.S. EFF	12/23/2004	0.9	5.3	1.5	5.4	3.1	NA	
A.S. EFF	1/20/2004	0.9	3.3	1.4	4.8	2.9	NA	
A.S. EFF	2/27/2004	<0.5	0.8	<0.5	1.7	<2.5	<0.10	
A.S. EFF	3/31/2004	2.2	2.4	1.1	3.5	<2.5	<0.10	
A.S. EFF	4/28/2004	<0.5	0.6	<0.5	1.6	<2.5	<0.10	
A.S. EFF	5/25/2004	1.5	4.6	1.3	4.4	<2.5	0.12	
A.S. EFF	6/30/2004	0.7	0.6	0.7	1.8	<2.5	<0.10	
A.S. EFF	7/29/2004	<0.5	<0.5	0.5	<1.0	<2.5	<0.10	
A.S. EFF	8/31/2004	0.9	1.1	<0.5	1.0	<2.5	<0.10	
A.S. EFF	9/29/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
A.S. EFF	11/30/2004	0.5	5.4	3.0	7.8	<2.5	<0.10	
A.S. EFF	12/30/2004	<0.5	1.0	0.6	2.4	2.6	<0.10	
A.S. EFF	1/31/2005	1.1	1.9	<0.5	1.7	<2.5	<0.10	
A.S. EFF	4/8/2005	4.9	30	8.3	36	2.5	0.25	
A.S. EFF	5/20/2005	0.6	2.0	0.5	2.7	<2.5	<0.10	
A.S. EFF	7/27/2005	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
A.S. EFF	9/19/2005	<0.5	1.0	1.6	7.6	<2.5	<0.10	
A.S. EFF	10/31/2005	<0.5	2.1	0.6	2.6	<2.5	<0.10	
A.S. EFF	1/5/2006	<0.5	3.5	2.2	8.1	1.9	<0.10	<1.0
A.S. EFF	3/24/2006	<1.0	<1.0	<1.0	<4.0	10	0.10	NS
A.S. EFF	4/19/2006	<0.5	<1.0	<0.5	<2.0	<2.5	<0.10	NS
A.S. EFF	5/19/2006	<0.5	<0.5	<0.5	<2.0	6.8	0.18	NS
A.S. EFF	6/28/2006	<0.5	<0.5	<0.5	<2.0	20	<0.10	NS
A.S. EFF	7/31/2006	<2.5	<2.5	7.2	21	<13	2.7	NS
A.S. EFF	8/30/2006	2.4	0.60	1.9	<2.0	40	0.18	NS
A.S. EFF	9/28/2006	<0.5	<0.5	2.2	7.8	27	0.58	NS
A.S. EFF	11/30/2006	<0.5	<0.5	<0.5	<2.0	<2.5	<0.10	NS
A.S. EFF	1/2/2007	<0.5	<0.5	<0.5	<2.0	<2.5	<0.10	<1.0
MW-1	2/4/2002	Not Sampled/ Free Product						
MW-1	1/3/2006	**19**	<0.5	<0.5	<2.0	3.3	0.11	<1.0
MW-1	6/28/2006	7.4	<0.5	<0.5	<2.0	<2.5	0.10	<2.5
MW-1	12/28/2006	**4700**	2.3	110	27	16	14	<1.0
MW-2	1/5/2006	**690**	<10	360	**1300**	39	13	120
MW-2	6/28/2006	**360**	<2.5	150	45	50	2.9	210
MW-3	1/5/2006	**870**	<25	**1300**	**5500**	**150**	**110**	72
MW-3	1/2/2007	**640**	9.0	110	170	**120**	3.4	3.9

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
MW-4	7/25/2002	7.9	ND	0.9	0.6	31	NA	
MW-4	11/26/2002	6.1	ND	ND	1.1	18	NA	
MW-4	6/5/2003	6.6	ND	ND	ND	18	NA	
MW-4	11/3/2003	2.1	ND	ND	ND	17	NA	
MW-4	1/19/2004	2.2	0.6	<0.5	1.3	27	NA	
MW-4	5/25/2004	3.9	<0.5	<0.5	1.8	26	0.20	
MW-4	7/27/2004	2.0	<0.5	<0.5	<1.0	15	0.12	
MW-4	12/28/2004	1.5	<0.5	<0.5	<1.0	11	<0.10	
MW-4	9/19/2005	1.2	<0.5	<0.5	<1.0	20	0.11	
MW-4	1/4/2006	0.7	<0.5	<0.5	<2.0	22	<0.10	<1.0
MW-5	1/30/2002	5.1	<0.5	<0.5	<1.50	43	NA	
MW-5	7/25/2002	4.7	ND	ND	ND	51	NA	
MW-5	11/26/2002	5.1	ND	ND	ND	47	NA	
MW-5	6/5/2003	1.5	ND	ND	ND	25	NA	
MW-5	11/3/2003	ND	ND	ND	ND	26	NA	
MW-5	1/19/2004	3.8	0.9	<0.5	1.4	44	NA	
MW-5	5/25/2004	1.8	0.5	<0.5	<1.0	36	0.14	
MW-5	7/27/2004	<0.5	<0.5	<0.5	<1.0	29	<0.10	
MW-5	12/28/2004	<0.5	<0.5	<0.5	<1.0	27	<0.10	
MW-5	6/27/2006	1.5	<0.5	<0.5	<2.0	37	<0.10	<2.5
MW-5	12/28/2006	<0.5	<0.5	<0.5	<2.0	37	<0.10	<1.0
MW-6	1/30/2002	<0.5	<0.5	<0.5	<1.5	2.5	NA	
MW-6	7/26/2002	3.4	0.7	0.5	ND	23	NA	
MW-6	11/26/2002	ND	ND	ND	ND	30	NA	
MW-6	6/5/2003	0.8	ND	ND	ND	11	NA	
MW-6	11/3/2003	ND	ND	ND	ND	30	NA	
MW-6	1/19/2004	<0.5	0.7	<0.5	<1.0	9.2	NA	
MW-6	5/25/2004	<0.5	1.0	<0.5	<1.0	28	0.11	
MW-6	7/27/2004	0.8	<0.5	<0.5	1.1	61	0.21	
MW-6	12/28/2004	<0.5	<0.5	<0.5	<1.0	19	<0.10	
MW-6	9/19/2005	1.9	<0.5	0.5	<1.0	66	0.22	
MW-6	1/4/2006	<0.5	<0.5	<0.5	<2.0	11	<0.10	<1.0
MW-7	1/19/2004	<0.5	<0.5	<0.5	1.6	**210**	NA	
MW-7	5/25/2004	<0.5	<0.5	<0.5	<1.0	**190**	0.25	
MW-7	7/27/2004	<0.5	<0.5	<0.5	1.3	**190**	0.27	
MW-7	12/29/2004	<0.5	<0.5	<0.5	<1.0	**150**	0.14	
MW-7	9/19/2005	<0.5	<0.5	<0.5	<1.0	**140**	0.14	
MW-7	1/4/2006	1.9	<0.5	1.7	2.1	**120**	0.16	<1.0
MW-8	1/30/2002	<0.5	<0.5	<0.5	<1.5	<1.0	NA	
MW-8	7/26/2002	ND	ND	ND	ND	1.4	NA	
MW-8	11/26/2002	0.9	ND	ND	ND	**230**	NA	

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
MW-8	6/5/2003	1.3	ND	ND	ND	**190**	NA	
MW-8	11/4/2003	ND	ND	ND	ND	**170**	NA	
MW-8	Well Not Found							
MW-8	1/4/06	<0.5	<0.5	<0.5	<2.0	**136**	0.10	<1.0
MW-9	1-30-02	5.5	1.6	1.7	<1.5	26	NA	
MW-9	11-26-02	ND	ND	ND	ND	ND	NA	
MW-9	6-05-03	ND	ND	ND	ND	ND	NA	
MW-9	11-04-03	ND	ND	ND	ND	ND	NA	
MW-9	1/19/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-9	5/25/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-9	7/28/2004	<0.5	<0.5	<0.5	1.0	<2.5	<0.10	
MW-9	12/29/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-9	9/19/2005	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-9	1/4/2006	<0.5	<0.5	<0.5	<2.0	<0.5	<0.10	<1.0
MW-10	7/26/2002	ND	ND	ND	ND	ND	NA	
MW-10	11/26/2002	ND	ND	ND	ND	ND	NA	
MW-10	6/5/2003	ND	ND	ND	ND	ND	NA	
MW-10	11/4/2003	ND	ND	ND	ND	ND	NA	
MW-10	1/19/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-10	5/25/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-10	7/28/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-10	12/29/2004	<0.5	1.6	0.6	3.1	<2.5	<0.10	
MW-10	9/19/2005	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-10	1/3/2006	<0.5	<0.5	<0.5	<2.0	<0.5	<0.10	<1.0
MW-10	6/28/2006	<0.5	<0.5	<0.5	<2.0	<2.5	<0.10	<2.5
MW-10	12/28/2006	<0.5	<0.5	<0.5	<2.0	<2.5	<0.10	<1.0
MW-11	1/30/2002	<0.5	<0.5	<0.5	<1.5	<1.0	NA	
MW-11	7/26/2002	ND	ND	ND	ND	ND	NA	
MW-11	11/26/2002	ND	0.6	ND	ND	ND	NA	
MW-11	6/5/2003	ND	ND	ND	ND	ND	NA	
MW-11	11/4/2003	ND	ND	ND	ND	ND	NA	
MW-11	1/20/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-11	5/25/2004	<0.5	1.6	0.7	4.1	<2.5	0.12	
MW-11	7/28/2004	<0.5	1.9	0.9	3.3	<2.5	<0.10	
MW-11	12/29/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-12	1/30/2002	**28**	1.8	54	104.6	**110**	NA	
MW-12	7/26/2002	**43**	1.7	59	115.1	**140**	NA	
MW-12	12/3/2002	**12**	ND	24	35	**120**	NA	
MW-12	6/5/2003	**30**	1.1	29	39	88	NA	
MW-12	1/20/2004	**17**	<2.5	34	43	**100**	NA	
MW-12	5/25/2004	**49**	2.4	46	63	62	0.88	

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
MW-12	12/30/2004	7.0	0.7	35	74	87	0.69	
MW-12	1/5/2006	6.4	<5.0	32	71	54	<1.0	570
MW-13	1/30/2002	<0.5	<0.5	<0.5	<1.5	<1.0	NA	
MW-13	7/26/2002	ND	ND	ND	ND	ND	NA	
MW-13	12/3/2002	ND	ND	ND	ND	ND	NA	
MW-13	6/5/2003	ND	ND	ND	ND	ND	NA	
MW-13	11/4/2003	ND	ND	ND	ND	ND	NA	
MW-13	1/20/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-13	7/28/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-13	12/30/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-13	9/19/2005	0.6	1.6	<0.5	<1.0	<2.5	0.20	
MW-13	1/3/2006	<0.5	<0.5	<0.5	<2.0	<0.5	<0.10	<1.0
MW-14	5/25/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-14	1/3/2006	**44**	3.9	50	<10	12	1.1	1.1
MW-14	6/28/2006	**110**	<0.5	77	3.6	<2.5	0.96	<2.5
MW-14	12/28/2006	**160**	7.9	94	7.6	<2.5	1.4	<1.0
MW-15	1/30/2002	<0.5	<0.5	<0.5	<1.5	<1.0	NA	
MW-15	7/26/2002	ND	ND	ND	ND	ND	NA	
MW-15	12/3/2002	ND	ND	ND	ND	ND	NA	
MW-15	6/5/2003	ND	ND	ND	ND	ND	NA	
MW-15	11/4/2003	ND	ND	ND	ND	ND	NA	
MW-15	1/20/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-15	5/25/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-15	7/28/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-15	12/29/2004	<0.5	0.6	<0.5	<1.0	<2.5	<0.10	
MW-15	9/19/2005	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-15	1/3/2006	<0.5	<0.5	<0.5	<2.0	<0.5	<0.10	<1.0
MW-17	1/5/2006	**620**	72	120	**900**	29	8.5	8.2
MW-17	6/27/2006	**1200**	15	77	97	<25	3.2	3.8
MW-17	12/28/2006	**150**	14	18	150	37	2.0	<1.0
MW-18	1/30/2002	1.0	<0.5	<0.5	<1.5	18	NA	
MW-18	7/25/2002	6.9	ND	1.1	0.7	36	NA	
MW-18	11/26/2002	5	ND	ND	ND	33	NA	
MW-18	6/5/2003	2.9	ND	ND	ND	16	NA	
MW-18	11/3/2003	ND	ND	ND	ND	15	NA	
MW-18	1/19/2004	0.7	<0.5	<0.5	<1.0	18	NA	
MW-18	5/25/2004	2.6	<0.5	<0.5	1.2	32	0.16	
MW-18	7/27/2004	<0.5	<0.5	<0.5	<1.0	<2.5	<0.10	
MW-18	12/28/2004	<0.5	<0.5	<0.5	<1.0	18	<0.10	
MW-18	9/19/2005	3.8	<0.5	<0.5	2.0	54	0.23	

TABLE 2
GROUNDWATER ANALYTICALS
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PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
MW-18	1/4/2006	0.7	1.3	0.6	2.7	47	0.10	<1.0
MW-18	6/27/2006	2.5	<0.5	<0.5	<2.0	83	0.11	19
MW-18	12/28/2006	<0.5	<0.5	<0.5	<2.0	54	<0.10	<1.0
MW-19	1/30/2002	0.6	0.9	0.8	<1.5	**530**	NA	
MW-19	7/25/2002	ND	ND	0.9	ND	**610**	NA	
MW-19	11/26/2002	ND	ND	ND	ND	**310**	NA	
MW-19	6/5/2003	3.2	ND	ND	ND	**420**	NA	
MW-19	11/3/2003	ND	ND	ND	ND	**520**	NA	
MW-19	1/19/2004	0.6	<0.5	<0.5	1.7	**310**	NA	
MW-19	5/25/2004	<0.5	<0.5	<0.5	<1.0	**180**	0.25	
MW-19	7/27/2004	<0.5	<0.5	<0.5	1.2	**210**	0.30	
MW-19	12/28/2004	<0.5	0.6	<0.5	3.0	**250**	0.40	
MW-19	9/19/2005	<0.5	<0.5	<0.5	2.0	**120**	0.21	
MW-19	1/4/2006	<0.5	<0.5	<0.5	<2.0	**260**	0.21	<1.0
MW-20	1/30/2002	1.6	3.7	6.3	1.2	**670**	NA	
MW-20	7/26/2002	ND	ND	ND	ND	**950**	NA	
MW-20	11/26/2002	1.6	ND	ND	2	**350**	NA	
MW-20	6/5/2003	7	ND	7.1	7.2	**630**	NA	
MW-20	11/4/2003	3.2	ND	ND	5.1	**480**	NA	
MW-20	1/19/2004	2.8	<0.5	1.4	3.3	**680**	NA	
MW-20	5/25/2004	1.9	<0.5	3.3	7.6	**400**	0.82	
MW-20	7/27/2004	2.1	<0.5	<0.5	2.3	**590**	0.91	
MW-20	12/29/2004	2.0	<0.5	<0.5	7.2	**300**	0.89	
MW-20	9/19/2005	<2.5	<2.5	<2.5	5.4	**160**	1.2	
MW-20	1/4/2006	<0.5	<0.5	<0.5	<2.0	**400**	0.50	<1.0
MW-20	6/28/2006	0.6	<0.5	<0.5	<2.0	**310**	0.23	3.2
MW-20	12/28/2006	<5.0	20	<5.0	<20	**170**	1.6	<1.0
MW-21	1/30/2002	<0.5	<0.5	<0.5	<1.5	44	NA	
MW-21	7/26/2002	ND	ND	ND	ND	34	NA	
MW-21	11/26/2002	1.4	ND	ND	ND	34	NA	
MW-21	6/5/2003	ND	ND	ND	ND	14	NA	
MW-21	11/4/2003	ND	ND	ND	ND	25	NA	
MW-21	1/19/2004	<0.5	<0.5	<0.5	<1.0	<2.5	NA	
MW-21	5/25/2004	<0.5	<0.5	<0.5	<1.0	18	0.11	
MW-21	7/28/2004	<0.5	<0.5	<0.5	<1.0	24	<0.10	
MW-21	12/29/2004	<0.5	<0.5	<0.5	<1.0	25	<0.10	
MW-21	9/19/2005	<0.5	<0.5	<0.5	<1.0	29	<0.10	
MW-21	1/4/2006	<0.5	<0.5	<0.5	<2.0	24	<0.10	<1.0
MW-21	6/28/2006	2.9	<0.5	<0.5	<2.0	17	<0.10	<2.5
MW-21	1/2/2007	<0.5	<0.5	<0.5	<2.0	29	<0.10	<1.0
MW-22	1/30/2002	<0.5	<0.5	<0.5	<1.5	12	NA	

TABLE 2
GROUNDWATER ANALYTICALS
(BTEX, MTBE, AND TOTAL PETROLEUM HYDROCARBONS)
PER EPA METHOD 8021/8015M

Well	*Date*	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethyl-benzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*GRO C6-C10* (mg/L)	*DRO C10-C22* (mg/L)
NM WQCC STANDARD		**10**	**750**	**750**	**620**	**100**	**NE**	**NE**
MW-22	7/26/2002	ND	ND	ND	ND	14	NA	
MW-22	11/26/2002	ND	ND	ND	ND	14	NA	
MW-22	6/5/2003	ND	ND	ND	ND	ND	NA	
MW-22	11/4/2003	ND	ND	ND	ND	11	NA	
MW-22	1/19/2004	<0.5	<0.5	<0.5	<1.0	13	NA	
MW-22	5/25/2004	<0.5	<0.5	<0.5	<1.0	13	0.11	
MW-22	7/28/2004	<0.5	<0.5	<0.5	<1.0	14	<0.10	
MW-22	12/29/2004	<0.5	<0.5	<0.5	<1.0	11	<0.10	
MW-22	9/19/2005	<0.5	<0.5	<0.5	<1.0	11	<0.10	
MW-22	1/4/2006	<0.5	<0.5	<0.5	<2.0	11	<0.10	<1.0
MW-22	6/28/2006	<0.5	<0.5	<0.5	<2.0	8.6	<0.10	<2.5
MW-22	1/2/2007	<0.5	<0.5	<0.5	<2.0	14	<0.10	<1.0
MW-24	1/5/2006	**1600**	88	82	**650**	**1400**	5.0	820
MW-29	1/5/2006	**3000**	**1700**	340	**2700**	**1500**	**23**	19
RW-24	1/5/2006	**920**	<10	140	580	**450**	<10	3.2
RW-25	1/5/2006	**2500**	**1200**	350	**2600**	**320**	16	71
RW-26	1/5/2006	**2100**	**130**	290	**1700**	**79**	40	250
RW-26	6/28/2006	**1300**	36	64	**1000**	**330**	6.2	9.6

Notes:

<	**Analyte not detected above listed method limit**
NA	**Not analyzed**
NE	**Not established**
µg/L	**Micrograms per liter (ppb)**
mg/L	**Milligrams per liter (ppm)**
A.S. INF	**Airstripper Influent**
A.S. EFF	**Airstripper Effluent**

TABLE 3
SUMMARY OF GROUNDWATER POLYNUCLEAR AROMATIC HYDROCARBONS PER EPA METHOD 8270 SIMS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a) anthracene (µg/L)	Benzo(a) pyrene (µg/L)	Benzo(b) fluroanthene (µg/L)	Benzo(g,h,i) perylene (µg/L)	Benzo(k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h) anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd) pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
NM WQCC Standard		*30*			*NE*	*NE*	*NE*	*NE*	*0.7*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
A.S. INF	1/20/2004	**280**	**290**	**540**	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
A.S. INF	12/30/2004	**40**	**32**	**30**	0.56	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	3.2	<0.40	2.3	<0.40
A.S. INF	1/5/2006	3.84	2.98	8.53	0.58	0.3	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.97	<0.20	0.88	0.38
A.S. INF	1/2/2007	9.25	1.95	3.73	0.66	0.33	<0.20	0.30	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2.46	<0.20	1.1	<0.20
A.S. EFF	1/20/2004	3.2	3	4.7	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	1.5	<0.40	2.1	<0.40
A.S. EFF	12/30/2004	3.6	2.2	2.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	1.8	<0.40	1.9	<0.40
A.S. EFF	1/5/2006	0.49	0.37	1.32	0.25	<0.20	<0.20	0.38	0.55	<0.20	0.61	<0.20	<0.20	<0.20	<0.20	0.93	0.56	0.8	<0.20
A.S. EFF	1/2/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-1	1/3/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-1	1/10/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-2	1/5/2006	**10,800**	**11,600**	**6780**	1240	379	136	197	**278**	<120	<120	<120	900	<120	206	3620	<120	4950	1050
MW-3	1/5/2006	**667**	**684**	**534**	94.7	28.2	10.5	13.6	**14.8**	<5.0	<5.0	<5.0	32.6	<5.0	14.2	221	<5.0	243	60.5
MW-3	1/2/2007	**30.6**	26.1	**32.3**	3.97	2.09	<0.20	0.65	<0.20	<0.20	<0.20	<0.20	2.73	<0.20	0.96	16	<0.20	5.48	3.85
MW-4	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-4	12/28/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-4	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-5	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-5	12/28/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-5	1/10/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-6	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-6	12/28/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-6	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-7	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-7	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40

TABLE 3
SUMMARY OF GROUNDWATER POLYNUCLEAR AROMATIC HYDROCARBONS PER EPA METHOD 8270 SIMS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a) anthracene (µg/L)	Benzo(a) pyrene (µg/L)	Benzo(b) fluroanthene (µg/L)	Benzo(g,h,i) perylene (µg/L)	Benzo(k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h) anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd) pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
NM WQCC Standard		*30*			*NE*	*NE*	*NE*	*NE*	*0.7*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
MW-7	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-8	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-9	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-9	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-9	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-10	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-10	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-10	1/3/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-10	1/10/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-11	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-11	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-12	1/20/2004	**140**	**170**	**77**	2.8	4.7	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.68	14	<0.40	38	1
MW-12	12/30/2004	**3,500**	**3,700**	**730**	41	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	15	<0.40	8	360	<0.40	650	<0.40
MW-12	1/5/2006	**1,400**	**1,300**	**683**	152	45	25.1	10.9	**25.2**	<10	<10	<10	32.4	<10	17.2	384	<10	461	63.1
MW-13	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-13	12/30/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-13	1/3/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-14	1/3/2006	<0.20	<0.20	0.32	0.21	<0.20	<0.20	0.35	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.25	<0.20	<0.20	<0.20
MW-14	1/10/2007	0.93	<0.20	0.51	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.38	<0.20	<0.20	<0.20
MW-15	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-15	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-15	1/3/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-17	1/5/2006	**48.4**	**53.5**	**31.1**	5	2.12	1.76	1.59	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	1.26	14.7	<1.0	15.6	3.54

TABLE 3
SUMMARY OF GROUNDWATER POLYNUCLEAR AROMATIC HYDROCARBONS PER EPA METHOD 8270 SIMS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a) anthracene (µg/L)	Benzo(a) pyrene (µg/L)	Benzo(b) fluoranthene (µg/L)	Benzo(g,h,i) perylene (µg/L)	Benzo(k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h) anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd) pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
NM WQCC Standard		30			NE	NE	NE	NE	0.7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
MW-17	1/10/2007	16.6	8.57	16.5	0.43	0.35	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3.45	<0.20	1.97	<0.20
MW-18	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-18	12/28/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-18	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.60	<0.20	<0.20	0.40	<0.20	<0.20	0.90
MW-18	1/10/2007	<0.20	<0.20	<0.20	<0.20	0.92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.59	<0.20	<0.20	0.45
MW-19	1/19/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-19	12/28/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-19	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-20	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-20	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-20	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.33	<0.20	<0.20	<0.20
MW-20	1/10/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.76	<0.20	<0.20	<0.20
MW-21	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-21	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-21	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-21	1/2/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-22	1/20/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-22	12/29/2004	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
MW-22	1/4/2006	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-22	1/2/2007	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-24	1/5/2006	**761**	**734**	**616**	105	25.9	14.6	<5.0	**12.4**	<5.0	<5.0	<5.0	19.2	<5.0	14.8	251	<5.0	318	13.8
MW-29	1/5/2006	**465**	**493**	**462**	34.6	12.6	7.06	7.7	**11.9**	<5.0	<5.0	<5.0	8.54	<5.0	<5.0	72.1	<5.0	80.8	13.8
RW-24	1/5/2006	**79.6**	**38.4**	**58.9**	4.93	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.09	<2.0	2.89	10.7	<2.0	12.5	4.06

TABLE 3
SUMMARY OF GROUNDWATER POLYNUCLEAR AROMATIC HYDROCARBONS PER EPA METHOD 8270 SIMS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Naphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a) anthracene (µg/L)	Benzo(a) pyrene (µg/L)	Benzo(b) fluroanthene (µg/L)	Benzo(g,h,i) perylene (µg/L)	Benzo(k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h) anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd) pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
NM WQCC Standard		30			NE	NE	NE	NE	0.7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
RW-25	1/5/2006	1,270	1,280	870	129	38.4	18.4	14.5	24.8	<10	<10	<10	34.8	<10	14.2	297	<10	345	46.7
RW-26	1/5/2006	1,520	1,350	855	192	48.1	14.7	14.9	22.9	<10	<10	<10	24.1	<10	16.9	441	<10	466	58.6

Notes:

<	Analyte not detected above listed method limit
NA	Not analyzed
NE	Not established
µg/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
A.S. INF	Airstripper Influent
A.S. EFF	Airstripper Effluent

TABLE 4
SUMMARY OF GROUNDWATER RCRA 8 METALS PER EPA METHOD 6010B 7470A
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
NM WQCC STANDARD		***0.10***	***1.0***	***0.01***	***0.05***	***0.05***	***0.05***	***0.05***	***0.002***
A.S. INF	1/20/2004	<0.0050	0.059	<0.0050	0.0050	<0.0050	<0.010	<0.0050	<0.00020
A.S. INF	12/30/2005	<0.0050	0.043	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
A.S. INF	1/5/2006	0.0038	0.049	<0.0010	0.0078	0.0012	<0.002	<0.001	<0.00020
A.S. INF	1/2/2007	0.0017	0.055	<0.0010	0.0136	<0.0010	<0.0020	0.0020	<0.00020
A.S. EFF	1/20/2004	<0.0050	0.059	<0.0050	0.0180	**0.23**	<0.010	<0.0050	<0.00020
A.S. EFF	12/30/2005	<0.0050	0.043	<0.0050	<0.0050	**0.18**	<0.010	<0.0050	<0.00020
A.S. EFF	1/5/2006	0.0066	0.047	0.0012	0.0037	**0.37**	0.015	<0.001	<0.00020
A.S. EFF	1/2/2007	0.0019	0.044	<0.0010	0.0153	0.0021	<0.0020	0.0020	<0.00020
MW-1	1/3/2006	0.003	0.137	<0.0010	0.0043	0.0037	0.011	<0.0010	<0.00020
MW-1	12/28/2006	<0.0010	0.042	<0.0010	0.00469	<0.0010	<0.0020	0.00198	<0.00020
MW-2	1/5/2006	0.002	**1.120**	<0.0010	0.0152	0.0294	0.009	<0.0010	<0.00020
MW-3	1/5/2006	0.114	**3.67**	<0.0010	0.0119	0.0402	0.008	<0.0010	<0.00020
MW-3	1/2/2007	0.098	**3.78**	<0.0010	0.016	0.0029	<0.0020	0.0042	<0.00020
MW-4	1/19/2004	0.015	0.170	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-4	12/28/2004	**0.12**	0.070	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-4	1/4/2006	0.045	0.224	<0.0010	0.0168	0.0091	0.016	<0.0010	<0.00020
MW-5	1/19/2004	<0.0050	0.038	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-5	12/28/2004	<0.0050	0.077	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-5	12/28/2006	0.0040	0.15	<0.0010	0.013	0.0039	<0.0020	0.0027	<0.00020
MW-6	1/19/2004	<0.0050	0.018	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-6	12/28/2004	<0.0050	0.015	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-6	1/4/2006	0.001	0.028	<0.0010	0.015	<0.0010	0.023	<0.0010	<0.00020
MW-7	1/19/2004	**0.14**	**2.0**	<0.0050	0.012	0.015	<0.010	<0.0050	<0.00020
MW-7	12/29/2004	0.01	0.083	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-7	1/4/2006	**0.314**	**3.160**	<0.0010	0.035	0.044	0.014	<0.0010	<0.00020
MW-8	1/4/2006	0.018	0.042	<0.0010	0.014	0.005	0.007	<0.0010	<0.00020
MW-9	1/19/2004	0.008	0.23	<0.0050	0.016	0.010	<0.010	<0.0050	<0.00020
MW-9	12/29/2004	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-9	1/4/2006	0.004	0.036	<0.0010	0.007	0.002	0.008	<0.0010	<0.00020

TABLE 4
SUMMARY OF GROUNDWATER RCRA 8 METALS PER EPA METHOD 6010B 7470A
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
NM WQCC STANDARD		***0.10***	***1.0***	***0.01***	***0.05***	***0.05***	***0.05***	***0.05***	***0.002***
MW-10	1/19/2004	<0.0050	0.038	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-10	12/29/2004	<0.0050	0.024	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-10	1/3/2006	0.006	0.144	<0.0010	0.008	0.002	0.025	<0.0010	<0.00020
MW-10	12/28/2006	0.00116	0.0219	<0.0010	0.00388	<0.0010	<0.0020	0.00084	<0.00020
MW-11	1/20/2004	**0.14**	**2.4**	<0.0050	**0.12**	**0.094**	<0.010	<0.0050	<0.00020
MW-11	12/29/2004	0.0090	0.098	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-12	1/20/2004	0.017	0.18	<0.0050	0.030	0.013	<0.010	<0.0050	<0.00020
MW-12	12/30/2004	0.012	0.18	<0.0050	0.029	0.010	<0.010	<0.0050	<0.00020
MW-12	1/5/2006	0.004	0.11	<0.0010	0.014	0.028	0.021	<0.0010	<0.00020
MW-13	1/20/2004	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-13	12/30/2004	<0.0050	0.021	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-13	1/3/2006	<0.0010	0.014	<0.0010	0.003	<0.0010	0.023	<0.0010	<0.00020
MW-14	1/3/2006	0.011	0.114	<0.0010	0.008	0.014	0.019	<0.0010	<0.00020
MW-14	12/28/2006	<0.0010	0.0148	<0.0010	0.00821	<0.00100	0.00403	0.00190	<0.00020
MW-15	1/20/2004	0.0050	0.320	<0.0050	0.020	0.010	<0.010	<0.0050	<0.00020
MW-15	12/29/2004	<0.0050	0.046	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-15	1/3/2006	0.005	0.127	<0.0010	0.008	0.008	0.025	<0.0010	<0.00020
MW-17	1/5/2006	0.006	0.107	<0.0010	0.013	0.008	0.008	<0.0010	<0.00020
MW-17	12/28/2006	0.0037	0.241	<0.0010	0.0058	0.0065	0.0030	0.0043	<0.00020
MW-18	1/19/2004	**1.0**	**1.2**	<0.0050	**0.11**	**0.13**	<0.010	<0.0050	0.00028
MW-18	12/28/2004	**0.28**	0.12	<0.0050	0.0060	<0.0050	<0.010	<0.0050	<0.00020
MW-18	1/4/2006	0.094	0.06	<0.0010	0.017	0.007	0.018	<0.0010	<0.00020
MW-18	12/28/2006	0.092	0.065	<0.0010	0.011	0.0020	<0.0020	0.0029	<0.00020
MW-19	1/19/2004	0.0070	0.058	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-19	12/28/2004	<0.0050	0.058	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-19	1/4/2006	0.019	0.164	<0.0010	0.023	0.012	0.017	<0.0010	<0.00020
MW-20	1/19/2004	0.08	0.51	<0.0050	0.066	**0.075**	<0.010	<0.0050	0.00026
MW-20	12/29/2004	0.01	0.055	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020
MW-20	1/4/2006	0.016	0.061	<0.0010	0.023	0.004	0.010	<0.0010	<0.00020
MW-20	12/28/2006	0.0017	0.030	<0.0010	0.0078	<0.0010	<0.0020	0.0023	<0.00020

TABLE 4
SUMMARY OF GROUNDWATER RCRA 8 METALS PER EPA METHOD 6010B 7470A
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.05*	*0.05*	*0.002*
MW-21	1/19/2004	0.038	0.091	<0.0050	0.013	0.010	<0.010	<0.0050	<0.00020
MW-21	12/29/2004	**0.13**	0.065	<0.0050	0.0060	0.0060	<0.010	<0.0050	<0.00020
MW-21	1/4/2006	0.046	0.053	<0.0010	0.013	0.0093	0.025	<0.0010	<0.00020
MW-21	1/2/2007	0.040	0.016	<0.0010	0.0040	<0.001	<0.0020	0.0021	<0.00020
MW-22	1/20/2004	0.016	0.036	<0.0050	0.054	**0.65**	<0.010	<0.0050	<0.00020
MW-22	12/29/2004	0.006	0.017	<0.0050	<0.0050	**0.20**	<0.010	<0.0050	<0.00020
MW-22	1/4/2006	0.015	0.186	0.004	0.022	**0.75**	<0.002	<0.001	<0.00020
MW-22	1/2/2007	0.0021	0.0109	<0.0010	0.0082	0.049	0.013	0.0030	<0.00020
MW-24	1/5/2006	0.009	0.101	<0.0010	0.011	0.04	0.018	<0.0010	<0.00020
MW-29	1/5/2006	0.010	0.294	<0.0010	0.011	**0.38**	0.015	<0.0010	<0.00020
RW-24	1/5/2006	NA	NA	NA	NA	NA	NA	NA	NA
RW-25	1/5/2006	0.006	0.027	<0.0010	0.009	**0.07**	0.014	<0.0010	<0.00020
RW-26	1/5/2006	0.005	0.535	<0.0010	0.006	0.03	0.014	<0.0010	<0.00020

Notes:

<	Analyte not detected above listed method limit
NA	Not analyzed
NE	Not established
µg/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
A.S. INF	Airstripper Influent
A.S. EFF	Airstripper Effluent

TABLE 5
SUMMARY OF GROUNDWATER DISSOLVED METALS, CHLORIDES, SULFATE, SPECIFIC CONDUCTANCE, HARDNESS, TDS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)	Specific Conductance (mS)	Hardness as $CaCO_3$ (mg/L)	Total Dissolved Solids (mg/L)
Sample Method		6010B	6010B	6010B	6010B	300.0	4500E	340.2	375.4	120.1	6010B	160.1
NM WQCC STANDARDS		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
A.S. INF	1/20/2004	400	60	7.3	970	0.50	**810**	0.53	**1,600**	5,700	1,100	**3,900**
A.S. INF	12/30/2004	350	55	8.6	910	0.74	**550**	1.2	**1,500**	1,500	1,100	**4,100**
A.S. INF	1/5/2006	479	72.4	11.2	1,120	<10	**634**	0.45	**1,920**	5,540	1,320	**4,180**
A.S. INF	1/2/2007	394	59.7	15.1	886	<1.00	**565**	0.47	**1,690**	NM	1,220	**4,420**
A.S. EFF	1/20/2004	400	60	7.2	990	<0.20	**1,500**	0.47	**1,600**	8,000	1,100	**5,800**
A.S. EFF	12/30/2004	340	54	8.8	870	0.79	**1,500**	0.87	**1,500**	7,900	1,100	**4,400**
A.S. EFF	1/5/2006	465	72.3	13.3	1,140	<10	**1,580**	0.45	**1,750**	9,240	3,020	**4,370**
A.S. EFF	1/2/2007	370	60.2	13.3	887	<1.00	**582**	0.35	**1,710**	NM	1,220	**4,270**
MW-1	1/3/2006	493	50.3	10	580	<10	36.0	0.951	**2,470**	4,020	1,880	**3,540**
MW-1	12/28/2006	460	39.2	12	454	<1.00	<100	0.937	**2,020**	NM	1,400	NM
MW-1	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3,360**
MW-2	1/5/2006	51.8	12.4	2.7	715	<5.0	59.7	0.45	<5.0	2,760	1,620	**1,720**
MW-3	1/5/2006	256	45	11.3	805	<10	**795**	0.55	25	4,130	1,440	**2,340**
MW-3	1/2/2007	192	33	9.5	577	<1.00	**589**	0.57	15	NM	740	**2,340**
MW-4	1/19/2004	270	32	6.7	800	<0.20	93	0.41	**1,300**	3,400	750	**2,500**
MW-4	12/30/2004	180	22	6.2	490	0.20	94	0.49	**970**	3,200	540	**2,300**
MW-4	1/4/2006	368	41	12.3	620	<10	143	0.40	**1,400**	3,830	2,120	**2,700**
MW-5	1/19/2004	65	17	7.7	1,300	<0.20	160	0.59	**1,900**	4,900	260	**3,400**
MW-5	12/30/2004	67	19	8.8	1,100	0.35	140	0.57	**1,700**	5,800	260	**3,800**

TABLE 5
SUMMARY OF GROUNDWATER DISSOLVED METALS, CHLORIDES, SULFATE, SPECIFIC CONDUCTANCE, HARDNESS, TDS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)	Specific Conductance (mS)	Hardness as $CaCO_3$ (mg/L)	Total Dissolved Solids (mg/L)
Sample Method		6010B	6010B	6010B	6010B	300.0	4500E	340.2	375.4	120.1	6010B	160.1
NM WQCC STANDARDS		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
MW-5	12/28/2006	91	26	8.8	1,130	<1.00	<175	0.72	**1,780**	NM	360	NM
MW-5	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4,030**
MW-6	1/19/2004	190	32	6.9	960	<0.20	71	0.50	**1,600**	4,200	540	**3,000**
MW-6	12/30/2004	190	32	9.6	860	0.31	100	0.54	**1,600**	4,800	610	**3,500**
MW-6	1/4/2006	211	37	12.2	1,030	<10	131	0.43	**1,830**	4,750	1,050	**3,110**
MW-7	1/19/2004	340	44	8.3	1,100	<0.20	**330**	0.48	**2,400**	5,500	990	**4,000**
MW-7	12/29/2004	330	44	10	900	0.36	**420**	0.49	**2,000**	5,600	1,100	**4,500**
MW-7	1/4/2006	459	69	16	1,140	<10	**488**	0.41	**2,450**	5,740	3,350	**4,200**
MW-8	1/4/2006	545	78	17	993	<10	230	0.386	**2,520**	5,690	1,960	**4,180**
MW-9	1/19/2004	410	61	6	1,500	0.31	86	0.73	**4,000**	7,000	1,200	**5,700**
MW-9	12/29/2004	420	64	6.6	1,400	0.64	100	0.76	**3,600**	7,000	1,300	**6,200**
MW-9	1/4/2006	456	78	13.1	1,840	<10	175	0.867	**3,800**	8,100	1,500	**5,770**
MW-10	1/19/2004	380	50	6	1,400	0.47	150	0.68	**3,500**	6,300	1,000	**5,200**
MW-10	12/29/2004	340	53	5.6	1,100	0.99	160	0.71	**2,800**	5,700	1,100	**5,000**
MW-10	1/3/2006	517	77.3	10.4	1530.0	<10	188	0.807	**3,820**	6,360	2,020	**5,320**
MW-10	12/28/2006	365	53.3	12.2	950	1.11	<175	0.846	**2,920**	NM	1,120	NM
MW-10	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4,270**
MW-11	1/20/2004	150	15	<5.0	480	0.41	90	0.54	**2,800**	5,200	1,200	**3,900**
MW-11	12/29/2004	250	21	8.3	950	0.57	92	0.62	**2,300**	4,900	720	**4,000**

TABLE 5
SUMMARY OF GROUNDWATER DISSOLVED METALS, CHLORIDES, SULFATE, SPECIFIC CONDUCTANCE, HARDNESS, TDS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)	Specific Conductance (mS)	Hardness as $CaCO_3$ (mg/L)	Total Dissolved Solids (mg/L)
Sample Method		6010B	6010B	6010B	6010B	300.0	4500E	340.2	375.4	120.1	6010B	160.1
NM WQCC STANDARDS		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
MW-12	1/20/2004	420	78	6.5	1,500	0.24	92	1.4	**3,700**	7,100	1,300	**5,600**
MW-12	12/30/2004	410	81	8.0	1,300	0.24	88	**1.9**	**3,500**	7,100	1,200	**6,100**
MW-12	1/5/2006	398	76.7	10.8	1,660	<10	78.4	1.3	**3,400**	6,940	1,770	**5,160**
MW-13	1/20/2004	390	57	7.0	1,000	<0.20	**710**	0.94	**3,800**	6,400	1,200	**5,000**
MW-13	12/30/2004	480	63	9.5	1,100	0.21	70	1.3	**3,100**	6,100	1,400	**5,400**
MW-13	1/3/2006	470	64.4	8.9	1,200	<10	64.7	1.1	39.3	6,190	1,490	**4,830**
MW-14	1/3/2006	485	53.2	11.1	909	<10	32.9	0.896	**3,150**	5,540	2,280	**4,400**
MW-14	12/28/2006	450	47.7	11.8	731	<1.00	<150	0.879	**2,740**	NM	1,260	NM
MW-14	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4,300**
MW-15	1/20/2004	130	15	<5.0	180	0.65	210	0.70	**2,600**	4,800	1,300	**3,800**
MW-15	12/29/2004	510	36	5.6	490	0.97	150	0.67	**1,900**	3,800	1,300	**3,400**
MW-15	1/3/2006	414.0	29.3	10.3	550	<10	146	0.70	**2,030**	3,820	1,370	**2,970**
MW-17	1/5/2006	530	70.2	14.3	1,030	<10	**991**	0.32	**1,290**	6,110	3,800	**3,900**
MW-17	12/28/2006	358	49.8	13.8	884	<1.00	**1,140**	0.43	**1,120**	NM	1,240	NM
MW-17	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3,750**
MW-18	1/19/2004	160	36	10	1,100	0.26	170	0.45	**1,400**	4,700	750	**4,000**
MW-18	12/28/2004	130	47	10	1,000	0.50	190	0.45	**1,300**	5,300	560	**3,700**
MW-18	1/4/2006	196	86	12	1,310	<10	**265**	0.435	**1,980**	5,610	960	**3,860**
MW-18	12/28/2006	217	89	11	1,080	<1.00	**389**	0.285	**1,940**	NM	360	NM

TABLE 5
SUMMARY OF GROUNDWATER DISSOLVED METALS, CHLORIDES, SULFATE, SPECIFIC CONDUCTANCE, HARDNESS, TDS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)	Specific Conductance (mS)	Hardness as $CaCO_3$ (mg/L)	Total Dissolved Solids (mg/L)
Sample Method		6010B	6010B	6010B	6010B	300.0	4500E	340.2	375.4	120.1	6010B	160.1
NM WQCC STANDARDS		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
MW-18	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4,310**
MW-19	1/19/2004	370	63	11	1,300	0.34	160	0.48	**2,700**	5,600	1,100	**4,500**
MW-19	12/30/2004	380	76	8.6	920	0.55	220	0.51	**2,300**	6,200	1,200	**4,800**
MW-19	1/4/2006	404	70	9.4	957	<10	178	0.333	**2,460**	5,470	2,710	**3,910**
MW-20	1/19/2004	480	68	6	1,000	0.32	160	0.56	**2,400**	5,200	1,400	**3,900**
MW-20	12/29/2004	410	65	5.9	790	0.44	200	0.56	**1,900**	4,800	1,300	**4,000**
MW-20	1/4/2006	574	84	14.6	1,050	<10	**277**	0.509	**2,550**	5,860	1,850	**4,240**
MW-20	12/28/2006	435	59	12.9	748	<1.00	<175	<0.20	**1,980**	NM	1,020	NM
MW-20	1/10/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4,270**
MW-21	1/19/2004	390	96	10	2,900	0.40	**300**	0.46	**6,000**	11,000	1,300	**8,000**
MW-21	12/29/2004	410	87	13	2,100	0.68	**280**	0.46	**4,600**	9,900	1,400	**8,500**
MW-21	1/4/2006	451	101	16	2,410	<10	**513**	0.445	**5,690**	10,500	3,900	**7,870**
MW-21	1/2/2007	440	82.5	14.8	1,700	<1.00	**487**	0.41	**4,260**	NM	1,400	**7,380**
MW-22	1/20/2004	400	73	11	2,600	1.2	**380**	0.35	**5,100**	10,000	1,200	**8,000**
MW-22	12/29/2004	350	68	14	2,200	1.8	**340**	0.36	**4,900**	10,000	1,200	**8,700**
MW-22	1/4/2006	465	98.3	16	2,960	<10	**338**	0.356	**6,430**	12,400	4,160	**9,710**
MW-22	1/2/2007	304	77.7	13.8	2,430	1.32	**265**	<0.200	**5,790**	NM	1,200	**9,560**
MW-24	1/5/2006	623.0	80.8	11.0	1010.0	<10	161	0.235	**2,650**	5,550	2,010	**4,640**
MW-29	1/5/2006	567.0	75.9	11.2	796.0	<10	168	0.253	**2,140**	4,710	2,240	**3,550**

TABLE 5
SUMMARY OF GROUNDWATER DISSOLVED METALS, CHLORIDES, SULFATE, SPECIFIC CONDUCTANCE, HARDNESS, TDS
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)	Specific Conductance (mS)	Hardness as $CaCO_3$ (mg/L)	Total Dissolved Solids (mg/L)
Sample Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*4500E*	*340.2*	*375.4*	*120.1*	*6010B*	*160.1*
NM WQCC STANDARDS		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
RW-24	1/5/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-25	1/5/2006	670.0	76.3	11.1	799.0	<10	206	0.214	**2,510**	5,350	2,210	**4,120**
RW-26	1/5/2006	397.0	43.5	9.6	952.0	<10	70	0.297	**1,340**	5,160	1,880	**3,750**

Notes:

<	Analyte not detected above listed method limit
NA	Not analyzed
NE	Not established
µg/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
A.S. INF	Airstripper Influent
A.S. EFF	Airstripper Effluent

TABLE 6
SUMMARY OF GROUNDWATER CARBON DIOXIDE AND FORMS OF ALKALINITY
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	pH	Bi-carbonate (mg/L as $CaCO_3$)	Free Carbon Dioxide (mg/L as $CaCO_3$)	Carbonate (mg/L as $CaCO_3$)	Hydroxide (mg/L as $CaCO_3$)	Total Carbon Dioxide (mg/L as $CaCO_3$)	Alkalinity as $CaCO_3$ (mg/L)
Sample Method		150.1	4500D	4500D	4500D	4500D	4500D	2320B
A.S. INF	1/20/2004	6.9	570	70	1.0	<1.0	570	570
A.S. INF	12/30/2004	7.0	840	120	1.0	<1.0	860	840
A.S. INF	1/5/2006	7.5	650	NA	1.7	NA	NA	652
A.S. INF	1/2/2007	7.1	617	NA	<0.50	NA	NA	617
A.S. EFF	1/20/2004	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A.S. EFF	12/30/2004	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A.S. EFF	1/5/2006	2.1	<1.0	NA	<1.0	NA	NA	<1.0
A.S. EFF	1/2/2007	8.0	449	NA	<0.50	NA	NA	449
MW-1	1/3/2006	7.3	187	NA	<1.0	NA	NA	187
MW-1	12/28/2006	7.2	312	NA	<0.50	NA	NA	312
MW-2	1/5/2006	7.3	1130	NA	2.8	NA	NA	1130
MW-3	1/5/2006	7.2	818	NA	1.3	NA	NA	819
MW-3	1/2/2007	7.0	985	NA	<0.50	NA	NA	985
MW-4	1/19/2004	7.2	540	47	1.0	<1.0	520	540
MW-4	12/28/2004	7.5	530	56	1.0	<1.0	520	530
MW-4	1/4/2006	7.2	460	NA	1.2	NA	NA	462
MW-5	1/19/2004	7.8	700	18	5.0	<1.0	630	700
MW-5	12/28/2004	8.0	720	22	4.0	<1.0	650	720
MW-5	12/28/2006	7.3	590	NA	5.2	NA	NA	595
MW-6	1/19/2004	7.5	760	30	4.0	<1.0	700	760
MW-6	12/28/2004	7.5	770	40	3.0	<1.0	720	770
MW-6	1/4/2006	7.7	486	NA	1.8	NA	NA	488
MW-7	1/19/2004	7.0	610	68	1	<1.0	610	610
MW-7	12/29/2004	7.0	590	110	1.0	<1.0	630	590
MW-7	1/4/2006	7.1	647	NA	<1.0	NA	NA	647
MW-8	1/4/2006	7.0	444	NA	<1.0	NA	NA	444
MW-9	1/19/2004	7.4	300	13	1	<1.0	280	300
MW-9	12/29/2004	7.3	310	26	1.0	<1.0	300	310

TABLE 6
SUMMARY OF GROUNDWATER CARBON DIOXIDE AND FORMS OF ALKALINITY
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	pH	Bi-carbonate (mg/L as $CaCO_3$)	Free Carbon Dioxide (mg/L as $CaCO_3$)	Carbonate (mg/L as $CaCO_3$)	Hydroxide (mg/L as $CaCO_3$)	Total Carbon Dioxide (mg/L as $CaCO_3$)	Alkalinity as $CaCO_3$ (mg/L)
Sample Method		150.1	4500D	4500D	4500D	4500D	4500D	2320B
MW-9	1/4/2006	7.8	276	NA	1.1	NA	NA	277
MW-10	1/19/2004	7.4	250	14	1.0	<1.0	230	250
MW-10	12/29/2004	7.4	240	20	1.0	<1.0	230	240
MW-10	1/3/2006	7.4	174	NA	<1.0	NA	NA	174
MW-10	12/28/2006	7.4	239	NA	<0.500	NA	NA	240
MW-11	1/20/2004	7.6	560	23	3	<1.0	520	560
MW-11	12/29/2004	7.5	240	20	1.0	<1.0	230	240
MW-12	1/20/2004	7.2	660	26	3	<1.0	610	660
MW-12	12/30/2004	7.0	570	57	1.0	<1.0	560	570
MW-12	1/5/2006	7.5	816	NA	1.8	NA	NA	818
MW-13	1/20/2004	7.2	250	9	1	<1.0	230	250
MW-13	12/30/2004	6.0	300	25	1.0	<1.0	290	300
MW-13	1/3/2006	7.3	212	NA	<1.0	NA	NA	212
MW-14	1/3/2006	7.3	297	NA	<1.0	NA	NA	298
MW-14	12/28/2006	7.0	290	NA	<0.500	NA	NA	290
MW-15	1/20/2004	7.4	190	12	1	<1.0	180	190
MW-15	12/29/2004	7.3	170	18	<1.0	<1.0	170	170
MW-15	1/3/2006	7.6	131	NA	<1.0	NA	NA	131
MW-17	1/5/2006	7.0	478	NA	<1.0	NA	NA	478
MW-17	12/28/2006	6.8	599	NA	1.1	NA	NA	600
MW-18	1/19/2004	7.5	1,100	46	5.0	<1.0	1,000	1100
MW-18	12/28/2004	7.8	990	34	6.0	<1.0	910	1000
MW-18	1/4/2006	7.6	<1.0	NA	<1.0	NA	NA	<1.0
MW-18	12/28/2006	7.3	861	NA	7.3	NA	NA	868
MW-19	1/19/2004	7.1	830	76	2	<1.0	810	830
MW-19	12/28/2004	7.3	790	120	1.0	<1.0	820	790
MW-19	1/4/2006	7.4	<1.0	NA	<1.0	NA	NA	<1.0
MW-20	1/19/2004	7.2	900	94	2	<1.0	890	900

TABLE 6
SUMMARY OF GROUNDWATER CARBON DIOXIDE AND FORMS OF ALKALINITY
Thriftway Refinery, Bloomfield, New Mexico

Sample ID	Sample Date	pH	Bi-carbonate (mg/L as $CaCO_3$)	Free Carbon Dioxide (mg/L as $CaCO_3$)	Carbonate (mg/L as $CaCO_3$)	Hydroxide (mg/L as $CaCO_3$)	Total Carbon Dioxide (mg/L as $CaCO_3$)	Alkalinity as $CaCO_3$ (mg/L)
Sample Method		150.1	4500D	4500D	4500D	4500D	4500D	2320B
MW-20	12/29/2004	6.8	870	130	1	<1.0	900	870
MW-20	1/4/2006	7.0	679	NA	1.1	NA	NA	680
MW-20	12/28/2006	7.0	804	NA	3.7	NA	NA	808
MW-21	1/20/2004	7.0	630	60	1	<1.0	610	630
MW-21	12/29/2004	7.1	610	84	1.0	<1.0	620	610
MW-21	1/4/2006	7.1	420	NA	1.0	NA	NA	421
MW-21	1/2/2007	6.7	528	NA	2.0	NA	NA	530
MW-22	1/20/2004	6.9	440	67	1	<1.0	450	440
MW-22	12/29/2004	7.0	410	78	<1.0	<1.0	440	410
MW-22	1/4/2006	7.1	359	NA	<1.0	NA	NA	359
MW-22	1/2/2007	7.0	252	NA	<0.50	NA	NA	253
MW-24	1/5/2006	7.4	1060	NA	1.05	NA	NA	1060
MW-29	1/5/2006	7.1	NA	NA	NA	NA	NA	NA
RW-24	1/5/2006	NA	NA	NA	NA	NA	NA	NA
RW-25	1/5/2006	7.0	681	NA	1	NA	NA	682
RW-26	1/5/2006	7.2	715	NA	<1.0	NA	NA	716

Notes:

<	Analyte not detected above listed method limit
NA	Not analyzed
NE	Not established
µg/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
A.S. INF	Airstripper Influent
A.S. EFF	Airstripper Effluent

FIGURES

DRAWN BY	CHECKED BY		REVISIONS
NCW	EM	03-30-07	
02-23-07	RK	03-30-07	BY: Nathan
			DATE: 03-30-07

MW-21
MW-22
MW-5
MW-4
MW-6
MW-7
MW-8
MW-9
MW-10
KUTZ WASH
MW-18
MW-3
MW-20
MW-19
MW-17
EVAPORATION PONDS
SHOP
MW-2
RW-26
FIRE WATER POND
MW-14
FORMER LAB AND OFFICE
MW-25
MW-24
STORAGE TANKS
RW-24
MW-1
MW-29
RW-25
MW-28
MW-12
T-17-1
MW-15
C.R. 5500 (WEST HAMMOND)
MW-13
FORMER DISPATCH OFFICE
GATE
BM-01
SPIKE ON P.P.
ELEV: 5461.13

LEGEND

GROUNDWATER MONITORING WELL

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN;
2. SMALL STORAGE TANKS NOT SHOWN

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

N

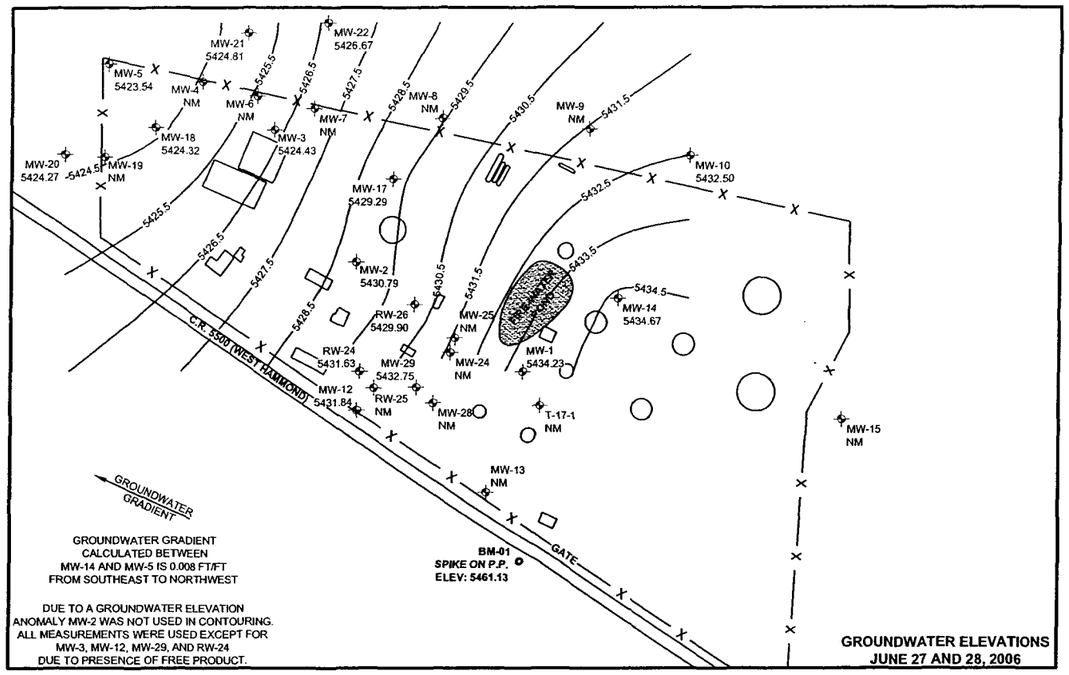
Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 1 GENERAL SITE PLAN.DWG

FIGURE 1
GENERAL SITE PLAN

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

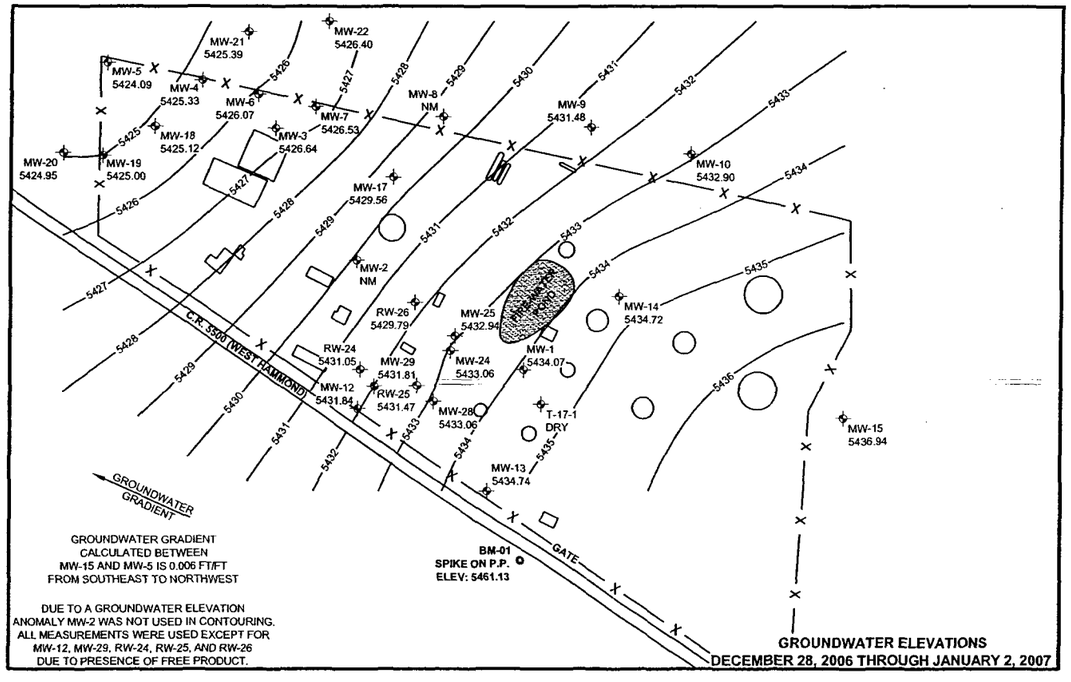
DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-26-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07



GROUNDWATER GRADIENT CALCULATED BETWEEN MW-14 AND MW-5 IS 0.008 FT/FT FROM SOUTHEAST TO NORTHWEST

DUE TO A GROUNDWATER ELEVATION ANOMALY MW-2 WAS NOT USED IN CONTOURING. ALL MEASUREMENTS WERE USED EXCEPT FOR MW-3, MW-12, MW-29, AND RW-24 DUE TO PRESENCE OF FREE PRODUCT.

GROUNDWATER ELEVATIONS JUNE 27 AND 28, 2006



GROUNDWATER GRADIENT CALCULATED BETWEEN MW-15 AND MW-5 IS 0.006 FT/FT FROM SOUTHEAST TO NORTHWEST

DUE TO A GROUNDWATER ELEVATION ANOMALY MW-2 WAS NOT USED IN CONTOURING. ALL MEASUREMENTS WERE USED EXCEPT FOR MW-12, MW-29, RW-24, RW-25, AND RW-26 DUE TO PRESENCE OF FREE PRODUCT.

GROUNDWATER ELEVATIONS DECEMBER 28, 2006 THROUGH JANUARY 2, 2007

LEGEND

- GROUNDWATER MONITORING WELL
- 5435 — GROUNDWATER CONTOUR IN FEET (AMSL)
- 5434.07 — GROUNDWATER ELEVATION IN FEET (AMSL)
- NM — NOT MEASURED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL GROUNDWATER MEASUREMENTS WERE COLLECTED ON JUNE 27 AND 28, 2006, AND DECEMBER 28, 2006 THROUGH JANUARY 2, 2007.

SCALE
400 200 0 400
100
(1 INCH = 400 FEET)

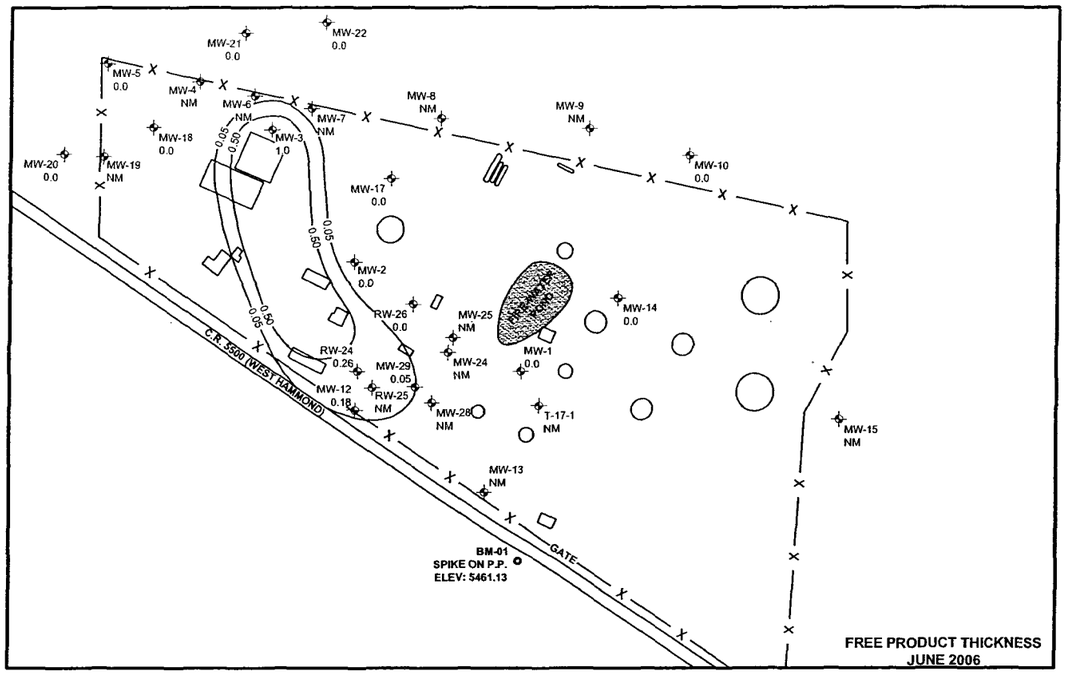
FIGURE 2
GROUNDWATER ELEVATION CONTOURS JUNE AND DECEMBER 2006

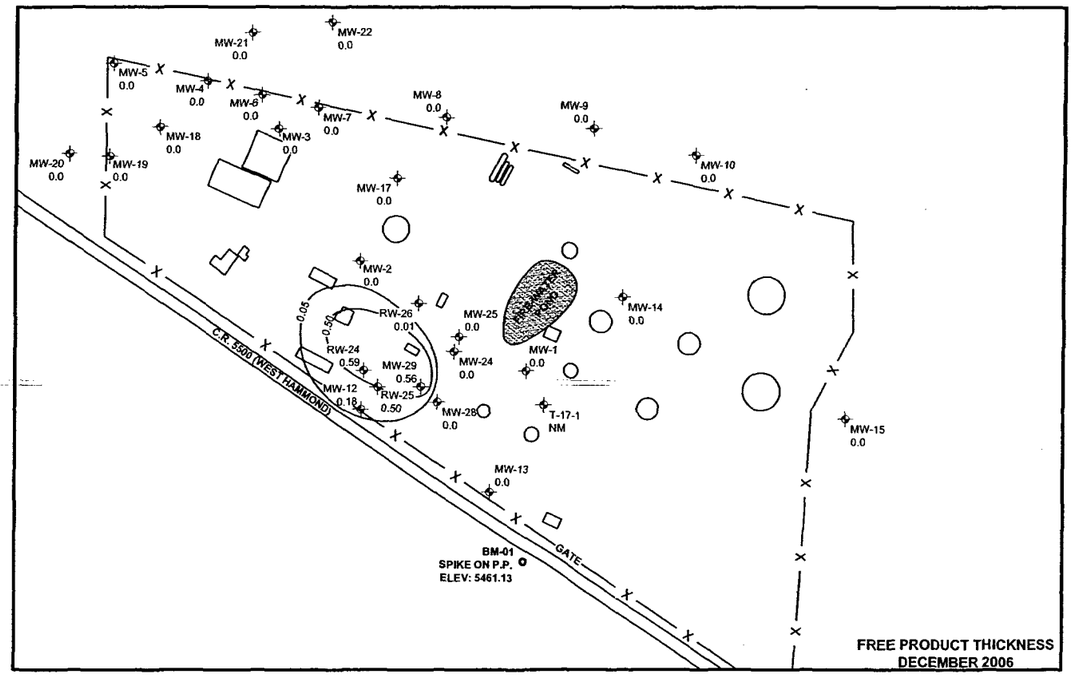
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 2 GROUNDWATER ELEVATIONS.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-26-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07





LEGEND

- GROUNDWATER MONITORING WELL
- 0.50 — FREE PRODUCT THICKNESS CONTOUR IN FEET
- 0.59 — FREE PRODUCT THICKNESS IN FEET
- NM — NOT MEASURED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL NAPL MEASUREMENTS WERE COLLECTED ON JUNE 27 AND 28, 2006, AND DECEMBER 28, 2006 THRU JANUARY 2, 2007.

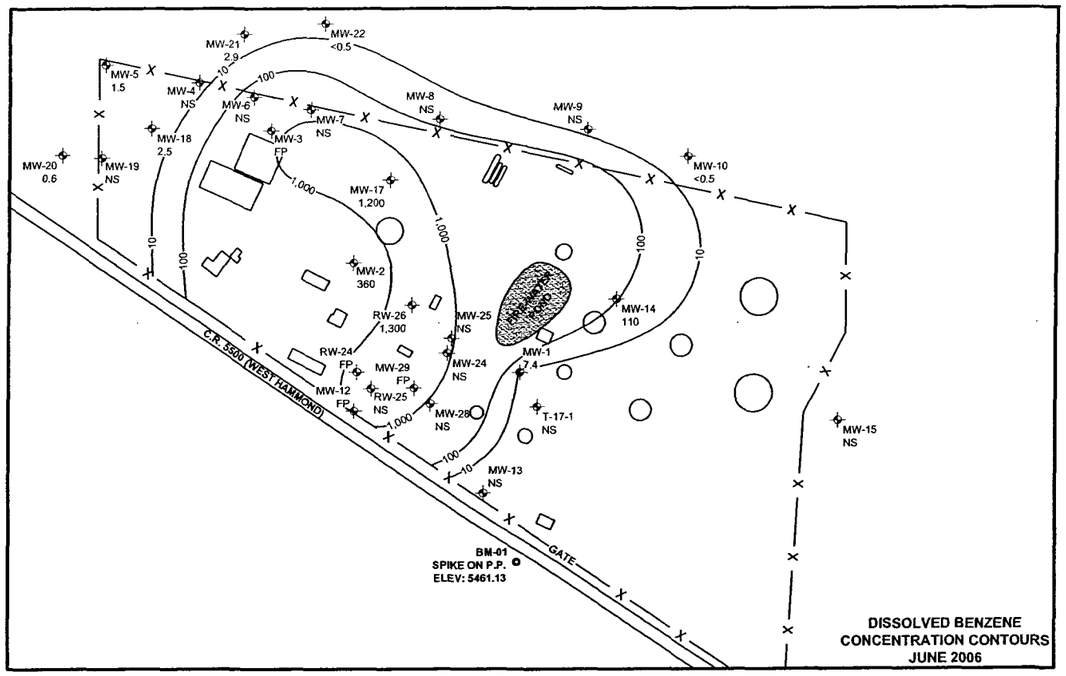
SCALE
400 200 0 400
100
(1 INCH = 400 FEET)

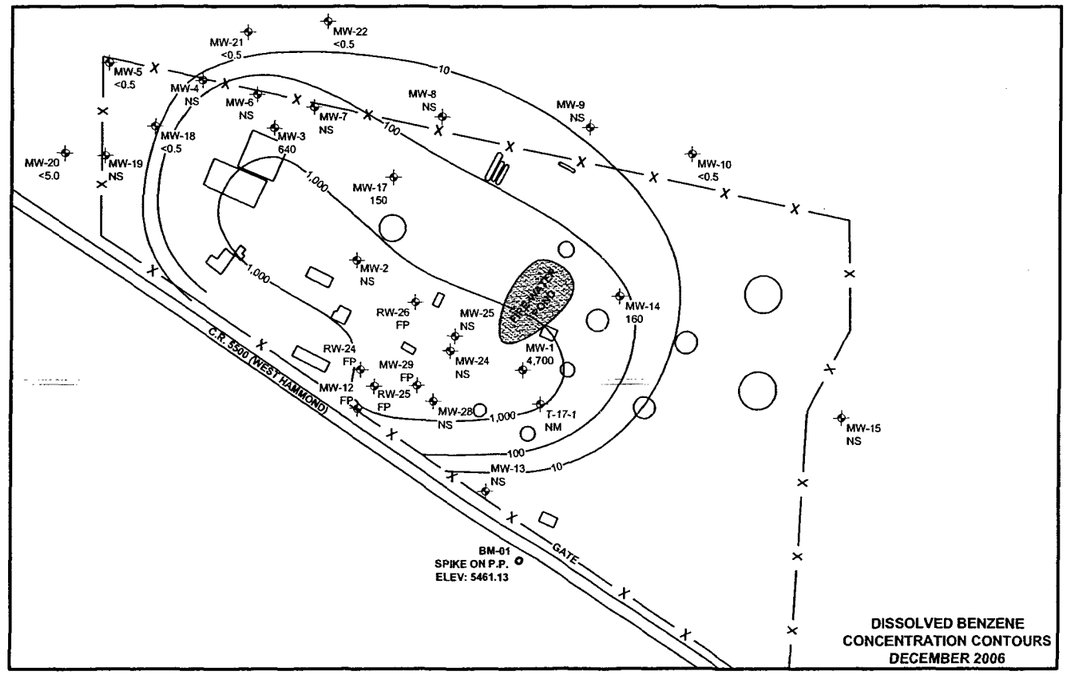
FIGURE 3
FREE PRODUCT THICKNESS CONTOURS 2006
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 3 NAPL DISTRIBUTION.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-26-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07





LEGEND

⊕	GROUNDWATER MONITORING WELL
—10—	BENZENE CONCENTRATION CONTOUR IN µg/L
150	BENZENE CONCENTRATION IN µg/L
<0.5	BENZENE CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 8021 (BTEX AND MTBE) FOR MW-1, MW-2, MW-5, MW-10, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, AND RW-26.

N

SCALE

400 200 0 400

100
(1 INCH = 400 FEET)

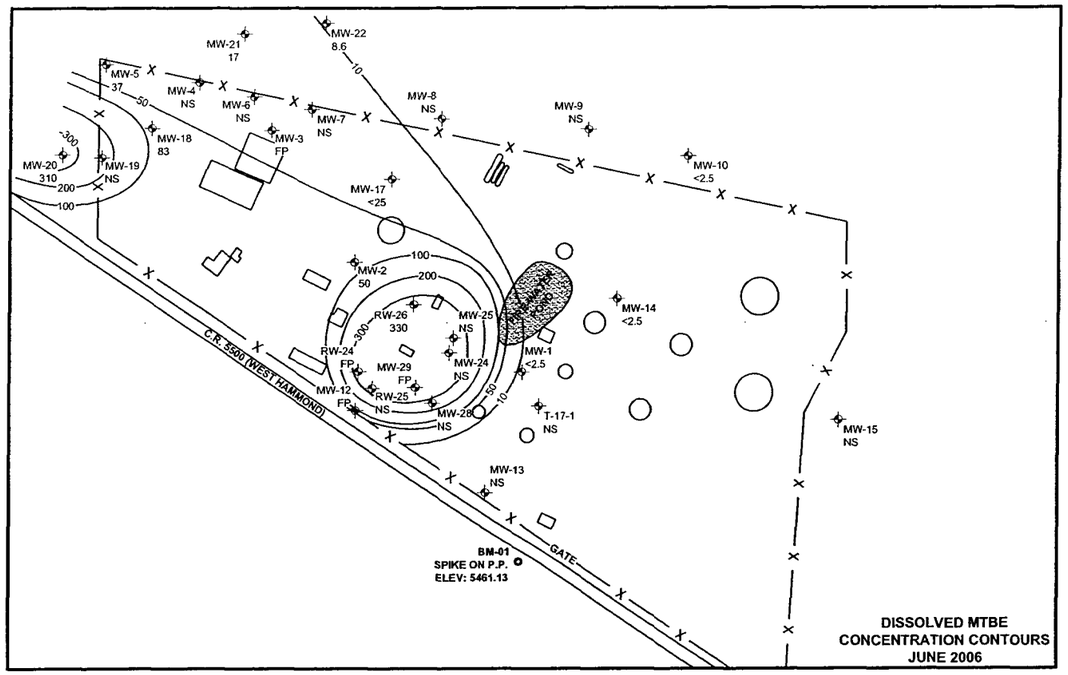
FIGURE 4
DISSOLVED BENZENE CONCENTRATION CONTOURS 2006

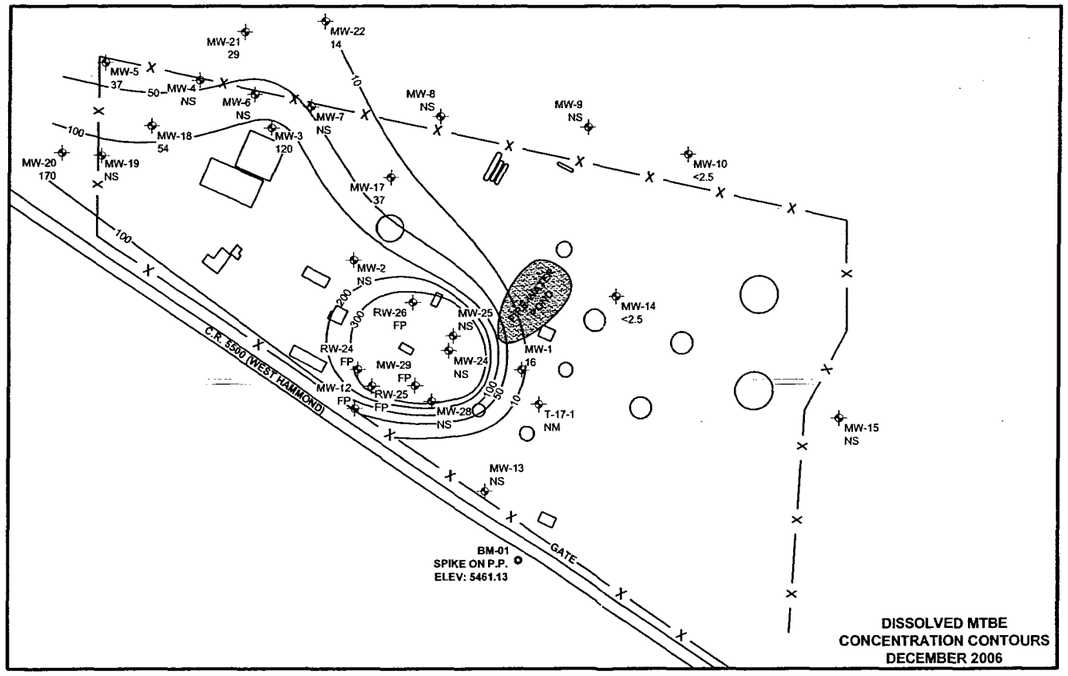
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 4 DISSOLVED BENZENE.DWG

DRAWN BY	NCW	CHECKED BY	EM	REVISIONS
	02-26-07	APPROVED BY	RK	03-30-07 BY: Nathan DATE: 03-30-07





LEGEND

⊕	GROUNDWATER MONITORING WELL
—100—	MTBE CONCENTRATION CONTOUR IN µg/L
120	MTBE CONCENTRATION IN µg/L
<2.5	MTBE CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 8021 (BTEX AND MTBE) FOR MW-1, MW-2, MW-5, MW-10, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, AND RW-26.

N

SCALE

400 200 0 400

100
(1 INCH = 400 FEET)

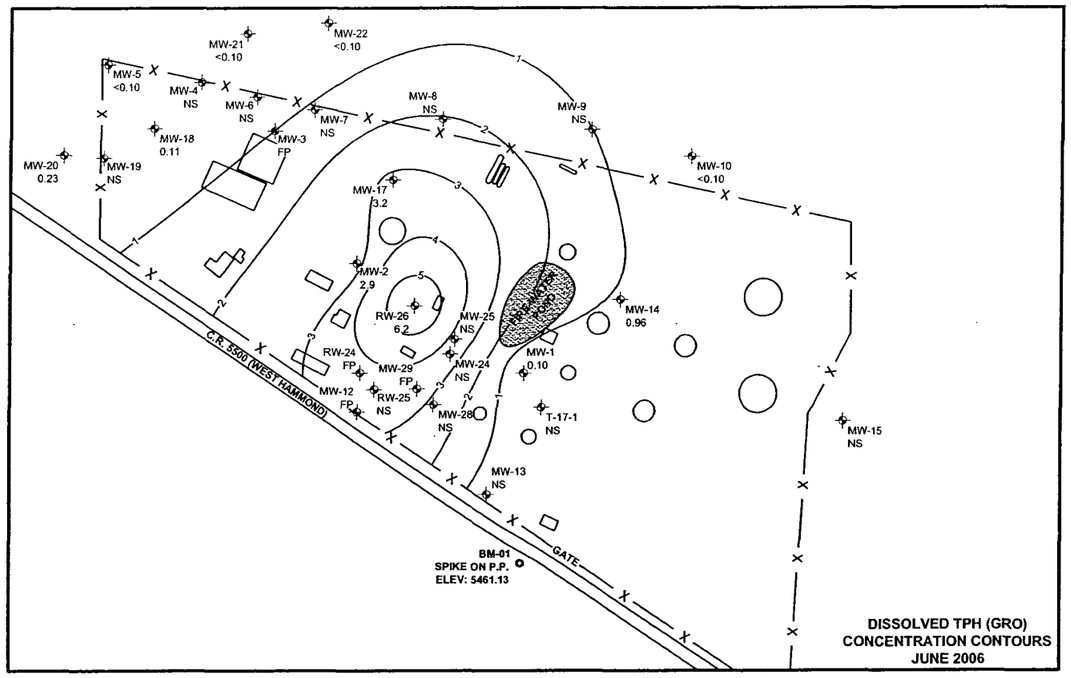
FIGURE 5
DISSOLVED MTBE CONCENTRATION CONTOURS 2006

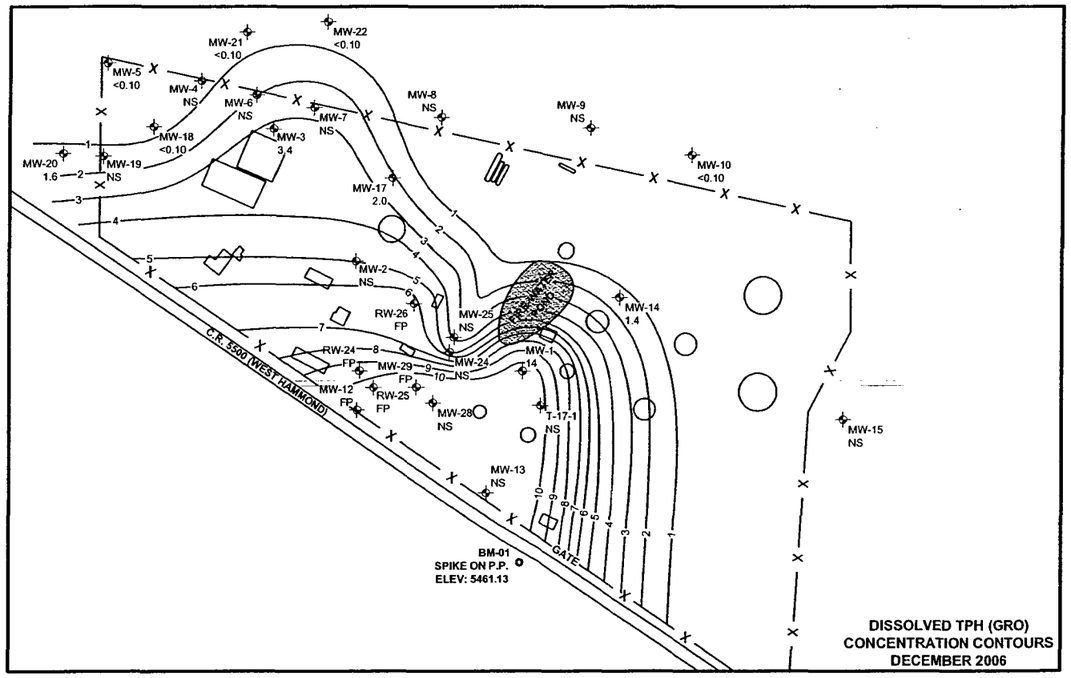
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 5 DISSOLVED MTBE.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-27-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07





LEGEND

⊕	GROUNDWATER MONITORING WELL
—5—	TPH (GRO) CONCENTRATION CONTOUR IN µg/L
6.2	TPH (GRO) CONCENTRATION IN µg/L
<0.10	TPH (GRO) CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 8015 (GRO AND DRO) FOR MW-1, MW-2, MW-5, MW-10, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, AND RW-26.

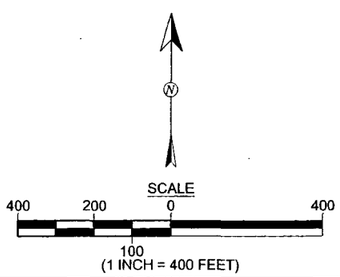
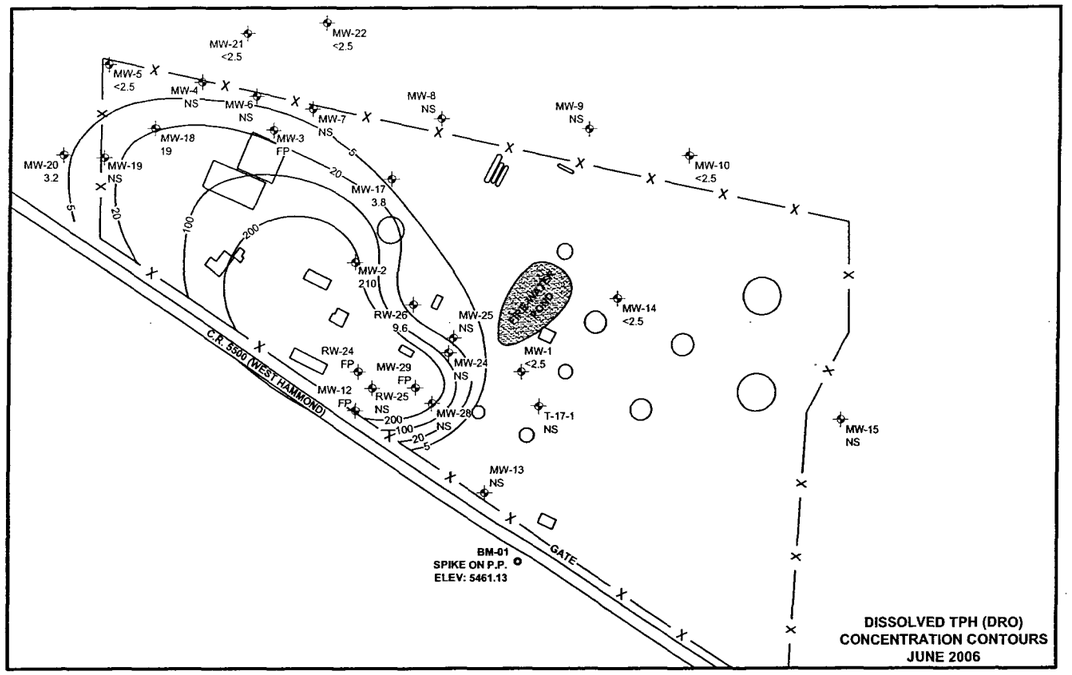


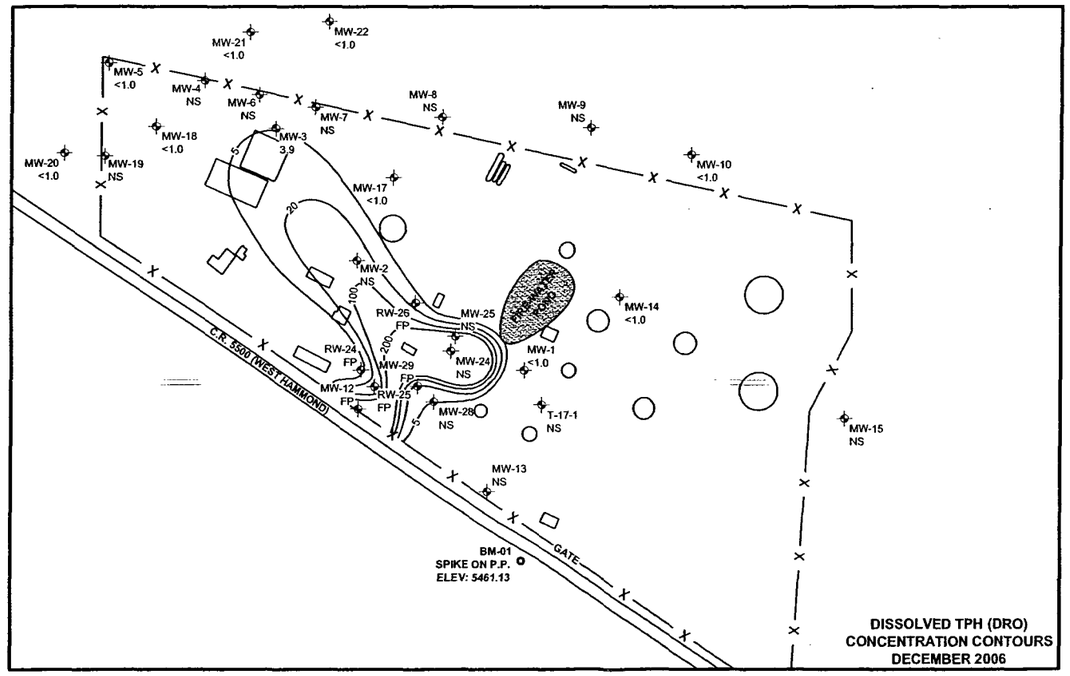
FIGURE 6
DISSOLVED TPH (GRO) CONCENTRATION CONTOURS 2006
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 6 TPH (GRO) IN GROUNDWATER.DWG

DRAWN BY	NCW	CHECKED BY	EM	REVISIONS
	02-27-07	APPROVED BY	RK	03-30-07 BY: Nathan DATE: 03-30-07





LEGEND

⊕	DROUNDWATER MONITORING WELL
—20—	TPH (DRO) CONCENTRATION CONTOUR IN µg/L
3.9	TPH (DRO) CONCENTRATION IN µg/L
<2.5	TPH (DRO) CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 8015 (GRO AND DRO) FOR MW-1, MW-2, MW-5, MW-10, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, AND RW-26.

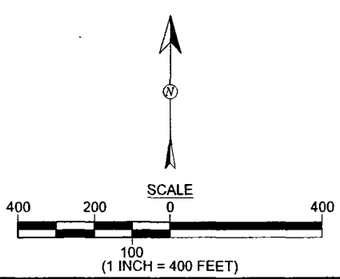


FIGURE 7
DISSOLVED TPH (DRO) CONCENTRATION CONTOURS 2006

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 7 TPH (DRO) IN GROUNDWATER.DWG

DRAWN BY	CHECKED BY	REVISIONS
NCW 02-27-07	APPROVED BY	BY: Nathan DATE: 03-30-07
	EM 03-30-07	
	RK 03-30-07	

MW-21 <0.20
MW-22 <0.20
MW-5 <0.20
MW-4 NS
MW-6 NS
MW-7 NS
MW-8 NS
MW-9 NS
MW-18 <0.20
MW-3 89
MW-20 <0.20
MW-19 NS
MW-10 <0.20
MW-17 41.7
MW-2 NS
RW-26 FP
MW-25 NS
MW-14 1.44
FIRE WATER POND
RW-24 FP
MW-24 NS
MW-1 <0.20
MW-29 FP
RW-25 FP
MW-12 FP
MW-28 NS
T-17-1 NS
MW-15 NS
MW-13 NS
C.R. 5500 (WEST HAMMOND)
GATE
BM-01
SPIKE ON P.P.
ELEV: 5461.13

LEGEND

⊕	GROUNDWATER MONITORING WELL
—30—	NAPHTHALENE CONCENTRATION CONTOUR IN µg/L
41.7	NAPHTHALENE CONCENTRATION IN µg/L
<2.5	NAPHTHALENE CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 8270 SIMS.

N

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

FIGURE 8
DISSOLVED TOTAL NAPHTHALENE CONCENTRATION CONTOURS
DECEMBER 2006
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 8 NAPHTHALENE IN GROUNDWATER.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-27-07	APPROVED BY	RK	03-30-07	BY: Ross DATE: 03-30-07

MW-21
487

MW-22
265

MW-5
<175

MW-4
NS

MW-6
NS

MW-7
NS

MW-8
NS

MW-9
NS

MW-18
389

MW-3
589

MW-20
<175

MW-19
NS

MW-10
<175

MW-17
1,140

50

100

200

400

600

800

1,000

1,000

800

600

400

200

100

50

MW-2
NS

FIRE WATER POND

MW-14
<150

RW-26
FP

MW-25
NS

RW-24
FP

MW-24
NS

MW-1
<100

MW-29
FP

RW-25
FP

MW-12
FP

MW-28
NS

T-17-1
NS

MW-15
NS

MW-13
NS

C.R. 5500 (WEST HAMMOND)

GATE

BM-01
SPIKE ON P.P.
ELEV: 5461.13

LEGEND

⊕	GROUNDWATER MONITORING WELL
—100—	CHLORIDE CONCENTRATION CONTOUR IN µg/L
589	CHLORIDE CONCENTRATION IN µg/L
<2.5	CHLORIDE CONCENTRATION BELOW DETECTION LIMIT
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED PER EPA METHOD 4500E.

N

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

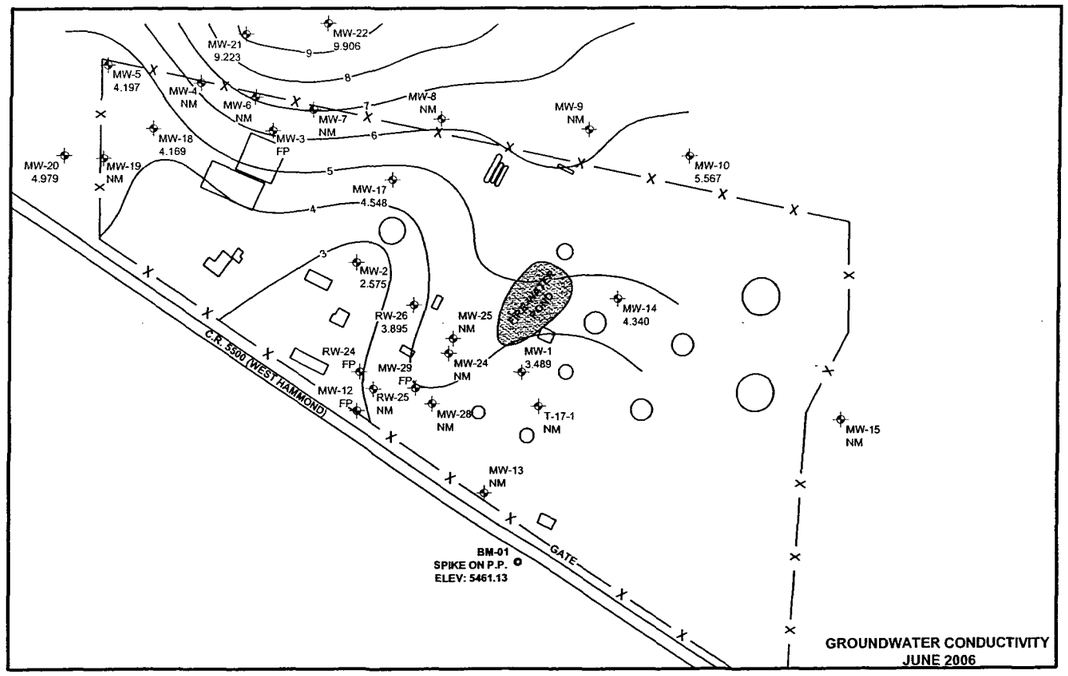
FIGURE 9
DISSOLVED CHLORIDE CONCENTRATION CONTOURS
DECEMBER 2006

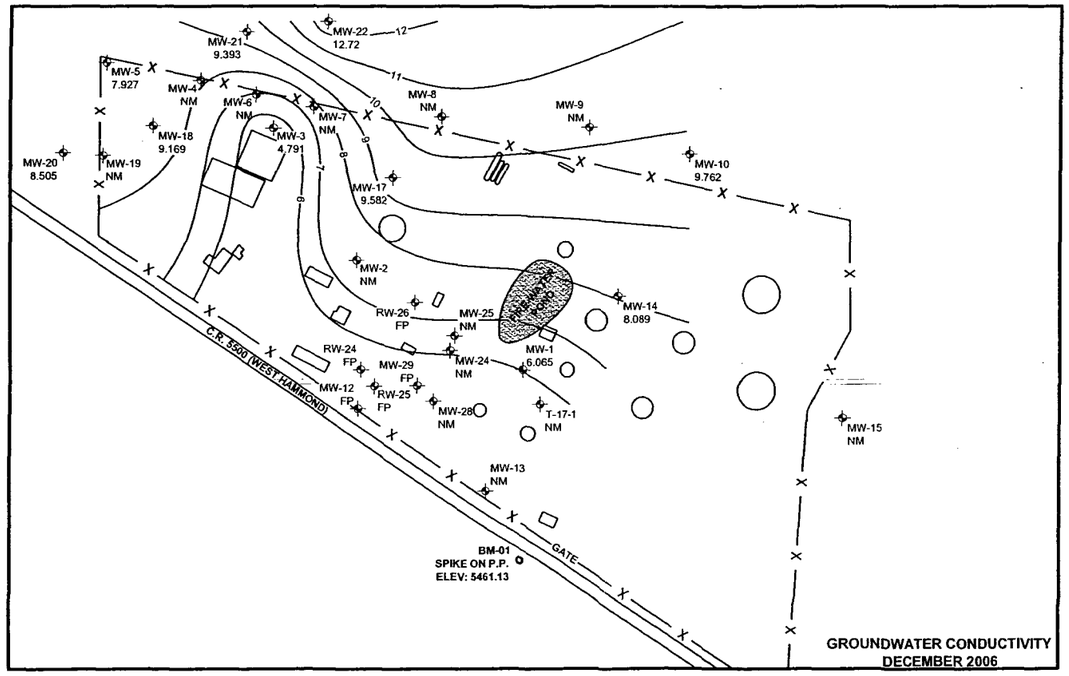
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 9 CHORIDE IN GROUNDWATER.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-27-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07





LEGEND

⊕	GROUNDWATER MONITORING WELL
—5—	CONDUCTIVITY CONCENTRATION CONTOUR IN mS
6.065	CONDUCTIVITY CONCENTRATION IN mS
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NM	NOT MEASURED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES WERE FIELD MEASURED USING AN YSI WATER QUALITY METER.

N

SCALE

400 200 0 400

100
(1 INCH = 400 FEET)

FIGURE 10
GROUNDWATER CONDUCTIVITY 2006

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 10 GROUNDWATER CONDUCTIVITY.DWG

DRAWN BY	NCW	CHECKED BY	EM	03-30-07	REVISIONS
	02-27-07	APPROVED BY	RK	03-30-07	BY: Nathan DATE: 03-30-07

MW-22
9,560

MW-21
7,380

8,000

7,000

6,000

5,000

4,000

MW-5
4,030

MW-4
NS

MW-6
NS

MW-7
NS

MW-8
NS

MW-9
NS

MW-18
4,310

MW-3
2,340

MW-20
4,270

MW-19
NS

3,000

MW-10
4,270

MW-17
3,750

MW-2
NS

RW-26
FP

MW-25
NS

FIRE WATER POND

MW-14
4,300

MW-24
NS

MW-1
3,360

RW-24
FP

MW-29
FP

RW-25
FP

MW-12
FP

MW-28
NS

T-17-1
NS

MW-15
NS

C.R. 5500 (WEST HAMMOND)

MW-13
NS

GATE

BM-01
SPIKE ON P.P.
ELEV: 5461.13

LEGEND

⌖	GROUNDWATER MONITORING WELL
6,000	TOTAL DISSOLVED SOLIDS CONTOUR IN mg/L
3,750	TOTAL DISSOLVED SOLIDS CONCENTRATION IN mg/L
FP	FREE PRODUCT PRESENT (NO SAMPLE)
NS	NOT SAMPLED

NOTES

1. MISSING OR DESTROYED MONITORING WELLS NOT SHOWN
2. SMALL STORAGE TANKS NOT SHOWN
3. ALL SAMPLES ANALYZED FOR TOTAL DISSOLVED SOLIDS PER EPA METHOD 160.1.

N

SCALE

200 100 0 200

50
(1 INCH = 200 FEET)

FIGURE 11
TOTAL DISSOLVED SOLIDS CONCENTRATION CONTOURS
DECEMBER 2006

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

S:\ANIMAS 2000\2007 PROJECTS\THRIFTWAY\810 REFINERY, BLOOMFIELD, NM\DRAWINGS\FIGURE 11 TOTAL DISSOLVED SOLIDS IN GROUNDWATER.DWG

APPENDIX A

Water Sampling Record

Monitor Well No: ~~RW~~ ~~MW~~ 26

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1618
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	4"
Depth to Water (ft):	14.08'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1624	19.2	3.908	0.07	6.5	16	0.5	
1627	18.9	3.877	0.12	6.5	2.1	1.5	
1631	18.5	3.895	0.04	6.5	3.9	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) 8015
Geo / DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: RW-24

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1644
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	AC 15.65 ON 15.91	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS / NAPL

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021)

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer
Other Notes/Comments	NS-NAPL AC=15.65 ON = 15.91

Water Sampling Record

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Monitor Well No: MW-29

Project:	Groundwater Monitoring and Sampling	**Project No.:**	210
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1653
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	BO-15.10 15.15	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS / NAPL

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021)

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer
Other Notes/Comments	NS - NAPL BO=15.10 OW=15.15

Water Sampling Record

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Monitor Well No: MW-22

Project:	Groundwater Monitoring and Sampling	**Project No.:**	816
Site:	Thriftway Refinery	**Date:**	6-28-6
Location:	Bloomfield	**Time:**	1503
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	4.08	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1508	14.9	10.14	0.23	6.8	-17	0.5	
1512	19.0	9.986	0.19	6.7	-18.2	1.5	Low Yield / Sample

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO-DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record ~~NA~~

Monitor Well No: MW-21

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1443
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	3.81	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1448	21.0	8.820	0.30	6.8	-13.6	0.5	
1450	21.7	8.966	0.21	6.8	-14.1	1.5	
1454	19.8	9.223	0.32	6.8	-26.0	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO / DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW-20

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1418
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	6.18'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1425	20.1	5.097	0.52	6.7	-2.6	0.5	
1426	18.0	4.756	0.66	6.7	-20.5	1.5	
1430	17.8	4.979	0.34	6.7	-16.7	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO - DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW-18

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-27-06
Location:	Bloomfield	**Time:**	1417
Sampler:	M. Beauparlant	**Weather:**	Clear - Warm
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	80° +
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	4.63'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1425	20.3	4.310	0.49	6.7	63	0.5	
1428	18.1	4.120	0.57	6.8	39	1.5	
1431	17.0	4.169	0.35	6.9	14	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO / DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW-17

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-27-06
Location:	Bloomfield	**Time:**	1532
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	5.91	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1535	20.5	1.188	0.08	6.6	39	0.5	
1538	21.0	1.548	0.03	6.6	56	1.5	
1541	19.8					3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) 8260

8015 DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW #14

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	910
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1249
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	12.26'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1254	16.1	4.53C	0.59	5.9	49	0.5	
1257	17.2	4.151	0.50	6.3	17	1.5	
1301	17.2	4.340	0.54	6.6	8	5.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO - DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW-12

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1535
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	BC = 13.94 GW = 14.12	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS / NAPL

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021)

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW-10

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	~~6-28-06~~ 810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1346
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	5.28'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1351	22.6	5.240	0.89	7.0	5	0.5	
1354	20.0	5.175	0.73	7.0	-16	1.5	
1358	18.2	5.567	0.46	7.0	-19	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO / DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer
Other Notes/Comments	

Water Sampling Record

Monitor Well No: MW-5

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	81C
Site:	Thriftway Refinery	**Date:**	6-27-06
Location:	Bloomfield	**Time:**	1446
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	5.43'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1451	17.7	5.413	1.49	7.1	21	0.5	- Boots in well
1457	13.1	5.511	1.25	7.1	20	1.5	
1503	16.0	4.197	0.57	7.2	1.0	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) D20
8015 GRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer
Other Notes/Comments	

MW-5

#810
6-28-06

No Sample / NAPL

DTW - AC: 5.27
CW: 6.27

Water Sampling Record

Monitor Well No: MW-2

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1545
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	11.86	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1559	19.3	2.641	0.65	6.6	72.5	0.5	
1605	17.0	2.575	0.51	6.8	5.0	1.5	Low Yield / Sample

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO - DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: MW #1

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1312
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	14.85'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1516	17.8	3.267	0.13	6.6	-43	0.5	Braeing on
1520	17.3	3.291	0.56	6.7	-27.3	1.5	Casing Volume
1524	17.2	3.489	0.40	6.8	-24	3.0	

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) / 8015 GRO / DRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer
Other Notes/Comments	

Water Sampling Record

Monitor Well No: AIR STRIPPER EFFLUENT

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1158
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1158	22.3	6.064	0.91	2.8	92	—	Sampled ~~Pipe~~ From Air Stripper Transfer Line

Analytical Parameters Sampled For (include Method #): BTEX and MTBE (8021) /8015 GRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: AIRSTRIPPER INFLUENT

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	Thriftway Refinery	**Date:**	6-28-06
Location:	Bloomfield	**Time:**	1151
Sampler:	M. Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1151	22.1	5.311	0.82	5.4	93	—	IPW Pumped from US Collection Tank

Analytical Parameters Sampled For (include Method #): BTEX and MTBE ~~(8021)~~ 8015 / 8021 GRO

Disposal of Purged Water:	On-Site on Asphalt Pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring and Sampling
Site: 810 Refinery
Location: 626 Road 5500 Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.:
Date:
Time:
Form:

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-4		4.79		
MW-6		~~4.79~~ 4.63		
MW-7		8.75'		
MW-8		?		COULD NOT LOCATE. ?
MW-9		5.21'		
MW-13		17.38'		
MW-15		12.34'		
MW-19		3.69'		
MW-24		16.17		
MW-25		15.80		
MW-28		16.01		
RW-25	16.35	16.85		
T-17-1		DRY		TD = 15.0' ?
~~MW-3~~				
~~RW-26~~	14.17	14.18	00.01	
RW-24	15.66	16.25		
MW-29	15.16	15.72		
MW-12	13.99	14.12		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

Water Sampling Record

Animas Environmental Services

Monitor Well No: AIR STRIPPER EFFLUENT

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	N/A	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1138	11.7	9.157	1.28	7.01	256	N/A	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: Air Stripper Effluent

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	NA	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1205	12.78	2.20	5.81	8.5	207	NA	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-1**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	12-28-06
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1312
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	15.01'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1314	13.2	5.609	0.05	6.9	228	0.5	
1320	15.23	7.401	0.09	7.02	256	1.5	
1334	13.2	6.885	0.22	7.02	229	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level, YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-2**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	
Site:	810 Refinery	**Date:**	
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-3**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1320
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	~~no~~ 4.79'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1320	11.8	4.742	0.73	7.0	202	0.5	
1326	12.9	6.353	0.69	7.0	194	1.5	
1332	13.7	4.791	0.69	7.0	221	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-5**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	12-28-06
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	0912
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	40°F
Depth of Well (ft):	7.6'	**Well Diam. (in.):**	2
Depth to Water (ft):	4.88'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
0920	10.36	4.614	1.06	7.2	169	0.5	
0930	11.17	7.997	0.81	7.3	190	1.5	
0939	11.4	7.927	0.571	7.3	174	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-10**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	12-28-16
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1408
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	4.66	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1415	8.8	8.414	1.05	7.3	198	0.5	
1421	9.5	8.447	1.01	7.4	165	1.5	
1425	10.1	9.762	1.00	7.4	185	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-12**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1500
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS - Napl
							See DTW-Form

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-14**

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	12.28.06
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1143
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	12.21'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1147	14.8	8.704	0.51	7.1	237	0.5	
1150	13.7	8.831	0.26	7.1	179	1.5	
1200	13.4	8.827	0.02	7.0	170	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-17**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	12-28-06
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1038
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	5.64'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1111	11.6	9.718	0.34	6.9	296	0.5	
1115	12.6	9.524	0.47	6.8	266	1.5	
1121	11.7	9.582	0.65	6.8	155	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-18**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	10-28-06
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	~~0957~~ 0957
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	3.83	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1003	9.8	6.829	1.29	7.02	305	0.5	
1015	10.0	5.807	1.07	7.13	110	1.5	
1030	10.8	9.169	1.53	7.25	207	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-20**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	12-28-1110 BTC
Site:	810 Refinery	**Date:**	12-29-11
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1452
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):	5.50'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1502	8.7	8.454	0.46	7.0	~~114~~	0.5	
1508	8.6	8.344	0.46	7.0	95	1.5	
1513	8.9	8.505	0.51	7.0	242	3.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-21**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	~~1-2-07~~ 810
Site:	810 Refinery	**Date:**	1-2-07
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1019
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	3.25'	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1025	8.6	8.845	2.09	6.5	152	0.5	
1029	8.2	9.122	1.96	6.6	156	1.5	
1036	8.2	9.595	1.90	6.7	152	2.0	

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-22**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1:54
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):	3.55	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1102	7.3	12.46	3.85	7.0	12		
1107	8.0	12.74	2.17	7.0	41		
1114	7.9	12.72	3.02	7.0	180		

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-29**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1452
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	2"
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS-Napl
							See DTW Form

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **RW-24**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-3-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1444
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	4"
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS-Napl
							See DTW Form

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **RW-26**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project:	Groundwater Monitoring and Sampling	**Project No.:**	810
Site:	810 Refinery	**Date:**	1-2-7
Location:	626 Road 5500 Bloomfield, New Mexico	**Time:**	1433
Sampler:	Mike Beauparlant	**Weather:**	
Sampling Method:	Purge - Disposable Bailer	**Air Temperature:**	
Depth of Well (ft):		**Well Diam. (in.):**	
Depth to Water (ft):		**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
							NS-NAPL
							See DTW Form.

Analytical Parameters Sampled For (include Method #):

DRO Per EPA Method MOD.8015, BTEX/MTBE and GRO Per EPA Method 8021/8015

PAHs Per EPA Method 8270 SIMS

Total RCRA Metals (8), Hardness, Dissolved Ca, Mg, K, Na, and Alk Gr, Br, Cl, F, SO4, TDS

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Pinnacle Laboratories, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments NS- NAPL -See DTW Form

APPENDIX B

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **603103**
April 06, 2006

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name T-WAY REFINERY
Project Number 810

Attention: ROSS KENNEMER/MIKE BEAUPARLANT

On 03/28/06 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

2709-D Pan American Fwy, NE Albuquerque, NM 87107 505.344.3777 505.344.4413 FAX 877.PIN.1998 TOLL FREE
www.pinnaclelabs.org www.pinnaclelabsonline.com

PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 603103
PROJECT #	: 810	DATE RECEIVED	: 03/28/06
PROJECT NAME	: T-WAY REFINERY	REPORT DATE	: 04/06/06

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
603103 - 01	AIRSTRIPPER-INFLUENT	AQUEOUS	03/24/06
603103 - 02	AIRSTRIPPER-EFFLUENT	AQUEOUS	03/24/06

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : T-WAY REFINERY

PINNACLE I.D. : 603103
ANALYST : BP

SAMPLE I.D. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR	
01	AIRSTRIPPER-INFLUENT	AQUEOUS	03/24/06	NA	03/30/06	10	
02	AIRSTRIPPER-EFFLUENT	AQUEOUS	03/24/06	NA	03/31/06	2	D*

PARAMETER	DET. LIMIT	UNITS	AIRSTRIPPER-INFLUENT	AIRSTRIPPER-EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**3.2**	0.10 - **D1**
HYDROCARBON RANGE			**C6-C10**	C6-C10
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE
BENZENE	**0.5**	**UG/L**	**57**	< 1.0
TOLUENE	**0.5**	**UG/L**	**28**	< 1.0
ETHYLBENZENE	**0.5**	**UG/L**	**93**	< 1.0
TOTAL XYLENES	**2.0**	**UG/L**	**320**	< 4.0
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**120**	**10**
SURROGATE:				
BROMOFLUOROBENZENE (%)			98	95
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
D1 = GRO was reported from a 1X dilution run on 03-30-06.
D* = Dilution due to matrix effects.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 603103
BLANK I.D.	: 033006	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		95
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 603103
BLANK I.D.	: 033106	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/31/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		100
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 603103
BATCH ID	: 033006	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.2	101	19.5	98	4	(80 - 120)	20
TOLUENE	<0.5	20.0	19.1	96	18.5	93	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.1	101	19.5	98	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	59.6	99	57.8	96	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	21.0	105	19.2	96	9	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 603103
BATCH ID	: 033106	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/31/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.1	96	20.2	101	6	(80 - 120)	20
TOLUENE	<0.5	20.0	18.2	91	19.4	97	6	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.4	97	20.2	101	4	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	57.4	96	60.2	100	5	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	16.7	84	18.1	91	8	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 603103
BATCH ID	: 033006	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.996	100	0.957	96	4	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 603103
SAMPLE ID	: 603086-01	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.4	102	20.0	100	2	(80 - 120)	20
TOLUENE	<0.5	20.0	19.2	96	18.9	95	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	19.9	100	1	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	59.8	100	58.9	98	2	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	20.0	100	16.8	84	17	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 603103
SAMPLE ID	: 603086-01	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 03/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: T-WAY REFINERY	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.943	94	0.994	99	5	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
N/A

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

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

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Whitney Refinery

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE:_____ PAGE:_____ OF _____

PLI Accession #: 603103

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: MIKE BEAUPARLANT

COMPANY: BIOTECH-REMEDIATION

ADDRESS: 501 AIRPORT DR. SUITE 104
FARMINGTON, NM. 87401

PHONE: 505-327-4965

FAX:

BILL TO:

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
AIRSTRIPPER-INFLUENT	3-24-06	0900	H2O	01
AIRSTRIPPER-EFLUENT	3-24-06	0905	H2O	02

ANALYSIS REQUEST

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

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

PROJECT INFORMATION

PROJ. NO.: 810

PROJ. NAME: T-WAY REFINERY

P.O. NO.:

SHIPPED VIA: FED EX

SAMPLE RECEIPT

NO. CONTAINERS	24
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	Y (N)
BLUE ICE/ICE	Y (N)

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ | METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: M. Beauparlant Time: 1100

Printed Name: MIKE BEAUPARLANT Date: 3-24-06

Company: BIOTECH

See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: (LAB) 2.

Signature: Time:
Suzanne Jaramillo 1208

Printed Name: Date:
Suzanne Jaramillo 3/29/06

Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **604128**
May 02, 2006

ANIMAS ENVIRONMENTAL SERVICES
624 EAST COMMANCHE
FARMINGTON, NM 87401

Project Name AIRSTRIPPER
Project Number 810

Attention: ROSS KENNEMER/MIKE BEAUPARLANT

On 04/25/06 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	PINNACLE ID	: 604128
PROJECT #	: 810	DATE RECEIVED	: 04/25/06
PROJECT NAME	: AIRSTRIPPER	REPORT DATE	: 05/02/06

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
604128 - 01	INFLUENT	AQUEOUS	04/19/06
604128 - 02	EFFLUENT	AQUEOUS	04/19/06

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : ANIMAS ENVIRONMENTAL SERVICES
PROJECT # : 810
PROJECT NAME : AIRSTRIPPER

PINNACLE I.D. : 604128
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	INFLUENT	AQUEOUS	04/19/06	NA	04/26/06	10
02	EFFLUENT	AQUEOUS	04/19/06	NA	04/26/06	1

PARAMETER	DET. LIMIT	UNITS	INFLUENT	EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**2.7**	< 0.10
HYDROCARBON RANGE			**C6-C10**	C6-C10
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE
BENZENE	**0.5**	**UG/L**	**21**	< 0.5
TOLUENE	**1.0**	**UG/L**	**14**	< 1.0
ETHYLBENZENE	**0.5**	**UG/L**	**96**	< 0.5
TOTAL XYLENES	**2.0**	**UG/L**	**270**	< 2.0
METHYL-t-BUTYL ETHER	2.5	UG/L	< 25	< 2.5
SURROGATE:				
BROMOFLUOROBENZENE (%)			100	98
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 604128
BLANK I.D.	: 042606	DATE EXTRACTED	: NA
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/26/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<1.0
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		98
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 604128
BLANK I.D.	: 042706	DATE EXTRACTED	: NA
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/27/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<1.0
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		69
SURROGATE LIMITS (80 - 120)		**S1**

CHEMIST NOTES:
S1 = Surrogate does not meet PLI criteria, low.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 604128
BATCH ID	: 042606	DATE EXTRACTED	: N/A
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/26/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMIT
FUEL HYDROCARBONS	<0.10	1.00	0.913	91	0.982	98	7	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 604128
SAMPLE ID	: 604127-02	DATE EXTRACTED	: N/A
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/26/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.961	91	0.973	97	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 604128
BATCH ID	: 042606	DATE EXTRACTED	: NA
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/26/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.3	97	20.2	101	5	(80 - 120)	20
TOLUENE	<1.0	20.0	19.4	97	20.2	101	4	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.0	95	19.8	99	4	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	56.5	94	58.7	98	4	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.0	95	19.6	98	3	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 604128
BATCH ID	: 042706	DATE EXTRACTED	: NA
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/27/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.4	97	20.3	102	5	(80 - 120)	20
TOLUENE	<1.0	20.0	19.5	98	20.4	102	5	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.1	96	19.9	100	4	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	56.6	94	59.1	99	4	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.4	97	20.6	103	6	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 604128
SAMPLE ID	: 604127-02 RR	DATE EXTRACTED	: NA
CLIENT	: ANIMAS ENVIRONMENTAL SERVICES	DATE ANALYZED	: 04/27/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.4	97	21.6	108	11	(80 - 120)	20
TOLUENE	<1.0	20.0	19.4	97	21.5	108	10	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.0	95	21.1	106	10	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	56.3	94	62.7	105	11	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	21.2	106	24.2	121	13	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 4-21-06 PAGE: 1 OF 1

PLI Accession #: 0604128

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:

COMPANY: BIOTECH REMEDIATION

ADDRESS: 501 AIRPORT DR. FARMINGTON, N.M.

PHONE: 505-327-4965

FAX:

BILL TO:

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
INFLUENT	4-19-06	1355 #1400	H2O	01
EFFLUENT		1400		02

ANALYSIS REQUEST

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

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

PROJECT INFORMATION

PROJ. NO.: 810

PROJ. NAME: AIRSTRIPPER

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS	4
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	Yes
BLUE ICE/ICE	12C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☐

*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ | METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: Time: 1330

Printed Name: MIKE BEAUPARLANT Date: 4-21-06

Company:

See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: (LAB) 2

Signature: Time: 1554

Printed Name: Date: 4-21-06

Company: Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **605130**
June 07, 2006

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name AIR STRIPPER
Project Number 810

Attention: MIKE BEAUPARLANT

On 05/19/06 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 605130
PROJECT #	: 810	DATE RECEIVED	: 05/19/06
PROJECT NAME	: AIR STRIPPER	REPORT DATE	: 06/07/06

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
605130 - 01	AS-INFLUENT	AQUEOUS	05/19/06
605130 - 02	AS-EFFLUENT	AQUEOUS	05/19/06

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : AIR STRIPPER

PINNACLE I.D. : 605130
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	AS-INFLUENT	AQUEOUS	05/19/06	NA	06/02/06	10
02	AS-EFFLUENT	AQUEOUS	05/19/06	NA	06/02/06	1

PARAMETER	DET. LIMIT	UNITS	AS-INFLUENT	AS-EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**4.5 - D10**	**0.18 - D1**
HYDROCARBON RANGE			**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**69**	< 0.5
TOLUENE	0.5	UG/L	< 5.0	< 0.5
ETHYLBENZENE	**0.5**	**UG/L**	**73**	< 0.5
TOTAL XYLENES	**2.0**	**UG/L**	**210**	< 2.0
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**110**	**6.8**
SURROGATE:				
TRIFLUOROTOLUENE (%)			89	80
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
D10 = GRO was reported from a 10X dilution run on 05-30-06.
D1 = GRO was reported from a 1X dilution run on 05-30-06.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 605130
BLANK I.D.	: 053006	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 05/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 605130
BLANK I.D.	: 060206	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 06/02/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
TRIFLUOROTOLUENE (%)		101
SURROGATE LIMITS	(80 - 120)	

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 605130
BATCH ID	: 053006	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 05/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMIT
FUEL HYDROCARBONS	<0.10	1.00	1.07	107	1.01	101	6	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 605130
BATCH ID	: 060206	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 06/02/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	10.4	104	10.1	101	3	(80 - 120)	20
TOLUENE	<0.5	10.0	9.34	93	9.41	94	1	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	9.27	93	9.38	94	1	(80 - 120)	20
TOTAL XYLENES	<2.0	30.0	28.4	95	28.6	95	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	10.0	10.6	106	11.3	113	6	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 605130
SAMPLE ID	: 605130-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 05/30/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMIT
FUEL HYDROCARBONS	0.18	1.00	1.09	91	1.09	91	0	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 605130
SAMPLE ID	: 605130-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 06/02/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIR STRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	9.61	96	9.68	97	1	(80 - 120)	20
TOLUENE	<0.5	10.0	8.74	87	8.72	87	0	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	9.29	93	9.36	94	1	(80 - 120)	20
TOTAL XYLENES	<2.0	30.0	28.4	95	28.5	95	0	(80 - 120)	20
METHYL-t-BUTYL ETHER	**6.8**	10.0	18.0	112	17.6	108	2	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 5-19-06 PAGE: 1 OF 1

PLI Accession #: 605130

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Mike Beauparlant

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

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
AS-Influent	5-19-06	0832	H2O	01
AS-Effluent	5-19-06	0837	H2O	02

ANALYSIS REQUEST

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

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

PROJECT INFORMATION

PROJ. NO.: 810
PROJ. NAME: Air Stripper
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS	4
CUSTODY SEALS	Y / N (NA)
RECEIVED INTACT	Y/N
BLUE ICE/ICE	2.3°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: [signature] Time: 1000
Printed Name: Mike Beauparlant Date: 5-19-06
Company:
See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: [signature] Time: 10:15
Printed Name: Nathan Willis Date: 5-19-06
Company: AES

RELINQUISHED BY: 2.

Signature: [signature] Time: 10:35
Printed Name: Nathan Willis Date: 5-19-06
Company: AES

RECEIVED BY: (LAB) 2.

Signature: [signature] Time: 1045
Printed Name: Francine Tanner Date: 5/19/06
Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **606227**
July 24, 2006

ANIMAS ENVIRONMENTAL SERVICES
624 EAST COMMANCHE
FARMINGTON, NM 87401

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name THRIFTWAY REFINERY
Project Number 810

Attention: MIKE BEAUPARLANT/ROSS KENNEMER

On 06/30/06 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8015 DRO was performed by Severn Trent Services, Pensacola, FL.

All other analyses were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

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

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

MR: jt

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 606227
PROJECT #	: 810	DATE RECEIVED	: 06/30/06
PROJECT NAME	: THRIFTWAY REFINERY	REPORT DATE	: 07/24/06

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
606227 - 01	MW-18	AQUEOUS	06/27/06
606227 - 02	MW-5	AQUEOUS	06/27/06
606227 - 03	MW-17	AQUEOUS	06/27/06
606227 - 04	AS-INFLUENT	AQUEOUS	06/28/06
606227 - 05	AS-EFFLUENT	AQUEOUS	06/28/06
606227 - 06	MW-14	AQUEOUS	06/28/06
606227 - 07	MW-1	AQUEOUS	06/28/06
606227 - 08	MW-10	AQUEOUS	06/28/06
606227 - 09	MW-20	AQUEOUS	06/28/06
606227 - 10	MW-21	AQUEOUS	06/28/06
606227 - 11	MW-22	AQUEOUS	06/28/06
606227 - 12	MW-2	AQUEOUS	06/28/06
606227 - 13	RW-26	AQUEOUS	06/28/06

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : THRIFTWAY REFINERY

PINNACLE I.D. : 606227
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-18	AQUEOUS	06/27/06	NA	07/10/06	1
02	MW-5	AQUEOUS	06/27/06	NA	07/07/06	1
03	MW-17	AQUEOUS	06/27/06	NA	07/10/06	10

PARAMETER	DET. LIMIT	UNITS	MW-18	MW-5	MW-17
FUEL HYDROCARBONS	**0.10**	**MG/L**	**0.11**	< 0.10 - **D1**	**3.2**
HYDROCARBON RANGE			**C6-C10**	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**2.5**	**1.5**	**1200**
TOLUENE	**0.5**	**UG/L**	< 0.5	< 0.5	**15**
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	< 0.5	**77**
TOTAL XYLENES	**2.0**	**UG/L**	< 2.0	< 2.0	**97**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**83**	**37**	< 25
SURROGATE:					
BROMOFLUOROBENZENE (%)			94	87	98
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
D1 = GRO data was reported from 1X dilutions run on 07-10-06.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : THRIFTWAY REFINERY

PINNACLE I.D. : 606227
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	AS-INFLUENT	AQUEOUS	06/28/06	NA	07/10/06	1
05	AS-EFFLUENT	AQUEOUS	06/28/06	NA	07/07/06	1
06	MW-14	AQUEOUS	06/28/06	NA	07/07/06	1

PARAMETER	DET. LIMIT	UNITS	AS-INFLUENT	AS-EFFLUENT	MW-14
FUEL HYDROCARBONS	**0.10**	**MG/L**	**0.54**	**< 0.10 - D1**	**0.96 - D1**
HYDROCARBON RANGE			**C6-C10**	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**40**	< 0.5	**110**
TOLUENE	**0.5**	**UG/L**	**1.1**	< 0.5	< 0.5
ETHYLBENZENE	**0.5**	**UG/L**	**16**	< 0.5	**77**
TOTAL XYLENES	**2.0**	**UG/L**	**23**	< 2.0	**3.6**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**38**	**20**	< 2.5
SURROGATE:					
BROMOFLUOROBENZENE (%)			99	98	106
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
D1 = GRO data was reported from 1X dilutions run on 07-10-06.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : THRIFTWAY REFINERY

PINNACLE I.D. : 606227
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-1	AQUEOUS	06/28/06	NA	07/07/06	1
08	MW-10	AQUEOUS	06/28/06	NA	07/07/06	1
09	MW-20	AQUEOUS	06/28/06	NA	07/10/06	1

PARAMETER	DET. LIMIT	UNITS	MW-1	MW-10	MW-20
FUEL HYDROCARBONS	**0.10**	**MG/L**	**0.10 - D1**	< 0.10 - **D1**	**0.23**
HYDROCARBON RANGE			**C6-C10**	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**7.4**	< 0.5	**0.6**
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	< 2.5	< 2.5	**310 - D10**
SURROGATE:					
BROMOFLUOROBENZENE (%)			100	103	100
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
D10 = Reported from a 10X dilution run on 07-07-06.
D1 = GRO data was reported from 1X dilutions run on 07-10-06.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : THRIFTWAY REFINERY

PINNACLE I.D. : 606227
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	MW-21	AQUEOUS	06/28/06	NA	07/07/06	1
11	MW-22	AQUEOUS	06/28/06	NA	07/07/06	1
12	MW-2	AQUEOUS	06/28/06	NA	07/10/06	5

PARAMETER	DET. LIMIT	UNITS	MW-21	MW-22	MW-2
FUEL HYDROCARBONS	**0.10**	**MG/L**	< 0.10 - **D1**	< 0.10 - **D1**	**2.9**
HYDROCARBON RANGE			C6-C10	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**2.9**	< 0.5	**360**
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 2.5
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	< 0.5	**150**
TOTAL XYLENES	**2.0**	**UG/L**	< 2.0	< 2.0	**45**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**17**	**8.6**	**50**
SURROGATE:					
BROMOFLUOROBENZENE (%)			106	101	105
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
D1 = GRO data was reported from 1X dilutions run on 07-10-06.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST	: EPA 8021B / 8015B GRO		
CLIENT	: BIOTECH REMEDIATION	PINNACLE I.D.	: 606227
PROJECT #	: 810	ANALYST	: BP
PROJECT NAME	: THRIFTWAY REFINERY		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	RW-26	AQUEOUS	06/28/06	NA	07/10/06	10

PARAMETER	DET. LIMIT	UNITS	RW-26
FUEL HYDROCARBONS	**0.10**	**MG/L**	**6.2**
HYDROCARBON RANGE			**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**
BENZENE	**0.5**	**UG/L**	**1300**
TOLUENE	**0.5**	**UG/L**	**36**
ETHYLBENZENE	**0.5**	**UG/L**	**64**
TOTAL XYLENES	**2.0**	**UG/L**	**1000**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**330**

SURROGATE:
BROMOFLUOROBENZENE (%) 110
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 606227
BLANK I.D.	: 070706	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/07/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		96
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 606227
BLANK I.D.	: 071006	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/10/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		106
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 606227
BATCH ID	: 070706	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/07/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.952	95	0.898	90	6	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 606227
BATCH ID	: 071006	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/10/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.912	91	0.974	97	7	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 606227
BATCH ID	: 070706	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/07/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.3	97	19.9	100	3	(80 - 120)	20
TOLUENE	<0.5	20.0	19.3	97	19.8	99	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.3	97	19.8	99	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	57.7	96	59.4	99	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	17.7	89	18.3	92	3	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 606227
BATCH ID	: 071006	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/10/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.8	104	20.3	102	2	(80 - 120)	20
TOLUENE	<0.5	20.0	20.8	104	20.3	102	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.7	104	20.4	102	1	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	62.4	104	61.3	102	2	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.3	97	19.0	95	2	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 606227
SAMPLE ID	: 606227-01	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/10/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	**0.11**	1.00	1.05	94	1.10	99	5	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 606227
SAMPLE ID	: 606227-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 07/07/06
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	**1.5**	20.0	22.7	106	22.0	103	3	(80 - 120)	20
TOLUENE	<0.5	20.0	21.4	107	20.8	104	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.3	107	20.7	104	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	63.8	106	61.8	103	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	**37**	20.0	59.9	115	56.1	96	7	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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SEVERN TRENT STL

ANALYTICAL REPORT

Job Number: 400-13214-1

Job Description: 606227

For:
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Attention: Jacinta Tenorio

Marty Edwards

Marty Edwards
Project Manager I
medwards@stl-inc.com
07/14/2006

Project Manager: Marty Edwards

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Tel (850) 474-1001 Fax (850) 478-2671 www.stl-inc.com

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METHOD SUMMARY

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-PEN	SW846 8015B	
Continuous Liquid-Liquid Extraction	STL-PEN		SW846 3520C

LAB REFERENCES:

STL-PEN = STL-Pensacola

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Method	Analyst	Analyst ID
SW846 8015B	Ayers, Kim	KA

SAMPLE SUMMARY

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-13214-1	MW-18/606227-01	Water	06/27/2006 1431	07/08/2006 1030
400-13214-2	MW-5/606227-02	Water	06/27/2006 1503	07/08/2006 1030
400-13214-3	MW-17/606227-03	Water	06/27/2006 1541	07/08/2006 1030
400-13214-4	MW-14/606227-06	Water	06/28/2006 1301	07/08/2006 1030
400-13214-5	MW-1/606227-07	Water	06/28/2006 1324	07/08/2006 1030
400-13214-6	MW-10/606227-08	Water	06/28/2006 1358	07/08/2006 1030
400-13214-7	MW-20/606227-09	Water	06/28/2006 1430	07/08/2006 1030
400-13214-8	MW-21/606227-10	Water	06/28/2006 1454	07/08/2006 1030
400-13214-9	MW-22/606227-11	Water	06/28/2006 1512	07/08/2006 1030
400-13214-10	MW-2/606227-12	Water	06/28/2006 1603	07/08/2006 1030
400-13214-11	RW-26/606227-13	Water	06/28/2006 1631	07/08/2006 1030

SAMPLE RESULTS

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-18/606227-01**

Lab Sample ID: 400-13214-1
Client Matrix: Water

Date Sampled: 06/27/2006 1431
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1329
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5101051.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	19000		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-5/606227-02**

Lab Sample ID: 400-13214-2
Client Matrix: Water

Date Sampled: 06/27/2006 1503
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1337
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5201052.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-17/606227-03**

Lab Sample ID: 400-13214-3
Client Matrix: Water

Date Sampled: 06/27/2006 1541
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1344
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5301053.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	3800		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-14/606227-06**

Lab Sample ID: 400-13214-4
Client Matrix: Water

Date Sampled: 06/28/2006 1301
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1352
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5401054.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-1/606227-07**

Lab Sample ID: 400-13214-5
Client Matrix: Water

Date Sampled: 06/28/2006 1324
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1359
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5501055.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-10/606227-08**

Lab Sample ID: 400-13214-6
Client Matrix: Water

Date Sampled: 06/28/2006 1358
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1406
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5601056.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-20/606227-09**

Lab Sample ID: 400-13214-7
Client Matrix: Water

Date Sampled: 06/28/2006 1430
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1414
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5701057.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	3200		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-21/606227-10**

Lab Sample ID: 400-13214-8
Client Matrix: Water

Date Sampled: 06/28/2006 1454
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1421
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 5801058.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-22/606227-11**

Lab Sample ID: 400-13214-9
Client Matrix: Water

Date Sampled: 06/28/2006 1512
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1436
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 6001060.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	<2500		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **MW-2/606227-12**

Lab Sample ID: 400-13214-10
Client Matrix: Water

Date Sampled: 06/28/2006 1603
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1443
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 6101061.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	210000		2500
Oil Range Organics (C28-C35)	<2500		2500

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Client Sample ID: **RW-26/606227-13**

Lab Sample ID: 400-13214-11
Client Matrix: Water

Date Sampled: 06/28/2006 1631
Date Received: 07/08/2006 1030

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 07/12/2006 1451
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045

Instrument ID: GC/FID/FID
Lab File ID: 6201062.D
Initial Weight/Volume: 40.0 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	9600		2500
Oil Range Organics (C28-C35)	<2500		2500

QUALITY CONTROL RESULTS

Client: Pinnacle Laboratories

Job Number: 400-13214-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 400-30045				
LCS 400-30045/3-A	Lab Control Spike	Water	3520C	
MB 400-30045/4-A	Method Blank	Water	3520C	
400-13214-1	MW-18/606227-01	Water	3520C	
400-13214-2	MW-5/606227-02	Water	3520C	
400-13214-3	MW-17/606227-03	Water	3520C	
400-13214-4	MW-14/606227-06	Water	3520C	
400-13214-5	MW-1/606227-07	Water	3520C	
400-13214-6	MW-10/606227-08	Water	3520C	
400-13214-7	MW-20/606227-09	Water	3520C	
400-13214-8	MW-21/606227-10	Water	3520C	
400-13214-9	MW-22/606227-11	Water	3520C	
400-13214-10	MW-2/606227-12	Water	3520C	
400-13214-11	RW-26/606227-13	Water	3520C	
Analysis Batch:400-30246				
LCS 400-30045/3-A	Lab Control Spike	Water	8015B	400-30045
MB 400-30045/4-A	Method Blank	Water	8015B	400-30045
400-13214-1	MW-18/606227-01	Water	8015B	400-30045
400-13214-2	MW-5/606227-02	Water	8015B	400-30045
400-13214-3	MW-17/606227-03	Water	8015B	400-30045
400-13214-4	MW-14/606227-06	Water	8015B	400-30045
400-13214-5	MW-1/606227-07	Water	8015B	400-30045
400-13214-6	MW-10/606227-08	Water	8015B	400-30045
400-13214-7	MW-20/606227-09	Water	8015B	400-30045
400-13214-8	MW-21/606227-10	Water	8015B	400-30045
400-13214-9	MW-22/606227-11	Water	8015B	400-30045
400-13214-10	MW-2/606227-12	Water	8015B	400-30045
400-13214-11	RW-26/606227-13	Water	8015B	400-30045

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Method Blank - Batch: 400-30045

Method: 8015B
Preparation: 3520C

Lab Sample ID: MB 400-30045/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/12/2006 1458
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: 6301063.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	<100		100
Oil Range Organics (C28-C35)	<100		100

Laboratory Control Sample - Batch: 400-30045

Method: 8015B
Preparation: 3520C

Lab Sample ID: LCS 400-30045/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/11/2006 1436
Date Prepared: 07/10/2006 0619

Analysis Batch: 400-30246
Prep Batch: 400-30045
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: 0601006.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C28]	10100	10100	100	57 - 122	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Pinnacle Laboratories

Job Number: 400-13214-1

Login Number: 13214

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	5.9°C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Only 40 ml vials were sumitted for DRO/ORO.
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 6-29-06 PAGE: 1 OF ____

PLI Accession #: (60629-7

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Gwen Frost

COMPANY: Arsenal Env. Services, LLC

ADDRESS: 624 Comanche
Farm., NM 87401

PHONE:

FAX:

BILL TO: Bio Tech Remediation

COMPANY:

ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	8021 BTEX/ 8015 GRO	(M8015) Gas/Purge & Trap	8021 (BTEX) 8015 (Gasoline) (MTBE)	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8015 (GRO/DRO)	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:	NUMBER OF CONTAINERS
MW-18	6-27-06	1431	H_2O	01					X						X	X															4
MW-5		1503		02					X						X	X															4
MW-17		1541		03					X						X	X															4
AS-INFLUENT	6-28-06	1151		04			X		X						X	X															4
AS-EFFLUENT		1158		05			X		X						X	X															4
MW-14		1301		06					X						X	X															4
MW-1		1324		07					X						X	X															4
MW-10		1358		08					X						X	X															4
MW-20		1430		09					X						X	X															4
MW-21		1454		10					X						X	X															4

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

PROJECT INFORMATION

PROJ. NO.: 810

PROJ. NAME: Thriftway Refinery

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	
BLUE ICE/ICE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: Time: 0950

Printed Name: Date:
Mike Beaudoin 6/29/06

Company: Bitech

See Reverse side (Force Majeure)

RECEIVED BY: 1

Signature: Time: 9:50

Printed Name: Date: 6/29/06
Gwen Frost

Company: AES

RELINQUISHED BY: 2.

Signature: Time: 2:30pm

Printed Name: Date: 6-29-06
Gwen Frost

Company: AES

RECEIVED BY - (LAB) 2.

Signature: Time: 1117

Printed Name: Date: 6.30.06
Pinnacle Laboratories Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

(Continuation Sheet)

PAGE _____ OF _____

CLIENT: AES

P.O. NUMBER Refinery #810

AEN(NM) Assession#: 1006827

PARAMETERS

CLIENT SAMPLE ID	LAB ID	DATE AND TIME	MATRIX	8021 / 8015 GRO : DRO	BOTTLE TYPE & NO.	NET PRICE
MW-22	11	6-28-06 1512	H_2O	X	4	
MW-2	12	1603		X	4	
RW-26	13	1631		X	4	

SAMPLES RELINQUISHED BY (SIGNATURE)	DATE AND TIME	SAMPLES RELINQUISHED BY (SIGNATURE)	DATE AND TIME	REMARKS ON SAMPLE RECEIPT
	6-29-05 9:50am	AK Frost	6-29-05 2:30pm	☐ Bottle Intact ☐ Preserved ☐ Chilled ☐ Custody Seals ☐ Seals Intact ☐ See Remarks
SAMPLES RECEIVED BY (SIGNATURE)	**DATE AND TIME**	**SAMPLES RECEIVED BY (SIGNATURE)**	**DATE AND TIME**	**REMARKS ON SAMPLE RECEIPT**
AK Frost	6-29-05 9:50 am			☐ Bottle Intact ☐ Preserved ☐ Chilled ☐ Custody Seals ☐ Seals Intact ☐ See Remarks

DISTRIBUTION: White - AEN (NM), Canary - Originator

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **608017**
August 10, 2006

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name REFINERY AIR STRIPPER
Project Number 810

Attention: MIKE BEAUPARLANT/GWEN FROST

On 08/02/2006 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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www.pinnaclelabs.org www.pinnaclelabsonline.com

PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 608017
PROJECT #	: 810	DATE RECEIVED	: 08/02/2006
PROJECT NAME	: REFINERY AIR STRIPPER	REPORT DATE	: 08/10/2006

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
608017 - 01	AS/INFLUENT	AQUEOUS	07/31/2006
608017 - 02	AS/EFFLUENT	AQUEOUS	07/31/2006

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : REFINERY AIR STRIPPER

PINNACLE I.D. : 608017
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR	
01	AS/INFLUENT	AQUEOUS	07/31/2006	NA	08/03/2006	10	
02	AS/EFFLUENT	AQUEOUS	07/31/2006	NA	08/03/2006	5	**D1**

PARAMETER	DET. LIMIT	UNITS	AS/INFLUENT	AS/EFFLUENT
BENZENE	**0.5**	**UG/L**	**95**	< 2.5
TOLUENE	0.5	UG/L	< 5.0	< 2.5
ETHYLBENZENE	**0.5**	**UG/L**	**120**	**7.2**
TOTAL XYLENES	**2.0**	**UG/L**	**150**	**21**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**79**	< 13
SURROGATE:				
BROMOFLUOROBENZENE (%)			100	96
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
D1 = Dilution due to matrix interferences.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 608017
BLANK I.D.	: 080306	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/03/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		108
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 608017
BATCH ID	: 080306	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/03/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.2	101	20.3	102	0	(80 - 120)	20
TOLUENE	<0.5	20.0	20.2	101	20.3	102	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.3	102	20.3	102	0	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	60.8	101	60.8	101	0	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	18.8	94	18.9	95	1	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 608017
SAMPLE ID	: 608018-06	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/03/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	23.3	117	20.2	101	14	(80 - 120)	20
TOLUENE	<0.5	20.0	23.4	117	20.3	102	14	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	23.5	118	20.3	102	15	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	71.0	118	61.2	102	15	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	22.8	114	19.3	97	17	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST	: EPA 8015B GRO		
CLIENT	: BIOTECH REMEDIATION	PINNACLE I.D.	: 608017
PROJECT #	: 810	ANALYST	: BP
PROJECT NAME	: REFINERY AIR STRIPPER		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR	
01	AS/INFLUENT	AQUEOUS	07/31/2006	NA	08/07/2006	10	
02	AS/EFFLUENT	AQUEOUS	07/31/2006	NA	08/07/2006	5	**D1**

PARAMETER	DET. LIMIT	UNITS	AS/INFLUENT	AS/EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**6.4**	**2.7**
HYDROCARBON RANGE			**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**

CHEMIST NOTES:
D1 = Dilution due to matrix interferences.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 608017
BLANK I.D.	: 080706	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/07/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 608017
BATCH ID	: 080706	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/07/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	1.01	101	0.970	97	4	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 608017
SAMPLE ID	: 608017-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 08/07/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: REFINERY AIR STRIPPER	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	**2.7**	5.00	6.49	76	6.09	68 - **M4**	6	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
M4 = % REC is outside of PLI criteria due to sample concentration.

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

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

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Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7-31-06 PAGE: 1 OF 1

PLI Accession #: 608017

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PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: MIKE BEAUPARLANT

COMPANY: BIOTECH REMEDIATION INC.

ADDRESS: 501 AIRPORT DR.
FARMINGTON, NM. 87401

PHONE: 505-327-4965

FAX:

BILL TO: BIOTECH

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
AS / INFLUENT	7-31-06	1015	H20	01				✓																						2
AS / EFFLUENT	7-31-06	1025	H20	02				✓																						2

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

PROJECT INFORMATION

PROJ. NO.: 810

PROJ. NAME: REFINERY AIR STRIPPER

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	4
CUSTODY SEALS	Y / N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	4°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) X

*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: M Beauparlant Time: 0930	Signature: GR Frost Time: 0200
Printed Name: M. BEAUPARLANT Date: 8-1-06	Printed Name: Gwen Frost Date: 8/1/06
Company: See Reverse side (Force Majeure)	Company: AES
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: GR Frost Time: 0935	Signature: Time: 1215
Printed Name: Gwen Frost Date: 8-1-06	Printed Name: Date: 8/2/06
Company: AES	Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **609002**
September 20, 2006

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name THRIFTWAY REFINERY
Project Number 810

Attention: Mike Beauparlant

On 09/01/2006 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 609002
PROJECT #	: 810	DATE RECEIVED	: 09/01/2006
PROJECT NAME	: THRIFTWAY REFINERY	REPORT DATE	: 09/20/2006

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
609002 - 01	AS-INFLUENT	AQUEOUS	08/30/2006
609002 - 02	AS-EFFLUENT	AQUEOUS	08/30/2006

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : THRIFTWAY REFINERY

PINNACLE I.D. : 609002
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	AS-INFLUENT	AQUEOUS	08/30/2006	NA	09/11/2006	10
02	AS-EFFLUENT	AQUEOUS	08/30/2006	NA	09/11/2006	1

PARAMETER	DET. LIMIT	UNITS	AS-INFLUENT	AS-EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**1.7**	**0.18**
HYDROCARBON RANGE			**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**280**	**2.4**
TOLUENE	**0.5**	**UG/L**	< 5.0	**0.6**
ETHYLBENZENE	**0.5**	**UG/L**	**92**	**1.9**
TOTAL XYLENES	**2.0**	**UG/L**	**32**	< 2.0
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**150**	**40**
SURROGATE:				
BROMOFLUOROBENZENE (%)			103	111
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 609002
BLANK I.D.	: 091106	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 09/11/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		107
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 609002
BATCH ID	: 091106	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 09/11/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.907	91	0.909	91	0	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING		GASOLINE							

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 609002
BATCH ID	: 091106	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 09/11/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.1	95	22.7	114	17	(80 - 120)	20
TOLUENE	<0.5	20.0	19.3	96	22.9	115	17	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.7	99	23.4	117	17	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	59.3	99	70.7	118	18	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	18.2	91	22.1	111	20	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 609002
SAMPLE ID	: 609002-02	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 09/11/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	**0.18**	1.00	1.02	84	1.01	83	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 609002
SAMPLE ID	: 609002-02	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 09/11/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: THRIFTWAY REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	**2.4**	20.0	24.9	113	21.4	95	15	(80 - 120)	20
TOLUENE	**0.6**	20.0	23.9	117	20.5	100	15	(80 - 120)	20
ETHYLBENZENE	**1.9**	20.0	25.3	117	21.8	100	15	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	73.4	122-**M1**	63.1	105	15	(80 - 120)	20
METHYL-t-BUTYL ETHER	**40**	20.0	67.4	137-**M1**	57.9	90	15	(70 - 133)	20

CHEMIST NOTES:
M1 = Matrix spike compound does not meet criteria due to confirmed matrix effects.

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

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

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PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 8/30/06 PAGE: 1 OF 1

PLI Accession #: 608 609002

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: MIKE BEAUDARLANT

COMPANY: BIOTECH REMEDIATION INC.
ADDRESS: 501 AIRPORT DR.
FARMINGTON, NM. 87401
PHONE: 505-327-4965
FAX:
BILL TO: BIO TECH
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
AS-INFLUENT	8-30-06	1110	H20	01				X																						2
AS-EFFLUENT	8-30-06	1119	H20	02				X																						2

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

PROJECT INFORMATION

PROJ. NO.: 810
PROJ. NAME: THRIFTWAY REFINERY
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	4
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	Yes
BLUE ICE/ICE	2 10°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature:	Signature: A R Frost
Time: 1320	Time: 1415
Printed Name: M. Beaudarlant	Printed Name: Gwen Frost
Date: 8-30-06	Date: 8/30/06
Company: Biotech	Company: AES
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: A R Frost	Signature:
Time: 1320	Time: 1250
Printed Name: A R Frost	Printed Name: Greg M Sexton
Date: 8-30-06	Date: 9/1/06
Company: AES	Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **609257**
October 18, 2006

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name AIRSTRIPPER
Project Number 810

Attention: MIKE BEAUPARLANT/GWEN FROST

On 09/29/2006 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 609257
PROJECT #	: 810	DATE RECEIVED	: 09/29/2006
PROJECT NAME	: AIRSTRIPPER	REPORT DATE	: 10/18/2006

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
609257 - 01	AS/INFLUENT	AQUEOUS	09/28/2006
609257 - 02	AS/EFFLUENT	AQUEOUS	09/28/2006

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : AIRSTRIPPER

PINNACLE I.D. : 609257
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	AS/INFLUENT	AQUEOUS	09/28/2006	NA	10/06/2006	10
02	AS/EFFLUENT	AQUEOUS	09/28/2006	NA	10/06/2006	1

PARAMETER	DET. LIMIT	UNITS	AS/INFLUENT	AS/EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**1.8**	**0.58**
HYDROCARBON RANGE			**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**	**GASOLINE**
BENZENE	**0.5**	**UG/L**	**170**	< 0.5
TOLUENE	0.5	UG/L	< 5.0	< 0.5
ETHYLBENZENE	**0.5**	**UG/L**	**92**	**2.2**
TOTAL XYLENES	**2.0**	**UG/L**	**120**	**7.8**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**140**	**27**
SURROGATE:				
BROMOFLUOROBENZENE (%)			106	111
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 609257
BLANK I.D.	: 100606	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 10/06/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		107
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 609257
BATCH ID	: 100606	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 10/06/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.827	83	0.905	91	9	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							

HYDROCARBONS QUANTITATED USING GASOLINE

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 609257
BATCH ID	: 100606	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 10/06/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	21.2	106	19.6	98	8	(80 - 120)	20
TOLUENE	<0.5	20.0	21.8	109	20.2	101	8	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	22.5	113	20.8	104	8	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	68.0	113	63.0	105	8	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	20.4	102	18.6	93	9	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 609257
SAMPLE ID	: 610096-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 10/06/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.904	90	0.973	97	7	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							

HYDROCARBONS QUANTITATED USING GASOLINE

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 609257
SAMPLE ID	: 610096-02	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 10/06/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.8	104	21.4	107	3	(80 - 120)	20
TOLUENE	<0.5	20.0	20.9	105	21.7	109	4	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.9	110	22.6	113	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	65.7	110	67.9	113	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.3	97	19.4	97	1	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 9-28-06 PAGE: 1 OF 1

PLI Accession #: 609257

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PROJECT MANAGER: Gwen Frost - AES

COMPANY: Biotech Remediation

ADDRESS: 501 Airport Dr. Suite 104
Farmington, NM. 87401

PHONE: 505-396-4965

FAX:

BILL TO: Bio Tech

COMPANY:

ADDRESS: Fmn, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
AS/INFLUENT	9-28-06	0910	H2O	01				X																						2
AS/EFFLUENT	9-28-06	0910	H2O	02				X																						2

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

PROJECT INFORMATION	
PROJ. NO.:	810
PROJ. NAME:	AIR STRIPPER
P.O. NO.:	
SHIPPED VIA:	

SAMPLE RECEIPT	
NO CONTAINERS	4
CUSTODY SEALS	Y / N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	2.5°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒

*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1100	Signature: Time: 1450
Printed Name: Mike Beauchamp Date: 9-28-06	Printed Name: G R Frost Date: 9/28/06
Company: Biotech	Company: AES
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 1105	Signature: Time: 1329
Printed Name: Date: 9/28/06	Printed Name: Date: 9/29/06
Company: AES	Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **612036**
January 02, 2007

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name AIRSTRIPPER
Project Number 810

Attention: MIKE BEAUPARLANT/GWEN FROST

On 12/05/2006 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 612036
PROJECT #	: 810	DATE RECEIVED	: 12/05/2006
PROJECT NAME	: AIRSTRIPPER	REPORT DATE	: 01/02/2006

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
612036 - 01	810 AS/INFLUENT	AQUEOUS	11/30/2006
612036 - 02	810 AS/EFFLUENT	AQUEOUS	11/30/2006

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : AIRSTRIPPER

PINNACLE I.D. : 612036
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	810 AS/INFLUENT	AQUEOUS	11/30/2006	NA	12/14/2006	5
02	810 AS/EFFLUENT	AQUEOUS	11/30/2006	NA	12/14/2006	1

PARAMETER	DET. LIMIT	UNITS	810 AS/INFLUENT	810 AS/EFFLUENT
FUEL HYDROCARBONS	**0.10**	**MG/L**	**0.96**	< 0.10
HYDROCARBON RANGE			**C6-C10**	C6-C10
HYDROCARBONS QUANTITATED USING			**GASOLINE**	GASOLINE

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 612036
BLANK I.D.	: 121406	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/14/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 612036
BATCH ID	: 121406	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/14/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.921	92	0.914	91	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							

HYDROCARBONS QUANTITATED USING GASOLINE

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 612036
SAMPLE ID	: 612036-02	DATE EXTRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/14/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	0.990	99	0.978	98	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B
CLIENT : BIOTECH REMEDIATION
PROJECT # : 810
PROJECT NAME : AIRSTRIPPER

PINNACLE I.D. : 612036
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	810 AS/INFLUENT	AQUEOUS	11/30/2006	NA	12/12/2006	10
02	810 AS/EFFLUENT	AQUEOUS	11/30/2006	NA	12/12/2006	1

PARAMETER	DET. LIMIT	UNITS	810 AS/INFLUENT	810 AS/EFFLUENT	
BENZENE	**0.5**	**UG/L**	**29**	< 0.5	
TOLUENE	0.5	UG/L	< 5.0	< 0.5	
ETHYLBENZENE	**0.5**	**UG/L**	**49**	< 0.5	
TOTAL XYLENES	**2.0**	**UG/L**	**20**	< 2.0	
METHYL-t-BUTYL ETHER	2.5	UG/L	< 25	< 2.5	**C2**
SURROGATE:					
BROMOFLUOROBENZENE (%)			97	96	
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
C2 = CCV was less than established limits. Results may be biased low.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 612036
BLANK I.D.	: 121206	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/12/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	ANALYST	: BP

PARAMETER	UNITS		
BENZENE	UG/L	<0.5	
TOLUENE	UG/L	<0.5	
ETHYLBENZENE	UG/L	<0.5	
TOTAL XYLENES	UG/L	<2.0	
METHYL-t-BUTYL ETHER	UG/L	<2.5	**C2**
SURROGATE:			
BROMOFLUOROBENZENE (%)		99	
SURROGATE LIMITS	(80 - 120)		

CHEMIST NOTES:
C2 = CCV was less than established limits. Results may be biased low.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 612036
BATCH ID	: 121206	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/12/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE		SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0		19.3	97	23.1	115	18	(80 - 120)	20
TOLUENE	<0.5	20.0		19.2	96	23.0	115	18	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0		19.4	97	23.2	116	18	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0		58.1	97	70.0	117	19	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	**C2**	9.56	48 - **M4 C2**	11.7	59 - **M4**	20	(70 - 133)	20

CHEMIST NOTES:
M4 = %REC is outside of PLI criteria.
C2 = CCV was less than established limits. Results may be biased low.

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 612036
SAMPLE ID	: 612036-02	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 12/12/2006
PROJECT #	: 810	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AIRSTRIPPER	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE		SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0		21.1	106	19.4	97	8	(80 - 120)	20
TOLUENE	<0.5	20.0		21.5	108	19.4	97	10	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0		21.3	107	19.4	97	9	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0		64.1	107	57.6	96	11	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	**C2**	6.73	34 - **M4 C2**	3.70	19 - **M4**	8-**M3**	(70 - 133)	20

CHEMIST NOTES:
M3 = RPD is outside of PLI criteria.
M4 = %REC is outside of PLI criteria.
C2 = CCV was less than established limits. Results may be biased low.

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

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

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PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 12-4-06 PAGE: 1 OF 1

PLI Accession #: 612036

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: MIKE BEAUPARLANT

COMPANY: BIOTECH REMEDIATION

ADDRESS: 501 AIRPORT DR.
FARMINGTON, N.M.

PHONE: 505-660-1792 (Cell.)

FAX:

BILL TO:

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:	NUMBER OF CONTAINERS
810 AS / INFLUENT	11-30-06	0940	H2O	01				X																					2
810 AS / EFFLUENT	11-30-6	0945	H2O	02				X																					2

ANALYSIS REQUEST

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

PROJECT INFORMATION	
PROJ. NO.:	810
PROJ. NAME:	AIR STRIPPER
P.O. NO.:	
SHIPPED VIA:	

SAMPLE RECEIPT	
NO CONTAINERS	4
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	Y N
BLUE ICE/ICE	0.9°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ | METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1000	Signature: Time: 1500
Printed Name: MIKE BEAUPARLANT Date: 12-4-06	Printed Name: GR FROST Date: 12/4/06
Company:	Company: AES
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 1100	Signature: Time: 1005
Printed Name: GR Frost Date: 12-4-06	Printed Name: Date:
Company: AES	Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **701020**
January 22, 2007

BIOTECH REMEDIATION
501 AIRPORT DRIVE SUITE 104
FARMINGTON, NM 87401

Project Name 810 Refinery
Project Number (NONE)

Attention: Nathan Willis

On 01/04/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8015/8021 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All other analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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

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

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: BIOTECH REMEDIATION	PINNACLE ID	: 701020
PROJECT #	: (NONE)	DATE RECEIVED	: 01/04/2007
PROJECT NAME	: 810 Refinery	REPORT DATE	: 01/22/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
701020 - 01	MW-10	AQUEOUS	12/28/2006
701020 - 02	MW-14	AQUEOUS	12/28/2006
701020 - 03	MW-1	AQUEOUS	12/28/2006
701020 - 04	MW-22	AQUEOUS	01/02/2007
701020 - 05	MW-21	AQUEOUS	01/02/2007
701020 - 06	MW-17	AQUEOUS	12/28/2006
701020 - 07	MW-5	AQUEOUS	12/28/2006
701020 - 08	MW-18	AQUEOUS	12/28/2006
701020 - 09	MW-20	AQUEOUS	12/28/2006
701020 - 10	Airstripper Effluent	AQUEOUS	01/02/2007
701020 - 11	Airstripper Affluent	AQUEOUS	01/02/2007
701020 - 12	Trip Blank	AQUEOUS	12/14/2006
701020 - 13	MW-3	AQUEOUS	01/02/2007

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-10	AQUEOUS	12/28/2006	NA	01/05/2007	1
02	MW-14	AQUEOUS	12/28/2006	NA	01/05/2007	1
03	MW-1	AQUEOUS	12/28/2006	NA	01/05/2007	1

PARAMETER	DET. LIMIT	UNITS	MW-10	MW-14	MW-1
FUEL HYDROCARBONS	**0.10**	**MG/L**	< 0.10	**1.4**	**14 - D100**
HYDROCARBON RANGE			C6-C10	**C6-C10**	**C6-C10**
HYDROCARBONS QUANTITATED USING			GASOLINE	**GASOLINE**	**GASOLINE**
BENZENE	**0.5**	**UG/L**	< 0.5	**160**	**4700 - D100**
TOLUENE	**0.5**	**UG/L**	< 0.5	**7.9**	**2.3**
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	**94**	**110**
TOTAL XYLENES	**2.0**	**UG/L**	< 2.0	**7.6**	**27**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	< 2.5	< 2.5	**16**
SURROGATE:					
BROMOFLUOROBENZENE (%)			101	108	95
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
D100 = Reported from a 100X dilution run on 01-08-07.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-22	AQUEOUS	01/02/2007	NA	01/08/2007	1
05	MW-21	AQUEOUS	01/02/2007	NA	01/05/2007	1
06	MW-17	AQUEOUS	12/28/2006	NA	01/05/2007	10

PARAMETER	DET. LIMIT	UNITS	MW-22	MW-21	MW-17
FUEL HYDROCARBONS	**0.10**	**MG/L**	< 0.10	< 0.10	**2.0**
HYDROCARBON RANGE			C6-C10	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE	**GASOLINE**
BENZENE	**0.5**	**UG/L**	< 0.5	< 0.5	**150**
TOLUENE	**0.5**	**UG/L**	< 0.5	< 0.5	**14**
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	< 0.5	**18**
TOTAL XYLENES	**2.0**	**UG/L**	< 2.0	< 2.0	**150**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**14**	**29**	**37**
SURROGATE:					
BROMOFLUOROBENZENE (%)			100	94	97
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-5	AQUEOUS	12/28/2006	NA	01/05/2007	1
08	MW-18	AQUEOUS	12/28/2006	NA	01/05/2007	1
09	MW-20	AQUEOUS	12/28/2006	NA	01/05/2007	10

PARAMETER	DET. LIMIT	UNITS	MW-5	MW-18	MW-20
FUEL HYDROCARBONS	**0.10**	**MG/L**	< 0.10	< 0.10	**1.6**
HYDROCARBON RANGE			C6-C10	C6-C10	**C6-C10**
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE	**GASOLINE**
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 5.0
TOLUENE	**0.5**	**UG/L**	< 0.5	< 0.5	**20**
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 5.0
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 20
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**37**	**54**	**170**
SURROGATE:					
BROMOFLUOROBENZENE (%)			97	97	95
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	Airstripper Effluent	AQUEOUS	01/02/2007	NA	01/05/2007	1
11	Airstripper Affluent	AQUEOUS	01/02/2007	NA	01/05/2007	5
12	Trip Blank	AQUEOUS	12/14/2006 **T1**	NA	01/05/2007	1

PARAMETER	DET. LIMIT	UNITS	Airstripper Effluent	Airstripper Affluent	Trip Blank
FUEL HYDROCARBONS	**0.10**	**MG/L**	< 0.10	**1.3**	< 0.10
HYDROCARBON RANGE			C6-C10	**C6-C10**	C6-C10
HYDROCARBONS QUANTITATED USING			GASOLINE	**GASOLINE**	GASOLINE
BENZENE	**0.5**	**UG/L**	< 0.5	**38**	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 2.5	< 0.5
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	**35**	< 0.5
TOTAL XYLENES	**2.0**	**UG/L**	< 2.0	**11**	< 2.0
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	< 2.5	**36**	< 2.5
SURROGATE:					
BROMOFLUOROBENZENE (%)			93	93	98
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
T1 = Trip Blank was received past the 14 day hold time.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	MW-3	AQUEOUS	01/02/2007	NA	01/08/2007	10

PARAMETER	DET. LIMIT	UNITS	MW-3
FUEL HYDROCARBONS	**0.10**	**MG/L**	**3.4**
HYDROCARBON RANGE			**C6-C10**
HYDROCARBONS QUANTITATED USING			**GASOLINE**
BENZENE	**0.5**	**UG/L**	**640**
TOLUENE	**0.5**	**UG/L**	**9.0**
ETHYLBENZENE	**0.5**	**UG/L**	**110**
TOTAL XYLENES	**2.0**	**UG/L**	**170**
METHYL-t-BUTYL ETHER	**2.5**	**UG/L**	**120**

SURROGATE:
BROMOFLUOROBENZENE (%) 97
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 701020
BLANK I.D.	: 010507	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		103
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 701020
BLANK I.D.	: 010807	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/08/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	ANALYST	: BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/L	<0.10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		96
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

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PINNACLE LABS
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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 701020
BATCH ID	: 010507	DATE EXRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	1.03	103	1.02	102	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 701020
BATCH ID	: 010807	DATE EXRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/08/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	1.05	105	1.01	101	4	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 701020
BATCH ID	: 010507	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.5	103	20.3	102	1	(80 - 120)	20
TOLUENE	<0.5	20.0	19.7	99	19.7	99	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.8	99	19.9	100	1	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	59.5	99	60.0	100	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	20.8	104	19.2	96	8	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 701020
BATCH ID	: 010807	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/08/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.2	96	19.9	100	4	(80 - 120)	20
TOLUENE	<0.5	20.0	18.5	93	19.5	98	5	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	18.7	94	19.4	97	4	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	55.9	93	58.9	98	5	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	17.9	90	17.1	86	5	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
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GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 701020
SAMPLE ID	: 701020-01	DATE EXRACTED	: N/A
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<0.10	1.00	1.03	103	1.00	100	3	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING	GASOLINE								

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 701020
SAMPLE ID	: 701020-01	DATE EXTRACTED	: NA
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.9	100	19.2	96	4	(80 - 120)	20
TOLUENE	<0.5	20.0	19.2	96	18.5	93	4	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.3	97	18.7	94	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	57.8	96	56.1	94	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.9	100	18.3	92	8	(70 - 133)	20

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : BIOTECH REMEDIATION PINNACLE I.D. : 701020
PROJECT # : (NONE) ANALYST : DRK
PROJECT NAME : 810 Refinery

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-10	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1
02	MW-14	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1
03	MW-1	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1

PARAMETER	DET. LIMIT	UNITS	MW-10	MW-14	MW-1
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	< 1.0	< 1.0	< 1.0
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	< 1.0	< 1.0	< 1.0
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			104	110	113
SURROGATE LIMITS	(70-130)				
CHEMIST NOTES:					
SCREEN HYDROCARBONS, C6-C10	2.0	MG/L	< 2.0	< 2.0	**4.3**

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : BIOTECH REMEDIATION — PINNACLE I.D. : 701020
PROJECT # : (NONE) — ANALYST : DRK
PROJECT NAME : 810 Refinery

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-22	AQUEOUS	01/02/2007	01/10/2007	01/11/2007	1
05	MW-21	AQUEOUS	01/02/2007	01/10/2007	01/11/2007	1
06	MW-17	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1

PARAMETER	DET. LIMIT	UNITS	MW-22	MW-21	MW-17
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	< 1.0	< 1.0	< 1.0
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	< 1.0	< 1.0	< 1.0
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			89	108	101
SURROGATE LIMITS	(70-130)				
CHEMIST NOTES:					
SCREEN HYDROCARBONS, C6-C10	2.0	MG/L	< 2.0	< 2.0	< 2.0

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : BIOTECH REMEDIATION — PINNACLE I.D. : 701020
PROJECT # : (NONE) — ANALYST : DRK
PROJECT NAME : 810 Refinery

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-5	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1
08	MW-18	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1
09	MW-20	AQUEOUS	12/28/2006	01/10/2007	01/11/2007	1

PARAMETER	DET. LIMIT	UNITS	MW-5	MW-18	MW-20
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	< 1.0	< 1.0	< 1.0
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	< 1.0	< 1.0	< 1.0
CALCULATED SUM:					
SURROGATE:					
O-TERPHENYL (%)			104	108	108
SURROGATE LIMITS	(70-130)				
CHEMIST NOTES:					
SCREEN HYDROCARBONS, C6-C10	2.0	MG/L	< 2.0	< 2.0	< 2.0

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : BIOTECH REMEDIATION
PROJECT # : (NONE)
PROJECT NAME : 810 Refinery

PINNACLE I.D. : 701020
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	Airstripper Effluent	AQUEOUS	01/02/2007	01/10/2007	01/11/2007	1
11	Airstripper Affluent	AQUEOUS	01/02/2007	01/10/2007	01/11/2007	1
13	MW-3	AQUEOUS	01/02/2007	01/10/2007	01/11/2007	1

PARAMETER	DET. LIMIT	UNITS	Airstripper Effluent	Airstripper Affluent	MW-3
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	< 1.0	< 1.0	**3.9**
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	< 1.0	< 1.0	< 1.0
CALCULATED SUM:					**3.9**
SURROGATE:					
O-TERPHENYL (%)			108	104	105
SURROGATE LIMITS	(70-130)				
CHEMIST NOTES:					
SCREEN HYDROCARBONS, C6-C10	2.0	MG/L	< 2.0	< 2.0	< 2.0

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 701020
BLANK I.D.	: 011007F	DATE EXTRACTED	: 01/10/2007
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/11/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	ANALYST	: DRK

PARAMETER	UNITS	
FUEL HYDROCARBONS, C10-C22	MG/L	< 1.0
FUEL HYDROCARBONS, C22-C36	MG/L	< 1.0
SURROGATE:		
O-TERPHENYL (%)		92
SURROGATE LIMITS (70-130)		

CHEMIST NOTES:

FUEL HYDROCARBONS, C6-C10	MG/L	< 2.0

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PINNACLE LABS
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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 701020
BATCH ID	: 011007F	DATE EXTRACTED	: 01/10/2007
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/11/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: MG/L

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED BLANK	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<1.0	20	20.8	104	20.1	101	3	(75-125)	20
HYDROCARBON RANGE		C10-C32							

HYDROCARBONS QUANTITATED USING DIESEL FUEL

CHEMIST NOTES:
N/A

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

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

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 701020
SAMPLE ID	: 701020-01	DATE EXTRACTED	: 01/10/2007
CLIENT	: BIOTECH REMEDIATION	DATE ANALYZED	: 01/11/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: 810 Refinery	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<1.0	20	16.9	85	20.6	103	20	(70-130)	20
HYDROCARBON RANGE		C10-C32							

HYDROCARBONS QUANTITATED USING DIESEL FUEL

CHEMIST NOTES:
N/A

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

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

2709-D Pan American Fwy, NE Albuquerque, NM 87107 505.344.3777 505.344.4413 FAX 877.PIN.1998 TOLL FREE
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P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Report Summary

Date Received: Jan 5, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
31738GW1	MW-10/701020-01	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW2	MW-14/701020-02	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW3	MW-1/701020-03	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW4	MW-22/701020-04	EPA130.2	TRB	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
31738GW5	MW-21/701020-05	EPA130.2	TRB	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
31738GW6	MW-17/701020-06	EPA130.2	TRB	Main Lab	Ground Water

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		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW7	MW-5/701020-07	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW8	MW-18/701020-08	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW9	MW-20/701020-09	EPA130.2	TRB	Main Lab	Ground Water
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
31738GW10	MW-3/701020-13	EPA130.2	TRB	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
31738WW1	AS Eff/701020-10	EPA130.2	TRB	Main Lab	Waste Water
		EPA160.1	RMV	Main Lab	
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	

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31738WW2	AS Aff/701020-11	EPA130.2	TRB	Main Lab	Waste Water
		EPA160.1	RMV	Main Lab	
		EPA300.0	YGS	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Analysis Report

Lab #: 31738GW1 Sampled: 12/28/06 02:29 PMDesc: MW-10/701020-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	365	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	53.3	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	12.2	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	950	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.00116 I	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0219	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00388	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.000840 I	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	239	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	240	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.11 I	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.846	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	2920	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	1120	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	175 U	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW2 Sampled: 12/28/06 12:00 PMDesc: MW-14/701020-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	450	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	47.7	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	11.8	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	731	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW2 Sampled: 12/28/06 12:00 PM Desc: MW-14/701020-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0148	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00821	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00403	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00190	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	290	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	290	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.879	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	2740	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	1260	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	150 U	mg/L	30.0	150	300	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW3 Sampled: 12/28/06 01:39 PM Desc: MW-1/701020-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	460	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	39.2	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	12.4	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	454	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0417	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00469	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW3 Sampled: 12/28/06 01:39 PM Desc: MW-1/701020-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Silver	0.00198	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	312	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	312	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.937	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	2020	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	1400	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	100 U	mg/L	20.0	100	200	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW4 Sampled: 01/02/07 11:14 AM Desc: MW-22/701020-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	304	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	77.7	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	13.8	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	2430	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Base_Neutral_Extraction	940	mL	1.00			10077276	XBNE		01/09/07
Arsenic	0.00210	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0109	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00821	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.0494	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.0126	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00303	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
TDS	9560	mg/L	1.00	2.50	5.00	10077313	EPA160.1	10-33-3	01/09/07
Bicarbonate Alkalinity	252	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	253	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW4 Sampled: 01/02/07 11:14 AM Desc: MW-22/701020-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.32 I	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.200 U	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	5790	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	090-12-0	01/17/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-57-6	01/17/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	83-32-9	01/17/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	208-96-8	01/17/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	120-12-7	01/17/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	56-55-3	01/17/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	50-32-8	01/17/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	205-99-2	01/17/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	191-24-2	01/17/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	207-08-9	01/17/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	218-01-9	01/17/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	53-70-3	01/17/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	206-44-0	01/17/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	86-73-7	01/17/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	193-39-5	01/17/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-20-3	01/17/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	85-01-8	01/17/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	129-00-0	01/17/07
Surr:2-Fluorobiphenyl (49-140%)	54.10%		1.00	0.0100	0.0200	10077663	EPA8270	321-60-8	01/17/07
Surr:Nitrobenzene-d5 (49-140%)	89.52%		1.00	0.0100	0.400	10077663	EPA8270		01/17/07
Surr:Terphenyl-d14 (49-140%)	87.56%		1.00	0.0100	0.0200	10077663	EPA8270		01/17/07
Total Hardness (as CaCO3)	1200	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	265 I	mg/L	50.0	250	500	10077739	EPA325.2	16887-00-6	01/09/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW5 Sampled: 01/02/07 10:36 AM Desc: MW-21/701020-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	440	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	82.5	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	14.8	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	1700	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Base_Neutral_Extraction	1000	mL	1.00			10077276	XBNE		01/09/07
Arsenic	0.0397	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0161	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00402	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00214	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
TDS	7380	mg/L	1.00	2.50	5.00	10077313	EPA160.1	10-33-3	01/09/07
Bicarbonate Alkalinity	528	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	1.95	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	530	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.410	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	4260	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	090-12-0	01/17/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-57-6	01/17/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	83-32-9	01/17/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	208-96-8	01/17/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	120-12-7	01/17/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	56-55-3	01/17/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	50-32-8	01/17/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	205-99-2	01/17/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	191-24-2	01/17/07

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW5 Sampled: 01/02/07 10:36 AM Desc: MW-21/701020-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	207-08-9	01/17/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	218-01-9	01/17/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	53-70-3	01/17/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	206-44-0	01/17/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	86-73-7	01/17/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	193-39-5	01/17/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-20-3	01/17/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	85-01-8	01/17/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	129-00-0	01/17/07
Surr:2-Fluorobiphenyl (49-140%)	56.36%		1.00	0.0100	0.0200	10077663	EPA8270	321-60-8	01/17/07
Surr:Nitrobenzene-d5 (49-140%)	94.80%		1.00	0.0100	0.400	10077663	EPA8270		01/17/07
Surr:Terphenyl-d14 (49-140%)	66.52%		1.00	0.0100	0.0200	10077663	EPA8270		01/17/07
Total Hardness (as CaCO3)	1400	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	487	mg/L	45.0	225	450	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW6 Sampled: 12/28/06 11:20 AM Desc: MW-17/701020-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	358	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	49.8	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	13.8	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	884	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.00368	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.241	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00584	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00654	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00303 I	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00434	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	599	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07

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Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW6 Sampled: 12/28/06 11:20 AM Desc: MW-17/701020-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Carbonate Alkalinity	1.13	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	600	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.434	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	1120	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	1240	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	1140	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW7 Sampled: 12/28/06 09:39 AM Desc: MW-5/701020-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	91.0	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	26.1	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	8.84	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	1130	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.00401	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.150	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.0128	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00393	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00270	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	590	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	5.22	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	595	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.721	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	1780	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07

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Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW7 **Sampled:** 12/28/06 09:39 AM **Desc:** MW-5/701020-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Hardness (as CaCO3)	360	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	175 U	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW8 **Sampled:** 12/28/06 10:20 AM **Desc:** MW-18/701020-08

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	217	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	89.4	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	11.4	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	1080	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.0918	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0650	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.0108	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00196 I	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00291	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	861	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	7.28	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	868	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.285 I	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	1940	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	360	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	389	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW9 **Sampled:** 12/28/06 03:13 PM **Desc:** MW-20/701020-09

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	435	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW9 Sampled: 12/28/06 03:13 PMDesc: MW-20/701020-09

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Magnesium, Dissolved	59.3	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	12.9	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	748	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Arsenic	0.00170 I	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0297	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.00781	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00228	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
Bicarbonate Alkalinity	804	mg/L	5.00	0.500	1.00	10077318	EPA310.1	E1640226	01/10/07
Carbonate Alkalinity	3.73	mg/L	5.00	0.500	1.00	10077318	EPA310.1	3812-32-6	01/10/07
Total Alkalinity CaCO3	808	mg/L	5.00	0.500	1.00	10077318	EPA310.1	T-005	01/10/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.200 U	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	1980	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
Total Hardness (as CaCO3)	1020	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	175 U	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738GW10 Sampled: 01/02/07 01:32 PMDesc: MW-3/701020-13

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	192	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	33.0	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	9.47	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	577	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Base_Neutral_Extraction	1000	mL	1.00			10077276	XBNE		01/09/07
Arsenic	0.0975	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	3.78	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW10 Sampled: 01/02/07 01:32 PM**Desc:** MW-3/701020-13

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.0164	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00292	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00418	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
TDS	2340	mg/L	1.00	2.50	5.00	10077313	EPA160.1	10-33-3	01/09/07
Bicarbonate Alkalinity	985	mg/L	5.00	0.500	1.00	10077331	EPA310.1	E1640226	01/11/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077331	EPA310.1	3812-32-6	01/11/07
Total Alkalinity CaCO3	985	mg/L	5.00	0.500	1.00	10077331	EPA310.1	T-005	01/11/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.572	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	15.2	mg/L	1.00	1.00	2.00	10077566	EPA300.0	14808-79-8	01/15/07
1-methyl-Naphthalene	30.6	ug/L	1.00	0.200	0.400	10077663	EPA8270	090-12-0	01/17/07
2-methyl-Naphthalene	26.1	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-57-6	01/17/07
Acenaphthene	3.97	ug/L	1.00	0.200	0.400	10077663	EPA8270	83-32-9	01/17/07
Acenaphthylene	2.09	ug/L	1.00	0.200	0.400	10077663	EPA8270	208-96-8	01/17/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	120-12-7	01/17/07
Benzo(a)anthracene	0.650	ug/L	1.00	0.200	0.400	10077663	EPA8270	56-55-3	01/17/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	50-32-8	01/17/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	205-99-2	01/17/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	191-24-2	01/17/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	207-08-9	01/17/07
Chrysene	2.73	ug/L	1.00	0.200	0.400	10077663	EPA8270	218-01-9	01/17/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	53-70-3	01/17/07
Fluoranthene	0.960	ug/L	1.00	0.200	0.400	10077663	EPA8270	206-44-0	01/17/07
Fluorene	16.0	ug/L	1.00	0.200	0.400	10077663	EPA8270	86-73-7	01/17/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	193-39-5	01/17/07
Naphthalene	32.3	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-20-3	01/17/07

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Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738GW10 Sampled: 01/02/07 01:32 PM**Desc:** MW-3/701020-13

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Phenanthrene	5.48	ug/L	1.00	0.200	0.400	10077663	EPA8270	85-01-8	01/17/07
Pyrene	3.85	ug/L	1.00	0.200	0.400	10077663	EPA8270	129-00-0	01/17/07
Surr:2-Fluorobiphenyl (49-140%)	48.40%		1.00	0.0100	0.0200	10077663	EPA8270	321-60-8	01/17/07
Surr:Nitrobenzene-d5 (49-140%)	89.54%		1.00	0.0100	0.400	10077663	EPA8270		01/17/07
Surr:Terphenyl-d14 (49-140%)	33.62%		1.00	0.0100	0.0200	10077663	EPA8270		01/17/07
Total Hardness (as CaCO3)	740	mg/L	1.00	0.0100	0.0200	10077699	EPA130.2	40-11-9	01/15/07
Chloride	589	mg/L	20.0	100	200	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738WW1 Sampled: 01/02/07 12:05 PM**Desc:** AS Eff/701020-10

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	370	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	60.2	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07
Potassium, Dissolved	13.3	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	887	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Base_Neutral_Extraction	1000	mL	1.00			10077276	XBNE		01/09/07
Arsenic	0.00190 I	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0437	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.0153	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00207	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00197	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
TDS	4270	mg/L	1.00	2.50	5.00	10077313	EPA160.1	10-33-3	01/09/07
Bicarbonate Alkalinity	449	mg/L	5.00	0.500	1.00	10077331	EPA310.1	E1640226	01/11/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077331	EPA310.1	3812-32-6	01/11/07
Total Alkalinity CaCO3	449	mg/L	5.00	0.500	1.00	10077331	EPA310.1	T-005	01/11/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.352 I	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07

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Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738WW1 Sampled: 01/02/07 12:05 PMDesc: AS Eff/701020-10

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sulfate	1710	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	090-12-0	01/17/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-57-6	01/17/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	83-32-9	01/17/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	208-96-8	01/17/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	120-12-7	01/17/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	56-55-3	01/17/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	50-32-8	01/17/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	205-99-2	01/17/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	191-24-2	01/17/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	207-08-9	01/17/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	218-01-9	01/17/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	53-70-3	01/17/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	206-44-0	01/17/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	86-73-7	01/17/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	193-39-5	01/17/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-20-3	01/17/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	85-01-8	01/17/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	129-00-0	01/17/07
Surr:2-Fluorobiphenyl (49-140%)	58.22%		1.00	0.0100	0.0200	10077663	EPA8270	321-60-8	01/17/07
Surr:Nitrobenzene-d5 (49-140%)	100.02%		1.00	0.0100	0.400	10077663	EPA8270		01/17/07
Surr:Terphenyl-d14 (49-140%)	67.74%		1.00	0.0100	0.0200	10077663	EPA8270		01/17/07
Total Hardness (as CaCO3)	1220	mg/L	1.00	0.0100	0.0200	10077702	EPA130.2	40-11-9	01/15/07
Chloride	582	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

Lab #: 31738WW2 Sampled: 01/02/07 11:48 AMDesc: AS Aff/701020-11

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium, Dissolved	394	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Magnesium, Dissolved	59.7	mg/L	1.00	0.0100	0.0200	10077148	EPA6010		01/08/07

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Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738WW2 Sampled: 01/02/07 11:48 AMDesc: AS Aff/701020-11

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Potassium, Dissolved	15.1	mg/L	1.00	0.100	0.200	10077148	EPA6010		01/08/07
Sodium, Dissolved	886	mg/L	1.00	0.500	1.00	10077148	EPA6010		01/08/07
Base_Neutral_Extraction	1000	mL	1.00			10077276	XBNE		01/09/07
Arsenic	0.00162 I	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-38-2	01/09/07
Barium	0.0546	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7440-39-3	01/09/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-43-9	01/09/07
Chromium	0.0136	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7440-47-3	01/09/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10077279	EPA6020	7439-92-1	01/09/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10077279	EPA6020	7782-49-2	01/09/07
Silver	0.00202	mg/L	1.00	0.000500	0.00100	10077279	EPA6020	7440-22-4	01/09/07
TDS	4420	mg/L	1.00	2.50	5.00	10077313	EPA160.1	10-33-3	01/09/07
Bicarbonate Alkalinity	617	mg/L	5.00	0.500	1.00	10077331	EPA310.1	E1640226	01/11/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10077331	EPA310.1	3812-32-6	01/11/07
Total Alkalinity CaCO3	617	mg/L	5.00	0.500	1.00	10077331	EPA310.1	T-005	01/11/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10077348	EPA7470	7439-97-6	01/11/07
Bromide	1.00 U	mg/L	1.00	1.00	2.00	10077558	EPA300.0	24959-67-9	01/15/07
Fluoride	0.474	mg/L	1.00	0.200	0.400	10077561	EPA300.0	16984-48-8	01/15/07
Sulfate	1690	mg/L	100	100	200	10077566	EPA300.0	14808-79-8	01/15/07
1-methyl-Naphthalene	9.25	ug/L	1.00	0.200	0.400	10077663	EPA8270	090-12-0	01/17/07
2-methyl-Naphthalene	1.95	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-57-6	01/17/07
Acenaphthene	0.660	ug/L	1.00	0.200	0.400	10077663	EPA8270	83-32-9	01/17/07
Acenaphthylene	0.330 I	ug/L	1.00	0.200	0.400	10077663	EPA8270	208-96-8	01/17/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	120-12-7	01/17/07
Benzo(a)anthracene	0.300 I	ug/L	1.00	0.200	0.400	10077663	EPA8270	56-55-3	01/17/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	50-32-8	01/17/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	205-99-2	01/17/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	191-24-2	01/17/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	207-08-9	01/17/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	218-01-9	01/17/07

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PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Lab #: 31738WW2 Sampled: 01/02/07 11:48 AM **Desc:** AS Aff/701020-11

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	53-70-3	01/17/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	206-44-0	01/17/07
Fluorene	2.46	ug/L	1.00	0.200	0.400	10077663	EPA8270	86-73-7	01/17/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	193-39-5	01/17/07
Naphthalene	3.73	ug/L	1.00	0.200	0.400	10077663	EPA8270	91-20-3	01/17/07
Phenanthrene	1.10	ug/L	1.00	0.200	0.400	10077663	EPA8270	85-01-8	01/17/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077663	EPA8270	129-00-0	01/17/07
Surr:2-Fluorobiphenyl (49-140%)	60.54%		1.00	0.0100	0.0200	10077663	EPA8270	321-60-8	01/17/07
Surr:Nitrobenzene-d5 (49-140%)	69.92%		1.00	0.0100	0.400	10077663	EPA8270		01/17/07
Surr:Terphenyl-d14 (49-140%)	58.28%		1.00	0.0100	0.0200	10077663	EPA8270		01/17/07
Total Hardness (as CaCO3)	1220	mg/L	1.00	0.0100	0.0200	10077702	EPA130.2	40-11-9	01/15/07
Chloride	565	mg/L	35.0	175	350	10077739	EPA325.2	16887-00-6	01/09/07

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Quality Report

Quality Control Batch: 10077148	Analyst: EVB							
Blank	**Result**	**Units**						
Calcium, Dissolved	0.100U	mg/L						
Magnesium, Dissolved	0.0100U	mg/L						
Potassium, Dissolved	0.100U	mg/L						
Sodium, Dissolved	0.500U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Calcium, Dissolved	9.94	mg/L	10.0	99.44	80.00-120.00			
Magnesium, Dissolved	10.2	mg/L	10.0	102.11	80.00-120.00			
Potassium, Dissolved	10.5	mg/L	10.0	104.82	80.00-120.00			
Sodium, Dissolved	9.12	mg/L	10.0	91.20	80.00-120.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Calcium, Dissolved	123	mg/L	5.00	133.58	80.00-120.00	116		
Magnesium, Dissolved	30.7	mg/L	5.00	109.93	80.00-120.00	25.2		
Potassium, Dissolved	14.1	mg/L	5.00	72.76	80.00-120.00	10.5		
Sodium, Dissolved	119	mg/L	5.00	96.82	80.00-120.00	114		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Calcium, Dissolved	120	mg/L	5.00	76.08	80.00-120.00	116	2.37	20.00
Magnesium, Dissolved	29.8	mg/L	5.00	92.15	80.00-120.00	25.2	2.93	20.00
Potassium, Dissolved	15.1	mg/L	5.00	92.39	80.00-120.00	10.5	6.71	20.00
Sodium, Dissolved	117	mg/L	5.00	55.20	80.00-120.00	114	1.76	20.00

Quality Control Batch: 10077279	Analyst: EVB	
Blank	**Result**	**Units**
Arsenic	0.00100U	mg/L

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701020
Client Project #: AES
Date Sampled: Dec 28, 2006
Jan 18, 2007; Invoice: 31738

Quality Control Batch: 10077279 **Analyst:** EVB

Blank	Result	Units
Barium	0.00200U	mg/L
Cadmium	0.00100U	mg/L
Chromium	0.00100U	mg/L
Lead	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Arsenic	0.178	mg/L	0.200	88.76	54.59-138.35
Barium	0.218	mg/L	0.200	108.90	49.14-141.72
Cadmium	0.189	mg/L	0.200	94.51	54.09-138.51
Chromium	0.211	mg/L	0.200	105.59	54.44-138.44
Lead	0.188	mg/L	0.200	94.17	54.23-138.47
Selenium	0.184	mg/L	0.200	91.78	49.22-141.56
Silver	0.194	mg/L	0.200	97.14	49.28-141.44

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Arsenic	0.215	mg/L	0.200	107.04	44.62-152.98	0.00104
Barium	0.318	mg/L	0.200	149.36	47.48-150.38	0.0197
Cadmium	0.216	mg/L	0.200	107.79	44.07-153.09	0.00100U
Chromium	0.221	mg/L	0.200	108.65	44.48-152.96	0.00349
Lead	0.205	mg/L	0.200	102.38	44.31-152.97	0.00100U
Selenium	0.232	mg/L	0.200	116.06	47.50-150.22	0.00200U
Silver	0.213	mg/L	0.200	106.01	47.10-150.18	0.000760

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Arsenic	0.200	mg/L	0.200	99.72	44.62-152.98	0.00104	7.04	22.44
Barium	0.292	mg/L	0.200	136.24	47.48-150.38	0.0197	8.60	20.91
Cadmium	0.200	mg/L	0.200	100.20	44.07-153.09	0.00100U	7.30	22.34

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Client Project #: AES
Date Sampled: Dec 28, 2006
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Quality Control Batch: 10077279 **Analyst: EVB**

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chromium	0.214	mg/L	0.200	105.22	44.48-152.96	0.00349	3.16	22.41
Lead	0.191	mg/L	0.200	95.65	44.31-152.97	0.00100U	6.80	22.37
Selenium	0.202	mg/L	0.200	101.20	47.50-150.22	0.00200U	13.67	20.91
Silver	0.205	mg/L	0.200	102.01	47.10-150.18	0.000760	3.82	20.84

Quality Control Batch: 10077313 **Analyst: RMV**

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1390	mg/L	1500	92.80	55.54-137.56

Quality Control Batch: 10077318 **Analyst: LCC**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	91.8	mg/L	100	91.77	58.94-137.60

Quality Control Batch: 10077331 **Analyst: LCC**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	94.0	mg/L	100	93.97	58.94-137.60

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Quality Control Batch: 10077348	Analyst: EVB							
Blank	**Result**	**Units**						
Mercury	0.000200U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Mercury	0.00525	mg/L	0.00500	105.04	49.60-142.54			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Mercury	0.00497	mg/L	0.00500	99.36	45.84-150.78	0.000200U		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Mercury	0.00525	mg/L	0.00500	105.04	45.84-150.78	0.000200U	5.56	21.59

Quality Control Batch: 10077558	Analyst: YGS							
Blank	**Result**	**Units**						
Bromide	1.00U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Bromide	1.92	mg/L	2.00	95.84	48.71-142.43			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Bromide	2.34	mg/L	2.00	113.41	46.03-150.79	0.0718		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Bromide	2.25	mg/L	2.00	108.71	46.03-150.79	0.0718	4.10	21.22

Quality Control Batch: 10077561	Analyst: YGS				
Blank	**Result**	**Units**			
Fluoride	0.200U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**

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Quality Control Batch: 10077561 **Analyst: YGS**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Fluoride	1.96	mg/L	2.00	98.01	48.98-141.74

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Fluoride	2.20	mg/L	2.00	105.38	47.79-150.15	0.0924

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Fluoride	2.15	mg/L	2.00	103.01	47.79-150.15	0.0924	2.17	20.54

Quality Control Batch: 10077566 **Analyst: YGS**

Blank	Result	Units
Sulfate	1.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	2.15	mg/L	2.00	107.71	42.49-136.21

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	5.70	mg/L	2.00	109.37	27.47-150.89	3.51

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	6.23	mg/L	2.00	135.95	27.47-150.89	3.51	8.91	21.69

Quality Control Batch: 10077663 **Analyst: CLS**

Blank	Result	Units
Acenaphthene	0.200U	ug/L
Acenaphthylene	0.200U	ug/L
Anthracene	0.200U	ug/L
Benzo(a)anthracene	0.200U	ug/L
Benzo(a)pyrene	0.200U	ug/L
Benzo(b)fluoranthene	0.200U	ug/L

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Quality Control Batch: 10077663 **Analyst:** CLS

Blank	Result	Units
Benzo(g,h,i)perylene	0.200U	ug/L
Benzo(k)fluoranthene	0.200U	ug/L
Chrysene	0.200U	ug/L
Dibenz(a,h)anthracene	0.200U	ug/L
Fluoranthene	0.200U	ug/L
Fluorene	0.200U	ug/L
Indeno(1,2,3-cd)pyrene	0.200U	ug/L
Naphthalene	0.200U	ug/L
Phenanthrene	0.200U	ug/L
Pyrene	0.200U	ug/L
1-methyl-Naphthalene	0.200U	ug/L
2-methyl-Naphthalene	0.200U	ug/L
Surr:Nitrobenzene-d5	0.0100U	ug/L
Surr:Terphenyl-d14	0.0100U	ug/L
Surr:2-Fluorobiphenyl	0.0100U	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	38.1	ug/L	50.0	76.10	49.73-140.51
Acenaphthylene	30.8	ug/L	50.0	61.62	49.74-140.52
Anthracene	38.4	ug/L	50.0	76.82	49.74-140.52
Benzo(a)anthracene	47.9	ug/L	50.0	95.84	49.74-140.52
Benzo(a)pyrene	47.9	ug/L	50.0	95.86	49.74-140.52
Benzo(b)fluoranthene	17.4	ug/L	50.0	34.70	49.74-140.52
Benzo(g,h,i)perylene	48.1	ug/L	50.0	96.14	49.74-140.52
Benzo(k)fluoranthene	74.3	ug/L	50.0	148.50	49.74-140.52
Chrysene	55.0	ug/L	50.0	110.02	49.74-140.52
Dibenz(a,h)anthracene	37.5	ug/L	50.0	74.98	49.74-140.52
Fluoranthene	34.0	ug/L	50.0	67.98	49.73-140.51
Fluorene	33.8	ug/L	50.0	67.60	49.73-140.51

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Quality Control Batch: 10077663 **Analyst: CLS**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Indeno(1,2,3-cd)pyrene	44.9	ug/L	50.0	89.70	49.74-140.52
Naphthalene	31.2	ug/L	50.0	62.34	49.74-140.52
Phenanthrene	39.5	ug/L	50.0	79.08	49.73-140.51
Pyrene	49.6	ug/L	50.0	99.16	49.74-140.52
1-methyl-Naphthalene	27.0	ug/L	50.0	53.96	49.74-140.52
2-methyl-Naphthalene	21.9	ug/L	50.0	43.74	49.73-140.51
Surr:Nitrobenzene-d5	57.3	ug/L	50.0	114.60	49.74-140.52
Surr:Terphenyl-d14	51.0	ug/L	50.0	102.04	49.74-140.52
Surr:2-Fluorobiphenyl	32.5	ug/L	50.0	64.96	49.74-140.52

Quality Control Batch: 10077699 **Analyst: TRB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	1000	mg/L	1000	100.00	54.57-138.99

Quality Control Batch: 10077702 **Analyst: TRB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	1000	mg/L	1000	100.00	80.00-120.00

Quality Control Batch: 10077739 **Analyst: JGK**

Blank	Result	Units

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PO #: 701020
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Date Sampled: Dec 28, 2006
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Quality Control Batch: 10077739 **Analyst:** JGK

Blank	Result	Units
Chloride	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	46.9	mg/L	50.0	93.86	58.27-138.07

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Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 1/4/07 Page: 1 of 2

PINNACLE LABORATORIES Network Project Manager: Jacinta Tenorio

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Albuquerque, NM 87107
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Samples may have high concentrations of aromatic hydro-carbons.
Watch Hold Times for 8270SIMS & TDS
Dissolved metals have been filtered & preserved.

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA (Total)	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Dissolved Ca, Mg, K, Na	Total Hardness	Gen Chemistry: Alk+Bicarb+Carb	Br, Cl, F, SO4	TDS	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310/8270 SIMS)	8260 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
MW-10 / 701020-01	12/28/06	1429	GW		X					X	X	X	X										3	1738	GW		1
MW-14 / 701020-02	↓	1200	↓		X					X	X	X	X											↓			2
MW-1 / 701020-03	↓	1339			X					X	X	X	X														3
MW-22 / 701020-04	1/2/07	1114			X					X	X	X	X	X						X							4
MW-21 / 701020-05	11	1036			X					X	X	X	X	X						X							5
MW-17 / 701020-06	12/28/06	1120			X					X	X	X	X														6
MW-5 / 701020-07	↓	0939			X					X	X	X	X														7
MW-18 / 701020-08	↓	1020			X					X	X	X	X														8
MW-20 / 701020-09	↓	1513	↓		X					X	X	X	X														9
Airstripper Effluent / 701020-10	1/2/07	1205	WW		X					X	X	X	X	X						X			3	1738	GW		1

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	
PROJECT #: 701020	Total Number of Containers	PENSACOLA - STL-FL	
PROJ. NAME: AES	Chain of Custody Seals	ESL - OR	
QC LEVEL: (STD) IV	Received Intact?	ATEL - AZ	
QC REQUIRED: MS MSD BLANK	Received Good Cond./Cold	ATEL - MARION	
TAT: (STANDARD) RUSH!!	LAB NUMBER:	ATEL - MELMORE	
		FCL	X
DUE DATE: 1/18	COMMENTS:	EHL	
RUSH SURCHARGE: —		GEL	
CLIENT DISCOUNT:		WCAS	
SPECIAL CERTIFICATION REQUIRED: YES (NO)		WOHL	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Francine Tarino Time: 1700	Signature: Time:
Printed Name: Francine Tarino Date: 1/4/07	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**
Signature: Time:	Signature: Time: 1002
Printed Name: Date:	Printed Name: Date: 1/5/07
Company	Company

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 1/4/07 Page: 2 of 2

Network Project Manager: Jacinta Tenorio

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See notes on previous page.

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA (Total)	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Dissolved Ca, Mg, K, Na	Total Hardness	Gen Chemistry: Alk + Bicarb/Carb	Br, Cl, F, SO4	TDS	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310/8270 SIMS)	8260 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
Airstripper Affluent 701020-11	1/2/07	1148	WW		X					X	X	X	X	X							X							
MW-3 701020-13	"	1332	GW		X					X	X	X	X	X							X							

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT #:	701020	Total Number of Containers	
PROJ. NAME:	AES	Chain of Custody Seals	
QC LEVEL:	(STD.) IV	Received Intact?	
QC REQUIRED:	(STD.) MS MSD BLANK	Received Good Cond./Cold	
TAT:	(STANDARD) RUSH!!	LAB NUMBER:	
DUE DATE:	1/18		
RUSH SURCHARGE:	—		
CLIENT DISCOUNT:	—		
SPECIAL CERTIFICATION REQUIRED: YES	(NO)		

COMMENTS:

SAMPLES SENT TO:	
PENSACOLA - STL-FL	
ESL - OR	
ATEL - AZ	
ATEL - MARION	
ATEL - MELMORE	
FCL	X
EHL	
GEL	
WCAS	
WOHL	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1720	Signature: Time:
Printed Name: Date: 1/4/07	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:
Company	Company

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: _____ PAGE: 1 OF 2

PLI Accession #: 701020

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Nathan Willis

COMPANY: Animas Environmental Services
ADDRESS: 624 E. Comanche
Farmington, NM 87401
PHONE: (505) 564-2281
FAX: (505) 324-2022

BILL TO: Bio Tech
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	8021/8015 (BTEX/MTBE, GRO) (M8015) Gas/Purge & Trap	8021 (BTEX/MTBE) (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	Alk, Cr, Br, Cl, F, SO4, TDS	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Baseneutral/Acid Compounds (8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8) & Hardness	RCRA Metals by TCLP (Method1311)	Metals:	NUMBER OF CONTAINERS
MW-10	12/28/06	1429	H_2O	01		X	X								X								X	X			X			9
MW-14	12/28/06	1200	H_2O	02		X	X								X								X	X			X			9
MW-1	12/28/06	1539	H_2O	03		X	X								X								X	X			X			9
MW-22	01/02/07	1114	H_2O	04		X	X								X								X	X			X			9
MW-21	01/02/07	1036	H_2O	05		X	X								X								X	X			X			9
MW-17	12/28/06	1120	H_2O	06		X	X								X								X	X			X			9
MW-5	12/28/06	0939	H_2O	07		X	X								X								X	X			X			9
~~MW-2~~ Allan						X	X								X								X	X			X			7
MW-18	12/28/06	1020	H_2O	08		X	X								X								X	X			X			9
MW-20	12/28/06	1513	H_2O	09		X	X								X								X	X			X			9

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

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: 8/0 Refinery
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	8/
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	Yes
BLUE ICE/ICE	4.3 C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS: MW-1 and MW-5 each had an 8270-Sims 1L amber that froze and lid broke. DRK 01-04-07

Per client cancel 8270 SIMS for samples collected on 12/28/06. Client will re-collect 8270 SIMS & TDS. TDS was cancelled for samples collected on 12/28/06. * 1,4dox

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1500	Signature: Time:
Printed Name: Date: Russ Lawrence 1-3-07	Printed Name: Date:
Company:	Company:
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: David Kidd Time: 1015
Printed Name: Date:	Printed Name: David Kidd Date: 01-04-07
Company:	Pinnacle Laboratories Inc.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: _____ PAGE: 2 OF 2

PLI Accession # 701020

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PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Nathan Willis

COMPANY: Animas Environmental Services
ADDRESS: 624 E. Comanche
Farmington, NM 87401
PHONE: (505) 564-3281
FAX: (505) 324-2022
BILL TO: BioTech
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	8021/8015/BTEX/MTBE, GRO (M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	Alk Gr, Br, Cl, F, SO4, TDS	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8) + Hardness	RCRA Metals by TCLP (Method1311)	Metals:	NUMBER OF CONTAINERS
~~RW-26~~		NW				X	X								X								X	X	Dissolved (Ca, Mg, K, Na)			X		9
~~RW-24~~		NW				X	X								X								X	X				X		9
~~MW-29~~		NW				X	X								X								X	X				X		9
~~MW-12~~		NW				X	X								X								X	X				X		9
~~MW-3~~ OR		NW	01/02/07	1532	H_2O		X								X								X	X				X		9
Airstripper Effluent	01/02/07		1205	H_2O	10	X	X								X								X	X				X		9
Airstripper Affluent	01/02/07		1148	H_2O	11	X	X								X								X	X				X		9
Trip Blank	12/14/06		1315	H_2O	12		X																							2
MW-3	01/02/07		1332	H_2O	13	X	X								X								X	X				X	01-04 BLK	8

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

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: BIO Refinery
P.O. NO.:
SHIPPED VIA:

SAMPLE RECEIPT

NO CONTAINERS	28
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	YES
BLUE ICE/ICE	4.3°

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: _____ Time: 1500
Printed Name: Russ Kanome Date: 1-3-07
Company:
See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: _____ Time:
Printed Name: _____ Date:
Company:

RELINQUISHED BY: 2.

Signature: _____ Time:
Printed Name: _____ Date:
Company:

RECEIVED BY: (LAB) 2.

Signature: David Kidd Time: 1015
Printed Name: David Kidd Date: 01-04-07
Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

PL I.D. **701086**

January 26, 2007

Bio Tech Remediation
501 Airport Drive, Ste. 104
Farmington, NM 87401

Project Name/Number: THRIFTWAY #810 REFINERY NONE

Attention: Mike Beauparlant/Ross Kennemer

On **01/12/07**, Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

All samples were analyzed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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

H. Mitchell Rubenstein, Ph.D.
General Manager

MR:jt

Enclosure

2709-D Pan American Fwy, NE Albuquerque, NM 87107 505.344.3777 505.344.4413 FAX 877.PIN 1998 TOLL FREE
www.pinnaclelabs.org www.pinnaclelabsonline.com

PINNACLE LABS
Environmental Testing

CLIENT	: ANIMAS	DATE RECEIVED	: 01/12/07
PROJECT #	: NONE		
PROJECT NAME	: THRIFTWAY #810 REFINERY	REPORT DATE	: 01/26/07

PL ID: 701086

	PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	701086-01	MW-10	AQUEOUS	01/10/07
02	701086-02	MW-14	AQUEOUS	01/10/07
03	701086-03	MW-1	AQUEOUS	01/10/07
04	701086-04	MW-17	AQUEOUS	01/10/07
05	701086-05	MW-5	AQUEOUS	01/10/07
06	701086-06	MW-18	AQUEOUS	01/10/07
07	701086-07	MW-20	AQUEOUS	01/10/07

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	7

2709-D Pan American Fwy, NE Albuquerque, NM 87107 505.344.3777 505.344.4413 FAX 877.PIN.1998 TOLL FREE
www.pinnaclelabs.org www.pinnaclelabsonline.com

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407-339-5984 Fax 407-260-6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772-343-8006 Fax 772-343-8089
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Report Summary

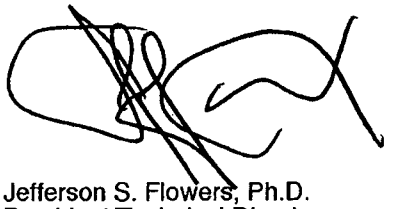
Date Received: Jan 13, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
32186GW1	MW-10/701086-01	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW2	MW-14/701086-02	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW3	MW-1/701086-03	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW4	MW-17/701086-04	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW5	MW-5/701086-05	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW6	MW-18/701086-06	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	
32186GW7	MW-20/701086-07	EPA160.1	RMV	Main Lab	Ground Water
		EPA8270	CLS	Main Lab	
		XBNE	CDG	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Analysis Report

Lab #: 32186GW1 Sampled: 01/10/07 12:47 PMDesc: MW-10/701086-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	4270	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	44.64%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	64.28%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	68.14%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW2 Sampled: 01/10/07 12:11 PMDesc: MW-14/701086-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	4300	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW2 Sampled: 01/10/07 12:11 PMDesc: MW-14/701086-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.930	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.380 I	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.510	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	36.64%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	59.42%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	69.66%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW3 Sampled: 01/10/07 12:28 PMDesc: MW-1/701086-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	3360	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW3 Sampled: 01/10/07 12:28 PM Desc: MW-1/701086-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	42.72%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	59.02%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	66.20%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW4 Sampled: 01/10/07 11:48 AM Desc: MW-17/701086-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	3750	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	16.6	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	8.57	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.430	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.350 I	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW4 Sampled: 01/10/07 11:48 AM Desc: MW-17/701086-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	3.45	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	16.5	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	1.97	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	45.64%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	67.06%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	44.72%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW5 Sampled: 01/10/07 11:15 AM Desc: MW-5/701086-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	4030	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW5 Sampled: 01/10/07 11:15 AM Desc: MW-5/701086-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	44.32%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	60.32%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	49.10%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW6 Sampled: 01/10/07 11:28 AM Desc: MW-18/701086-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	4310	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.920	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07

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Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW6 Sampled: 01/10/07 11:28 AM Desc: MW-18/701086-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.590	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.450	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	58.28%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	95.38%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	59.10%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

Lab #: 32186GW7 Sampled: 01/10/07 01:03 PM Desc: MW-20/701086-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	4270	mg/L	1.00	2.50	5.00	10077657	EPA160.1	10-33-3	01/16/07
Base_Neutral_Extraction	1000	mL	1.00			10077670	XBNE		01/16/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	090-12-0	01/19/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-57-6	01/19/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	83-32-9	01/19/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	208-96-8	01/19/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	120-12-7	01/19/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	56-55-3	01/19/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	50-32-8	01/19/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	205-99-2	01/19/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	191-24-2	01/19/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	207-08-9	01/19/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	218-01-9	01/19/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	53-70-3	01/19/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	206-44-0	01/19/07
Fluorene	0.760	ug/L	1.00	0.200	0.400	10077842	EPA8270	86-73-7	01/19/07

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Lab #: 32186GW7 Sampled: 01/10/07 01:03 PM **Desc:** MW-20/701086-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	193-39-5	01/19/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	91-20-3	01/19/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	85-01-8	01/19/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10077842	EPA8270	129-00-0	01/19/07
Surr:2-Fluorobiphenyl (72-215%)	41.58%		1.00	0.0100	0.0200	10077842	EPA8270	321-60-8	01/19/07
Surr:Nitrobenzene-d5 (81-239%)	58.56%		1.00	0.0100	0.400	10077842	EPA8270		01/19/07
Surr:Terphenyl-d14 (75-222%)	60.38%		1.00	0.0100	0.0200	10077842	EPA8270		01/19/07

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Quality Report

Quality Control Batch: 10077657	Analyst: RMV				
Blank	**Result**	**Units**			
TDS	2.50U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
TDS	1390	mg/L	1500	92.93	54.32-138.56

Quality Control Batch: 10077842	Analyst: CLS	
Blank	**Result**	**Units**
Acenaphthene	0.200U	ug/L
Acenaphthylene	0.200U	ug/L
Anthracene	0.200U	ug/L
Benzo(a)anthracene	0.200U	ug/L
Benzo(a)pyrene	0.200U	ug/L
Benzo(b)fluoranthene	0.200U	ug/L
Benzo(g,h,i)perylene	0.200U	ug/L
Benzo(k)fluoranthene	0.200U	ug/L
Chrysene	0.200U	ug/L
Dibenz(a,h)anthracene	0.200U	ug/L
Fluoranthene	0.200U	ug/L
Fluorene	0.200U	ug/L
Indeno(1,2,3-cd)pyrene	0.200U	ug/L
Naphthalene	0.200U	ug/L
Phenanthrene	0.200U	ug/L
Pyrene	0.200U	ug/L
1-methyl-Naphthalene	0.200U	ug/L
2-methyl-Naphthalene	0.200U	ug/L

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PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Quality Control Batch: 10077842 **Analyst:** CLS

Blank	Result	Units
Surr:Nitrobenzene-d5	27.2	ug/L
Surr:Terphenyl-d14	46.9	ug/L
Surr:2-Fluorobiphenyl	17.4	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	40.7	ug/L	50.0	81.44	49.73-140.51
Acenaphthylene	31.1	ug/L	50.0	62.24	49.74-140.52
Anthracene	40.3	ug/L	50.0	80.68	49.74-140.52
Benzo(a)anthracene	52.7	ug/L	50.0	105.40	49.74-140.52
Benzo(a)pyrene	51.7	ug/L	50.0	103.40	49.74-140.52
Benzo(b)fluoranthene	12.3	ug/L	50.0	24.50	49.74-140.52
Benzo(g,h,i)perylene	50.1	ug/L	50.0	100.14	49.74-140.52
Benzo(k)fluoranthene	62.3	ug/L	50.0	124.58	49.74-140.52
Chrysene	56.1	ug/L	50.0	112.10	49.74-140.52
Dibenz(a,h)anthracene	42.2	ug/L	50.0	84.38	49.74-140.52
Fluoranthene	32.6	ug/L	50.0	65.26	49.73-140.51
Fluorene	36.0	ug/L	50.0	71.92	49.73-140.51
Indeno(1,2,3-cd)pyrene	49.9	ug/L	50.0	99.86	49.74-140.52
Naphthalene	32.0	ug/L	50.0	64.06	49.74-140.52
Phenanthrene	45.0	ug/L	50.0	89.94	49.73-140.51
Pyrene	51.8	ug/L	50.0	103.50	49.74-140.52
1-methyl-Naphthalene	28.0	ug/L	50.0	56.00	49.74-140.52
2-methyl-Naphthalene	22.8	ug/L	50.0	45.54	49.73-140.51
Surr:Nitrobenzene-d5	48.3	ug/L	50.0	96.58	49.74-140.52
Surr:Terphenyl-d14	49.0	ug/L	50.0	98.04	49.74-140.52
Surr:2-Fluorobiphenyl	31.3	ug/L	50.0	62.66	49.74-140.52

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acenaphthene	34.8	ug/L	50.0	69.60	50.53-149.47	0.200U

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Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Quality Control Batch: 10077842 **Analyst:** CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acenaphthylene	29.1	ug/L	50.0	58.18	50.53-149.47	0.200U
Anthracene	38.5	ug/L	50.0	76.90	50.53-149.47	0.200U
Benzo(a)anthracene	42.3	ug/L	50.0	84.60	50.53-149.47	0.200U
Benzo(a)pyrene	39.0	ug/L	50.0	77.90	50.53-149.47	0.200U
Benzo(b)fluoranthene	19.3	ug/L	50.0	38.56	50.53-149.47	0.200U
Benzo(g,h,i)perylene	33.7	ug/L	50.0	67.32	50.53-149.47	0.200U
Benzo(k)fluoranthene	48.0	ug/L	50.0	96.00	50.53-149.47	0.200U
Chrysene	46.1	ug/L	50.0	92.18	50.53-149.47	0.200U
Dibenz(a,h)anthracene	31.5	ug/L	50.0	62.98	50.53-149.47	0.200U
Fluoranthene	34.3	ug/L	50.0	68.68	50.53-149.47	0.200U
Fluorene	34.6	ug/L	50.0	69.22	50.53-149.47	0.200U
Indeno(1,2,3-cd)pyrene	34.6	ug/L	50.0	69.28	50.53-149.47	0.200U
Naphthalene	27.2	ug/L	50.0	54.30	50.53-149.47	0.200U
Phenanthrene	42.5	ug/L	50.0	85.02	50.53-149.47	0.200U
Pyrene	44.3	ug/L	50.0	88.50	50.53-149.47	0.200U
1-methyl-Naphthalene	22.1	ug/L	50.0	44.12	50.53-149.47	0.200U
2-methyl-Naphthalene	16.6	ug/L	50.0	33.16	50.53-149.47	0.200U
Surr:Nitrobenzene-d5	33.6	ug/L	50.0	67.28	50.53-149.47	
Surr:Terphenyl-d14	32.2	ug/L	50.0	64.38	50.53-149.47	
Surr:2-Fluorobiphenyl	24.4	ug/L	50.0	48.82	50.53-149.47	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acenaphthene	31.5	ug/L	50.0	62.90	50.53-149.47	0.200U	10.11	19.60
Acenaphthylene	27.0	ug/L	50.0	53.94	50.53-149.47	0.200U	7.56	19.61
Anthracene	36.7	ug/L	50.0	73.46	50.53-149.47	0.200U	4.58	19.60
Benzo(a)anthracene	37.0	ug/L	50.0	74.04	50.53-149.47	0.200U	13.31	19.61
Benzo(a)pyrene	31.7	ug/L	50.0	63.48	50.53-149.47	0.200U	20.40	19.60
Benzo(b)fluoranthene	22.9	ug/L	50.0	45.80	50.53-149.47	0.200U	17.16	19.61
Benzo(g,h,i)perylene	26.4	ug/L	50.0	52.88	50.53-149.47	0.200U	24.03	19.61

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701086
Client Project #: ANIMAS
Date Sampled: Jan 10, 2007
Jan 22, 2007; Invoice: 32186

Quality Control Batch: 10077842 **Analyst:** CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Benzo(k)fluoranthene	36.6	ug/L	50.0	73.26	50.53-149.47	0.200U	26.87	19.60
Chrysene	39.9	ug/L	50.0	79.80	50.53-149.47	0.200U	14.40	19.60
Dibenz(a,h)anthracene	25.8	ug/L	50.0	51.68	50.53-149.47	0.200U	19.71	19.61
Fluoranthene	34.1	ug/L	50.0	68.28	50.53-149.47	0.200U	0.58	19.60
Fluorene	32.9	ug/L	50.0	65.70	50.53-149.47	0.200U	5.22	19.60
Indeno(1,2,3-cd)pyrene	27.8	ug/L	50.0	55.68	50.53-149.47	0.200U	21.77	19.60
Naphthalene	26.0	ug/L	50.0	52.02	50.53-149.47	0.200U	4.29	19.61
Phenanthrene	40.3	ug/L	50.0	80.68	50.53-149.47	0.200U	5.24	19.60
Pyrene	40.4	ug/L	50.0	80.82	50.53-149.47	0.200U	9.07	19.61
1-methyl-Naphthalene	21.0	ug/L	50.0	42.06	50.53-149.47	0.200U	4.78	19.61
2-methyl-Naphthalene	15.4	ug/L	50.0	30.88	50.53-149.47	0.200U	7.12	19.60
Surr:Nitrobenzene-d5	31.0	ug/L	50.0	61.90	50.53-149.47		8.33	19.61
Surr:Terphenyl-d14	26.8	ug/L	50.0	53.66	50.53-149.47		18.16	19.61
Surr:2-Fluorobiphenyl	21.7	ug/L	50.0	43.46	50.53-149.47		11.62	19.61

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2709 D Pan American Freeway NE
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PO #: 701086
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Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 1/12/07 Page: 1 of 1

Network Project Manager: Jatinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

WATCH HOLD TIME!!!

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)		TOC	Gen Chemistry:			Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310) 8270 SIMS	8260 (TCLP 1311) ZHE	TDS	Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
MW-10/701086-01	1/10/07	1247	GW	32186	GW1															X		X						
MW-14/701086-02	↓	1211	↓	↓	GW2															X		X						
MW-1/701086-03		1228			GW3															X		X						
MW-17/701086-04		1148			GW4															X		X						
MW-5/701086-05		1115			GW5															X		X						
MW-18/701086-06		1128			GW6															X		X						
MW-22/701086-07		1303			GW7															X		X						

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #:	701086	Total Number of Containers		PENSACOLA - STL-FL		Signature: Time: 1200	Signature: Time:
PROJ. NAME:	ANIMAS	Chain of Custody Seals		ESL - OR		Printed Name: Date: Greg M. Sentes 1/12/07	Printed Name: Date:
QC LEVEL:	(STD) IV	Received Intact?		ATEL - AZ		Pinnacle Laboratories, Inc.	Company
QC REQUIRED:	(MS) MSD BLANK	Received Good Cond./Cold		ATEL - MARION		RECEIVED BY: 1.	RECEIVED BY: 2.
TAT:	(STANDARD) RUSH!!	LAB NUMBER:		ATEL - MELMORE		Signature: Time:	Signature: Time:
DUE DATE:	1/26/07	COMMENTS:	1°C	FCL	X	Printed Name: Date:	Printed Name: Date: Dawn Flowers 1/12/07
RUSH SURCHARGE:	—			EHL		Company	Company
CLIENT DISCOUNT:	—			GEL			
SPECIAL CERTIFICATION REQUIRED: YES (NO)				WCAS			
				WOHL			

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 1-10-07 PAGE: 1 OF 1

PLI Accession #: 701086

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:	Ross Kennemer
COMPANY:	Animas Environmental
ADDRESS:	624 E Comanche
	Farmington, NM, 87401
PHONE:	564-2281
FAX:	324-2022
BILL TO:	BioTech
COMPANY:	
ADDRESS:	

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D
MW-10	1-10-07	1247	H20	01
MW-14	1-10-07	1211	H20	02
MW-1	1-10-7	1228	H20	03
MW-17	1-10-7	1148	H20	04
MW-5	1-10-07	1115	H20	05
MW-18	1-10-07	1128	H20	06
MW-20	1-10-7	1305 1148	H20	07

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310 8270-SIMS)	General Chemistry:	FPS	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
MW-10																		X	X								3
MW-14																		X	X								3
MW-1																		X	X								3
MW-17																		X	X								3
MW-5																		X	X								3
MW-18																		X	X								3
MW-20																		X	Y								3

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

PROJECT INFORMATION	
PROJ. NO.:	
PROJ. NAME:	Thriftway #810 Refinery
P.O. NO.:	
SHIPPED VIA:	

SAMPLE RECEIPT	
NO CONTAINERS	27
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	2.3°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒

*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ | METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1613	Signature: Time:
Printed Name: Date: 1-10-07	Printed Name: Date:
Company: BioTech	Company:
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 1613	Signature: Time: 1033
Printed Name: Date: Jim Cobern 1/10/7	Printed Name: Date: Greg M. Sexton 1/10/07
Company: AES	Pinnacle Laboratories Inc.

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