

AP - 012

STAGE 1 & 2 REPORTS

DATE:

Oct. 2005



**PLAINS
PIPELINE**

October 6, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline Soil Closure Request
TNM 98-05B
EMS No.: TNM 98-05B
Section 26, T21S, R37E
Lea County, New Mexico

AP-12

Dear Mr. Martin:

Please find attached for your approval the Soil Closure Request for the TNM 98-05B release site located in Section 26, T21S, and R37E in Lea County, New Mexico. The Soil Closure Request details activities conducted for soil remediation at the site.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

Cc: Larry Johnson, NMOCD, Hobbs Office

Enclosure

SOIL CLOSURE REQUEST

TNM 98-05B

Section 26, Township 21 South, Range 37 East

Lea County, New Mexico

Plains EMS Number: TNM-98-05

Prepared For:

Plains Marketing, L.P.

333 Clay Street, Suite 1600

Houston, Texas 77002



Prepared By:

NOVA Safety and Environmental

2057 Commerce

Midland, Texas 79703

October 2005


Curt D. Stanley
Project Manager


Todd K. Choban
Vice President, Technical Services

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1.0 INTRODUCTION

NOVA Safety and Environmental (NOVA) is pleased to submit this Soil Closure Report for the TNM 98-05B (also known as TNM 98-05) crude oil release site. The site, formerly the responsibility of Enron Oil Trading and Transportation (EOTT) and Link Energy, is now the responsibility of Plains Marketing, L.P. (Plains).

The site is located approximately two miles northeast of the town of Eunice, New Mexico in Section 26, Township 21 South, Range 37 East (Figure 1). The release occurred on February 4, 1998. An estimated 49 barrels of crude oil was released from a Texas-New Mexico (TNM) 6 inch diameter steel pipeline, of which approximately three barrels were recovered during the emergency response activities. The release was attributed to external corrosion of the pipeline.

Recent site activities at the TNM-98-05B site were proposed by Plains in the Site Restoration Work plan and Proposed Closure Strategy Report dated February 2005. This work plan was approved by NMOCD in a letter dated April 6, 2005.

2.0 SUMMARY OF RECENT ACTIVITIES

2.1 Excavation and Sampling Activities

On May 19-20, 2005, two backhoes were utilized to excavate additional impacted soil, previously identified through analysis, from the North wall, South wall and floor of the existing excavation. A site map is included as Figure 2. Approximately 350 cubic yards (cy) of overburden and hydrocarbon impacted soil was removed from the walls and floor of the excavation. The soil was segregated into hydrocarbon impacted and non impacted stockpiles for future blending and backfilling of the excavation. The determination of impacted versus non impacted soils was made through visual and olfactory means, as well as a Photo-Ionization Device (PID). Upon completion of the excavation, four discreet samples were collected from each quadrant of the excavation floor, two discreet samples were collected from the North wall and three samples were collected from the South wall of the excavation. The samples were delivered to TraceAnalysis of Lubbock, TX for determination of benzene, toluene, ethylbenzene and xylene (BTEX), using EPA method 8021b and for total petroleum hydrocarbons (TPH) using EPA method modified 8015M (DRO/GRO). The analytical results of the May 20, 2005 sampling event are shown in Table 1; the laboratory reports are included in Appendix A. The analytical results indicated that all collected samples were below the NMOCD regulatory threshold for BTEX and TPH, with the exception of the sample collected from the northeast floor quadrant, which exhibited a TPH concentration of 902 mg/Kg.

On June 1, 2005, additional impacted soil was excavated from the northeast floor quadrant and stockpiled for future blending and excavation backfill. On June 1, 2005, having completed the additional excavation, a discreet sample was collected from the newly excavated area and delivered to TraceAnalysis for BTEX and TPH determination, using the analytical methods previously used. The analytical results indicated the northeast quadrant sample was below the NMOCD threshold for all constituents of BTEX and TPH.

Analytical results in all areas of the excavation, except for a small quantity of hydrocarbon stained soil surrounding monitor well MW-1, confirmed the absence of hydrocarbon impact in the soil at the TNM-98-05B site. Ms. Camille Reynolds of Plains contacted Mr. Ed Martin of the NMOCD office in Santa Fe concerning the small quantity of stained soil surrounding Monitor well MW-1. Ms. Reynolds requested that these soils be allowed to remain in place, believing that the removal of the soil could jeopardize the integrity of the monitor well, which is adjacent to the leak source. Mr. Ed Martin of the NMOCD approved Ms. Reynolds request in an email dated May 23, 2005. Figure 3 illustrates the various stages of excavation within the site, as well as samples locations.

On June 20-22, 2005, heavy equipment was mobilized to backfill the excavation using stockpiled soil at the site. The soil stockpiled during September 2001 excavation activities were placed in the bottom of the excavation, as requested by the NMOCD in the approval letter dated April 6, 2005. These stockpiled soils were sampled on November 26, 2004 and analysis indicated BTEX and TPH concentrations were below NMOCD regulatory guidelines. Analytical results and laboratory reports were included in the Site Restoration Work plan and Proposed Closure Strategy Report dated February 2005. Impacted soils excavated during the May and June 2005 excavation activities were blended with overburden located on site and placed in the excavation, on top of the acceptable backfill soil. The surface of the excavation was then contoured to match the topographic grade.

On July 5, 2005, the backfilled excavation was sampled for BTEX using EPA 8021b, and TPH using EPA method 8015 modified DRO/GRO. In addition, at the request of the NMOCD Hobbs Office, samples were also collected for Chloride analysis. Discreet samples (labeled NE-1, SE-1, SW-1, NW-1) were collected in each quadrant of the surface layer of the former excavation. Samples were delivered to TraceAnalysis in Lubbock, Texas and analyzed for BTEX and TPH using methods described above. The analytical results indicate BTEX levels were below the New Mexico regulatory threshold and TPH concentrations were above the regulatory levels, with regard to the DRO parameter ranging from 281 to 492 mg/Kg. Analysis for Chlorides indicated levels ranging from 10.8 to 11.8 mg/Kg. Figure 4 illustrates the backfilled excavation and confirmation surface sample locations.

On August 5, 2005, Microblaze was applied to the soil filling the former excavation, as well as the surrounding soil. During the following weeks southeast New Mexico received adequate rain, ensuring soil moisture and the viability of the microbes. On August 23, 2005 the backfilled excavation was tilled by NOVA employees.

On September 7, 2005 the surface layer of the former excavation was resampled utilizing the same sampling methodology used during the July 5, 2005 soil sampling event. Samples were delivered to TraceAnalysis in Lubbock, Texas and analyzed for TPH using methods described above. The analytical results indicate total TPH concentrations below the regulatory levels, ranging from <50 to 74.7 mg/Kg. Figure 4 illustrates the confirmation surface sample locations.

In summary, the analytical results indicate the stockpiled soil utilized as excavation backfill at the TNM-98-05B site, is below the New Mexico regulatory guideline of 100 mg/Kg TPH. The analytical results further indicate soil currently contained in the sidewalls and floor of the excavation is below the New Mexico regulatory threshold stated above. Plains, having

successfully remediated the soil issues at the TNM-98-05B site, as set forth by The Guidelines for Remediation of Leaks, Spills and Releases, (NMOCD, 1993) is requesting soil closure.

2.2 Monitor Well Plugging and Abandonment

On July 5, 2005, Five (5) monitor wells (MW-6 through 10) were plugged and abandoned at the TNM-98-05B site. Please refer to the NMOCD letters to Ms. Camille Reynolds of Plains Marketing dated April 6, 2005 and June 21, 2005 concerning the disposition of these monitor wells.

The monitor wells were plugged and abandoned by Environmental Plus, Inc. of Eunice, New Mexico, a licensed water well driller in the State of New Mexico. The monitor wells were plugged utilizing guidelines set forth by the office of the New Mexico State Engineer.

Attempts to remove the two-inch polyvinyl chloride (PVC) casing from monitor wells MW-6, MW-7, MW-8, MW-9 and MW-10 were unsuccessful. The casing was removed from the ground surface to a depth of approximately eighteen (18) inches below ground surface.

The five monitor wells were each filled with appropriately hydrated bentonite hole plug to total depth of approximately 65 feet. Topsoil was placed above the plug to complete the procedure.

The former monitor well locations are as follows:

- MW-6, 32 degrees, 27' 03.80" N, 103 degrees, 08' 31.49" W
- MW-7, 32 degrees, 27' 03.63" N, 103 degrees, 08' 32.10" W
- MW-8, 32 degrees, 27' 04.16" N, 103 degrees, 08' 32.38" W
- MW-9, 32 degrees, 27' 05.20" N, 103 degrees, 08' 31.80" W
- MW-10, 32 degrees, 27' 04.93" N, 103 degrees, 08' 30.24" W

3.0 SITE CLOSURE REQUEST

Plains respectfully requests the NMOCD consider this site for soil closure. A groundwater closure request will follow after eight successive quarterly groundwater sampling events have demonstrated that hydrocarbon concentrations are below regulatory guidelines.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were obtained utilizing single-use, disposable, latex gloves. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace analysis using a photo ionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to TraceAnalysis, in Lubbock, Texas for BTEX and TPH analyses using the methods described below. All samples were analyzed within approved holding times following the collection date.

- BTEX concentrations in accordance with EPA Method 8021B/5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO;

Results of laboratory analysis of the soil samples are summarized in Table 1, and the laboratory reports are provided as Appendix A.

4.2 DECONTAMINATION OF EQUIPMENT

Soil sampling tools such as small hand shovels were washed with Liqui-Nox[®] detergent and rinsed with distilled water between the collection of soil samples.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA Safety and Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, L.P.. The information contained in this report, including all exhibits and attachments, may not be used by any other

party without the express consent of NOVA Safety and Environmental and/or Plains Marketing, L.P.

DISTRIBUTION

Copy 1 to: Ed Martin
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

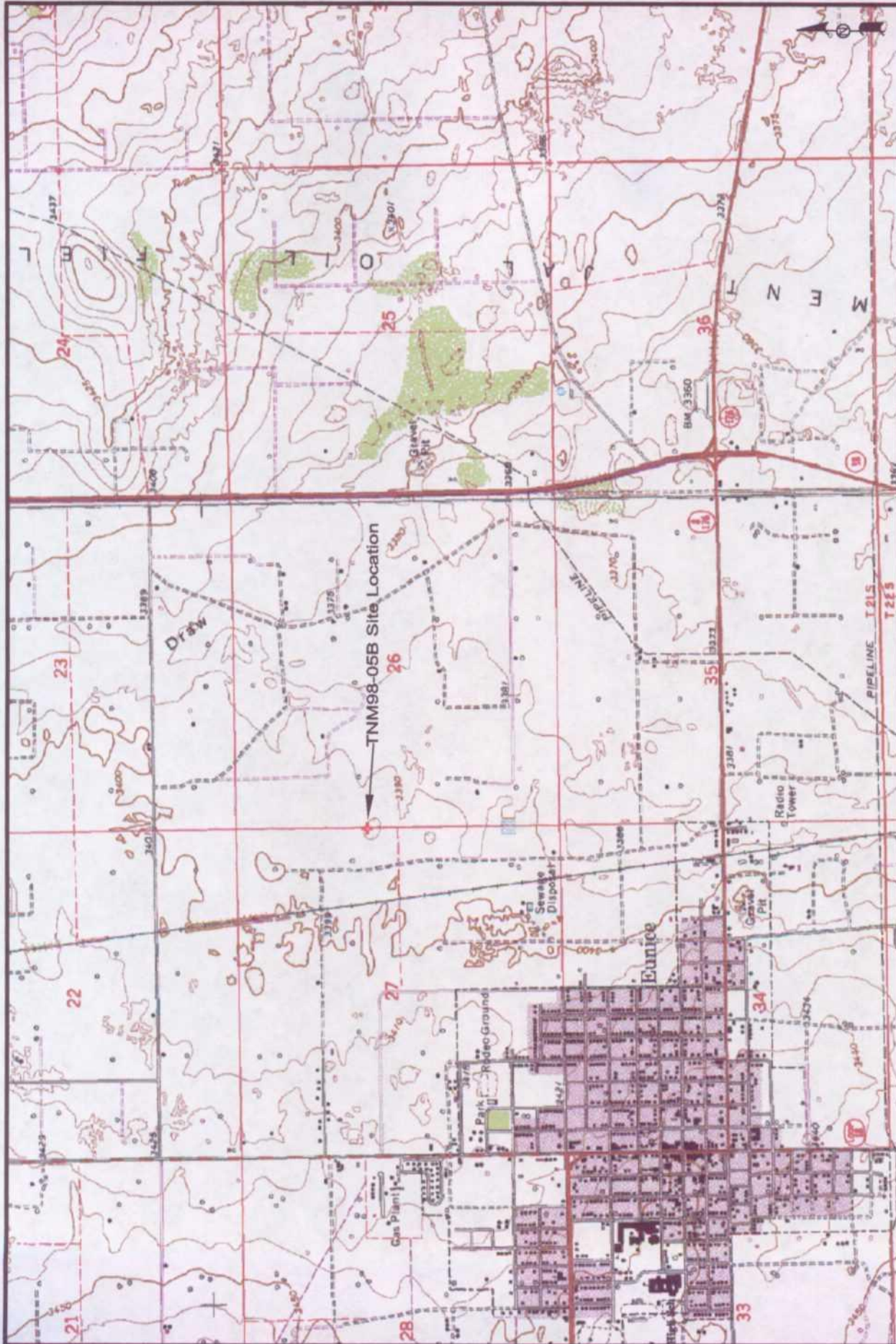
Copy 2 to: Paul Sheeley and Larry Johnson
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Copy 3 to: Camille Reynolds
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2057 Commerce
Midland, Texas 79703
cstanley@novatraining.cc

Figures



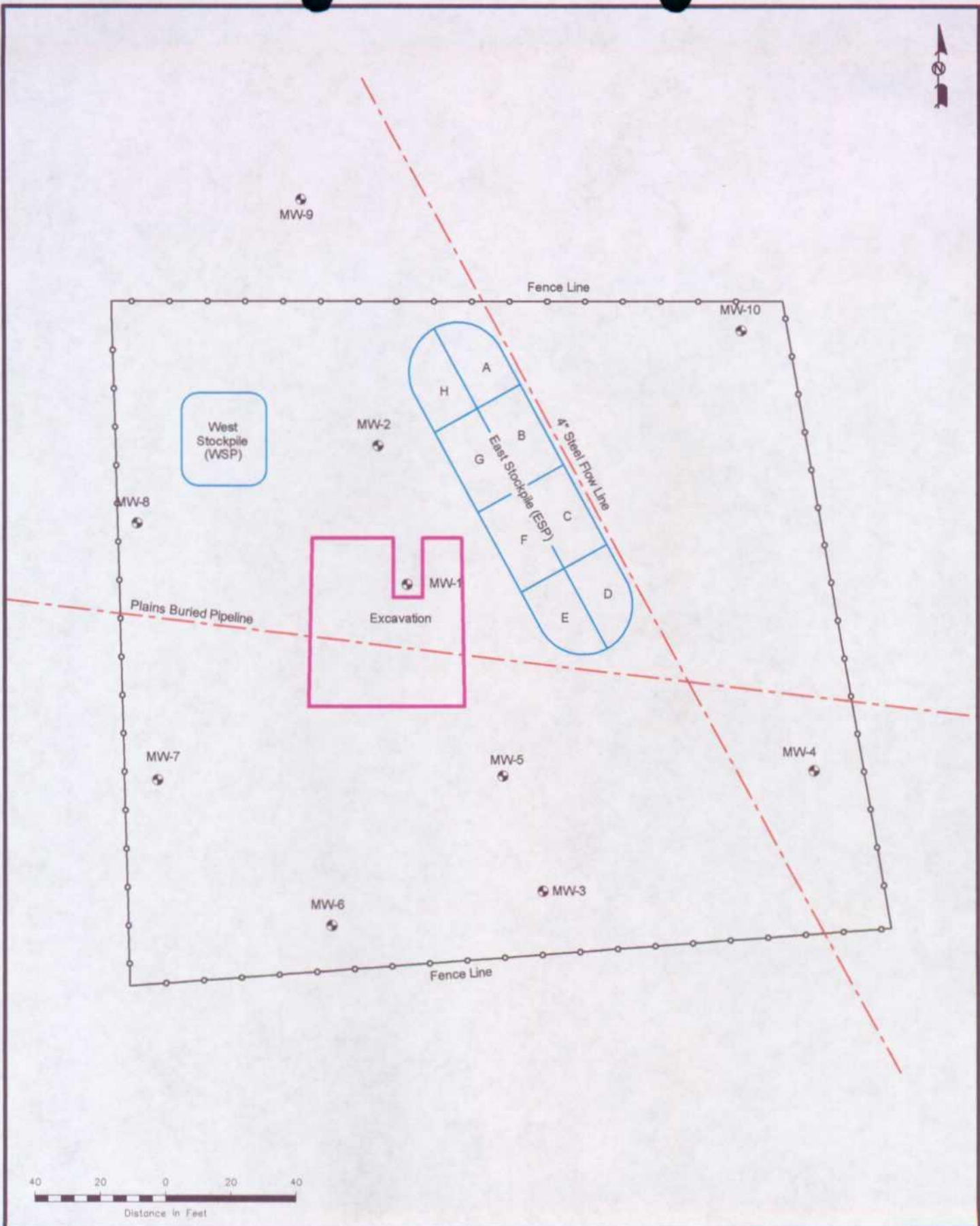
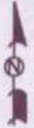
NE 1/4, NW 1/4, Sec. 26, T21S, R37E
 32° 27' 03.8" N, 103° 08' 30.3" W

Figure 1
 Site Location Map
 Plains Marketing, L.P.
 TNM98-05B
 Lea County, NM

NOVA Safety and Environmental



Scale: NTS	Prep By: CDE	Checked By: TWC
December 21, 2004		



Legend:

- Monitor Well Location
- Fence

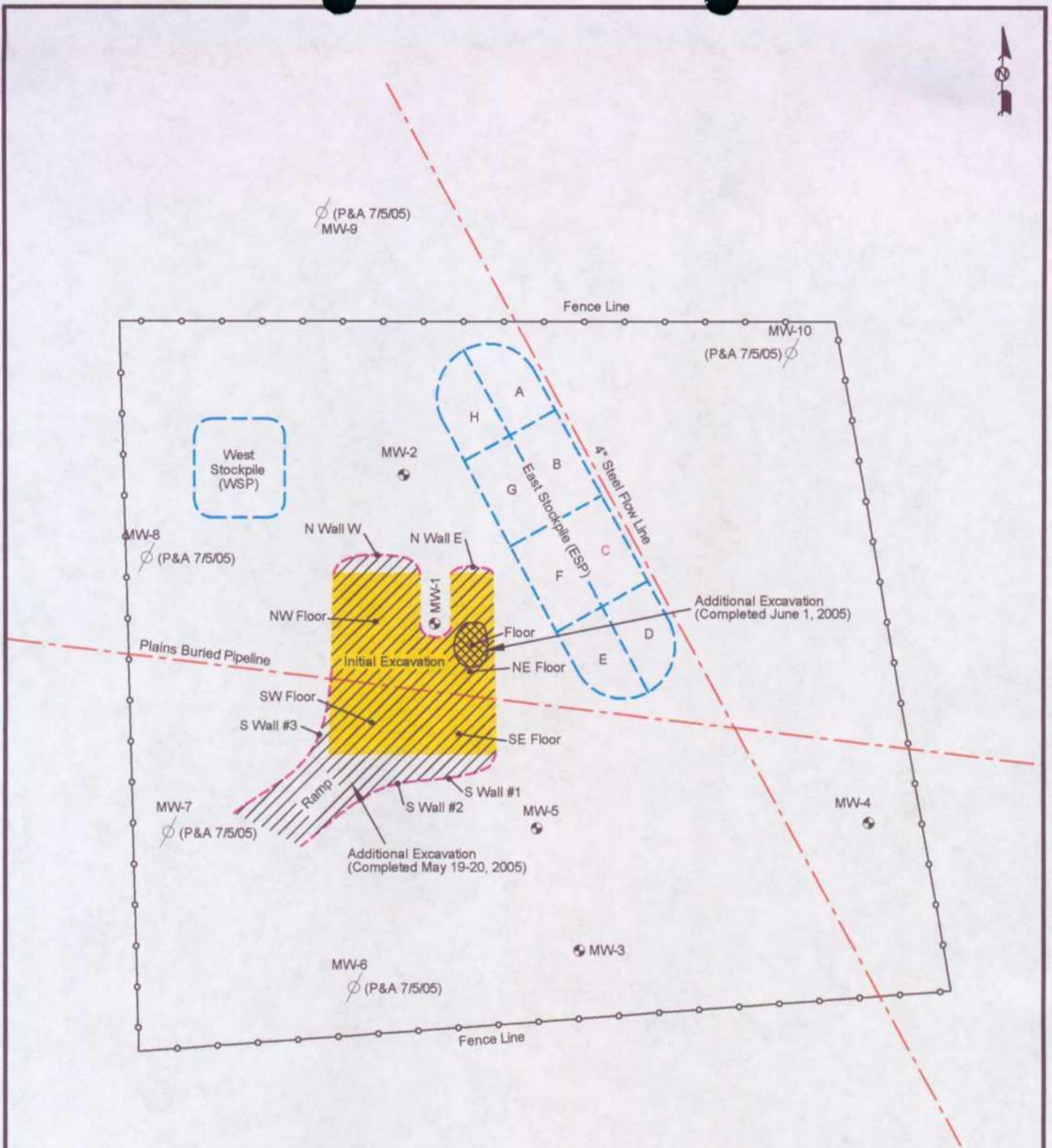
Figure 2
Site Map
(As of May 18, 2005)
Plains Marketing, L.P.
TNM98-05B
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 40'
October 4, 2005

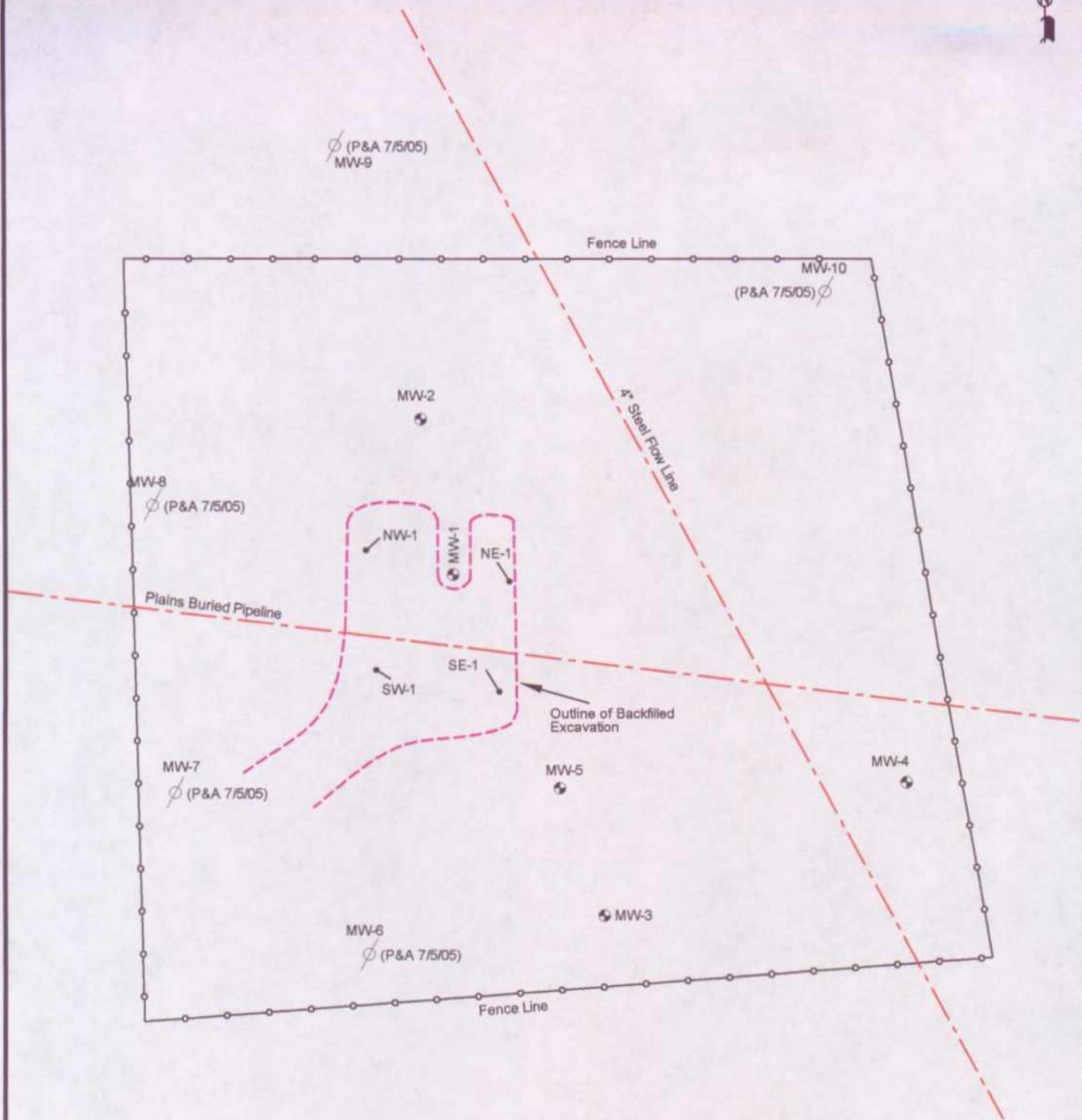
Prep By: CDS
Checked By: TKC



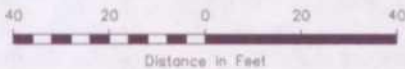
NOTE:
MW-6, MW-7, MW-8, MW-9, and MW-10 Were Plugged and Abandoned
July 2005 Per NMOCB Approval



Legend:		Figure 3 Excavation Stages and Sampling Locations Plains Marketing, L.P. TNM 98-05B Lea County, NM		NOVA Safety and Environmental	
	Monitor Well Location		Initial Excavation		
	Fence		Additional Excavation (completed May 19-20, 2005)	Scale: 1" = 40'	
	P&A - Plugged and Abandoned Monitor Well		Additional Excavation (completed June 1, 2005)	Prep By: CDS Checked By: TKC	
				October 3, 2005	



NOTE:
MW-6, MW-7, MW-8, MW-9, and MW-10 Were Plugged and Abandoned
July 2005 Per NMOCD Approval



Legend:

- Monitor Well Location
- Fence
- Outline of Backfilled Excavation
- P&A - Plugged and Abandoned Monitor Well

Figure 4
Confirmation Surface
Sample Locations
Plains Marketing, L.P.
TNM 98-05B
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 40'	Prep By: CDS	Checked By: TKC
October 3, 2005		

Tables

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN EXCAVATION SOIL SAMPLES
 TNM 98-05B
 PLAINS MARKETING, L.P.
 LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA SW 846-8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P,O- XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		5 mg/Kg				50 mg/Kg			100 mg/Kg
Excavation Walls	05/08/02	<0.025	0.266	0.275	492	492.541	711	896	1,607
Excavation Btm	05/08/02	<0.025	0.028	<0.025	58.2	58.228	<10.0	35.3	35
Stockpile East	05/08/02	<0.025	0.026	0.243	513	513.269	1540	1680	3,220
Stockpile West	05/08/02	<0.025	0.178	0.137	318	318.315	895	1080	1,975
Excavation S. Wall	11/14/02	<0.025	0.885	7.46	11.4	19.745	781	4900	5,681
Excavation N. Wall	11/14/02	<0.025	<0.025	0.112	0.136	0.248	20.8	186	207
Excavation W. Wall	11/14/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10
Excavation E. Wall	11/14/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10
Excavation Btm. Comp.	04/16/03	<0.025	<0.025	0.044	0.106	0.15	21.1	232	253
ESP-A	11/26/2004	<0.01	0.0634	<0.01	0.0114	0.0748	<50	<1.0	<50
ESP-B	11/26/2004	<0.01	0.199	0.0117	<0.01	0.2107	<50	<1.0	<50
ESP-C	11/26/2004	<0.01	0.26	<0.01	0.0105	0.275	<50	<1.0	<50
ESP-D	11/26/2004	<0.01	0.114	<0.01	<0.01	0.114	<50	<1.0	<50
ESP-E	11/26/2004	<0.01	0.0835	<0.01	<0.01	0.0835	<50	<1.0	<50
ESP-F	11/26/2004	<0.050	0.258	<0.050	<0.050	0.258	<50	<5.0	<50
ESP-H	11/26/2004	<0.10	0.56	<0.10	<0.10	0.56	109	<10.0	109
ESP-H	11/26/2004	<0.01	0.0626	<0.01	0.0164	0.079	<50	<1.0	<50
WSP	11/26/2004	<0.050	0.297	<0.050	<0.050	0.297	73.9	<5.0	73.9
SW Floor	5/20/2005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	22.8	22.8
NW Floor	5/20/2005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	44.5	44.5
NE Floor	5/20/2005	<0.0250	<0.0250	0.027	0.1004	0.1274	13.5	888	902
SE Floor	5/20/2005	<0.0250	<0.0250	<0.0250	0.0386	0.0386	<10	23.2	23.2
N Wall W	5/20/2005	<0.2050	<0.2050	<0.2050	<0.2050	<0.2050	<10	<10	<10
N Wall E	5/20/2005	<0.0250	<0.0250	0.0371	0.1363	0.1734	<10	<10	<10
S Wall #1	5/20/2005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10
S Wall #2	5/20/2005	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	18.6	18.6
S Wall #3	5/20/2005	<0.0250	<0.0250	<0.0250	0.0594	0.0594	<10	<10	<10

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN EXCAVATION SOIL SAMPLES
TNM 98-05B
PLAINS MARKETING, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA SW 846-8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P,O- XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		5 mg/Kg					50 mg/Kg		100 mg/Kg
*Floor	6/1/2005	<0.0250	<0.0250	<0.0250	<0.0250		<10	15.1	15.1
SE-1	7/5/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<1	492	492
NE-1	7/5/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<1	281	281
SW-1	7/5/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<1	336	336
NW-1	7/5/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<1	340	340
NW-1	9/7/2005						<1.00	<50.0	<50
NE-1	9/7/2005						<1.00	74.7	74.7
SW-1	9/7/2005						<1.00	52.8	52.8
SE-1	9/7/2005						<1.00	<50.0	<50

* Sample collected from same area as NE Floor Sample (5/20/05) after addition excavation

Appendices

Appendix A
Laboratory Reports

2056

8

FILE

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: TNM 98-05

Order#: G0203315

Report Date: 05/13/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample:</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203315-01	Excavation Walls	Soil	5/8/02 15:30	5/9/02 10:30	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 0 C			
8015M						
8021B/5030 BTEX						
0203315-02	Excavation Bottom	Soil	5/8/02 15:45	5/9/02 10:30	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 0 C			
8015M						
8021B/5030 BTEX						
0203315-03	Stockpile East	Soil	5/8/02 16:00	5/9/02 10:30	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 0 C			
8015M						
8021B/5030 BTEX						
0203315-04	Stockpile West	Soil	5/8/02 16:20	5/9/02 10:30	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 0 C			
8015M						
8021B/5030 BTEX						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-01
Sample ID: Excavation Walls

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/9/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	896	10.0
GRO, C6-C12	711	10.0
TOTAL, C6-C35	1607	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001667-02		5/9/02 22:00	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	275	25.0
Toluene	266	25.0
p/m-Xylene	492	25.0
o-Xylene	310	25.0

Lab ID: 0203315-02
Sample ID: Excavation Bottom

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/9/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	35.3	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	35.3	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-02
Sample ID: Excavation Bottom

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001667-02		5/9/02	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	27.7	25.0
p/m-Xylene	58.2	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203315-03
Sample ID: Stockpile East

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/9/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	1680	10.0
GRO, C6-C12	1540	10.0
TOTAL, C6-C35	3220	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-03
Sample ID: Stockpile East

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001667-02		5/9/02 22:44	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	243	25.0
Toluene	26.4	25.0
p/m-Xylene	513	25.0
o-Xylene	277	25.0

Lab ID: 0203315-04
Sample ID: Stockpile West

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/9/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	1080	10.0
GRO, C6-C12	895	10.0
TOTAL, C6-C35	1975	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

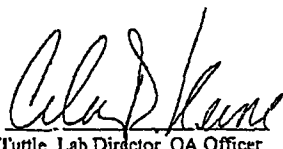
Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-04
Sample ID: Stockpile West

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001667-02		5/9/02 23:06	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	137	25.0
Toluene	178	25.0
p/m-Xylene	318	25.0
o-Xylene	140	25.0

Approval:  5/13/02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biczugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0203315

BLANK	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001644-02			<10.0		
MS	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203314-01	0	952	1170	122.9%	
MSD	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203314-01	0	952	1010	106.1%	14.7%
SRM	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001644-05		1000	1140	114%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203315

BLANK	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001667-02			<25.0		
Ethylbenzene-µg/kg		0001667-02			<25.0		
Toluene-µg/kg		0001667-02			<25.0		
p/m-Xylene-µg/kg		0001667-02			<25.0		
o-Xylene-µg/kg		0001667-02			<25.0		
MS	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203305-01	0	100	107	107%	
Ethylbenzene-µg/kg		0203305-01	0	100	110	110%	
Toluene-µg/kg		0203305-01	0	100	108	108%	
p/m-Xylene-µg/kg		0203305-01	0	200	228	114%	
o-Xylene-µg/kg		0203305-01	0	100	109	109%	
MSD	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203305-01	0	100	106	106%	0.9%
Ethylbenzene-µg/kg		0203305-01	0	100	108	108%	1.8%
Toluene-µg/kg		0203305-01	0	100	107	107%	0.9%
p/m-Xylene-µg/kg		0203305-01	0	200	226	113%	0.9%
o-Xylene-µg/kg		0203305-01	0	100	108	108%	0.9%
SRM	Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001667-05		100	112	112%	
Ethylbenzene-µg/kg		0001667-05		100	112	112%	
Toluene-µg/kg		0001667-05		100	114	114%	
p/m-Xylene-µg/kg		0001667-05		200	229	114.5%	
o-Xylene-µg/kg		0001667-05		100	110	110%	

COC 012 Page of

EOTT ENERGY CORP. Projects Only														
For Use On					CHAIN-OF-CUSTODY AND ANALYSIS REQUEST									
4800 West Wall Midland, TX 79703 Tel (915) 522-1139 Fax (915) 520-4310					3805 EOTT ENERGY CORP. East Business 20 TX 79702 Tel (915) 687-3400 Fax (915) 682-2781									
Project Manager: <u>CAMILLE REYNOLDS</u> Project Name: <u>JNM 78-05</u> Project Location: <u>EMULE, NM</u>					ANALYSIS REQUEST (Circle or Specify Method No.)									
EOTT Leak Number: <u>ETGI Project Number: EOT 2056C</u> Sampler Signature: <u>[Signature]</u>					PAH 8270C (8100 New Mexico only) TPH 418, 17X 1005 TPH 8015M GRO/DRO Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/7470 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles Volatiles 8260B Semi Volatiles 8270C TDS 160.1 Cations/Anions 375.4/325.3									
LAB # (Lab Use Only)	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX	PRESERVATION METHOD				SAMPLING					
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NaHSO ₄	ICE	NONE	DATE	TIME
020335-01	EXCAVATION WALLS	1	400	X							X		5-8	1530
	EXCAVATION BOTTOM	1	400										1545	
	STACKPILE EAST	1	400										1600	
	STACKPILE WEST	1	400										1620	
REMARKS: REC 0°C RUSH INVOICE EOT FAX RESULTS TO HOBBS														
Relinquished by: <u>Samir Casos 5902 1030</u>					Received by: _____					Time: _____				
Relinquished by: _____					Received at Lab by: <u>JOAN MONTANA</u>					Date: <u>5-9-02</u>				

FILE

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: TNM 98-05

PO#: EO2056

Order#: G0205067

Report Date: 11/22/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS**SAMPLE WORK LIST**

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

FILE

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205067-01	Excavation S. Side Wall Comp	SOIL	11/14/02 16:09	11/19/02 17:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
0205067-02	Excavation N. Side Wall Comp	SOIL	11/14/02 16:01	11/19/02 17:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
0205067-03	Excavation W. Side Wall Comp	SOIL	11/14/02 13:48	11/19/02 17:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
0205067-04	Excavation E. Side Wall Comp	SOIL	11/14/02 15:54	11/19/02 17:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-01
Sample ID: Excavation S. Side Wall Comp

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	781	10.0
DRO, >C12-C35	4,900	10.0
TOTAL, C6-C35	5,681	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	132%	70	130
1-Chlorooctadecane	152%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003839-02		11/21/02	1	25	CK	8021B
		2:01				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	7.46	0.025
Toluene	0.885	0.025
p/m-Xylene	11.4	0.025
o-Xylene	6.04	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	110%	80	120
Bromofluorobenzene	121%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-02
Sample ID: Excavation N. Side Wall Comp

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	20.8	10.0
DRO, >C12-C35	186	10.0
TOTAL, C6-C35	207	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	109%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003839-02		11/21/02	1	25	CK	8021B
		10:16				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.112	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.136	0.025
o-Xylene	0.072	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	101%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-03
Sample ID: Excavation W. Side Wall Comp

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	114%	70	130
1-Chlorooctadecane	112%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003839-02		11/21/02 9:00	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	98%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: C0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-04
Sample ID: Excavation E. Side Wall Comp

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	110%	70	130
1-Chlorooctadecane	104%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003844-02		11/21/02 18:23	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	88%	80	120

Approval: *Raland K. Tuttle* 11-22-02
 Raland K. Tuttle, Lab Director, QA Officer Date
 Cefey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0205067

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003842-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003842-03		952	980	102.9%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003842-04		952	1070	112.4%	8.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003842-05		1000	988	98.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205067

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003839-02			<0.025		
Benzene-mg/kg		0003844-02			<0.025		
Ethylbenzene-mg/kg		0003839-02			<0.025		
Ethylbenzene-mg/kg		0003844-02			<0.025		
Toluene-mg/kg		0003839-02			<0.025		
Toluene-mg/kg		0003844-02			<0.025		
p/m-Xylene-mg/kg		0003839-02			<0.025		
p/m-Xylene-mg/kg		0003844-02			<0.025		
o-Xylene-mg/kg		0003839-02			<0.025		
o-Xylene-mg/kg		0003844-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205067-04	0	0.1	0.098	98.4%	
Benzene-mg/kg		0205068-01	0	0.1	0.092	92.4%	
Ethylbenzene-mg/kg		0205067-04	0	0.1	0.104	104.4%	
Ethylbenzene-mg/kg		0205068-01	0	0.1	0.098	98.4%	
Toluene-mg/kg		0205067-04	0	0.1	0.101	101.4%	
Toluene-mg/kg		0205068-01	0	0.1	0.096	96.4%	
p/m-Xylene-mg/kg		0205067-04	0	0.2	0.220	110.4%	
p/m-Xylene-mg/kg		0205068-01	0	0.2	0.208	104.4%	
o-Xylene-mg/kg		0205067-04	0	0.1	0.105	105.4%	
o-Xylene-mg/kg		0205068-01	0	0.1	0.099	99.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205067-04	0	0.1	0.096	96.4%	2.1%
Benzene-mg/kg		0205068-01	0	0.1	0.094	94.4%	2.2%
Ethylbenzene-mg/kg		0205067-04	0	0.1	0.102	102.4%	1.9%
Ethylbenzene-mg/kg		0205068-01	0	0.1	0.100	100.4%	2.4%
Toluene-mg/kg		0205067-04	0	0.1	0.100	100.4%	1.4%
Toluene-mg/kg		0205068-01	0	0.1	0.097	97.4%	1.4%
p/m-Xylene-mg/kg		0205067-04	0	0.2	0.217	108.5%	1.4%
p/m-Xylene-mg/kg		0205068-01	0	0.2	0.211	105.5%	1.4%
o-Xylene-mg/kg		0205067-04	0	0.1	0.104	104.4%	1.4%
o-Xylene-mg/kg		0205068-01	0	0.1	0.100	100.4%	1.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003839-05		0.1	0.094	94.4%	
Benzene-mg/kg		0003844-05		0.1	0.100	100.4%	
Ethylbenzene-mg/kg		0003839-05		0.1	0.100	100.4%	
Ethylbenzene-mg/kg		0003844-05		0.1	0.105	105.4%	
Toluene-mg/kg		0003839-05		0.1	0.098	98.4%	

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8021B/5030 BTEX****Order#: G0205067**

<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg		0003844-05		0.1	0.104	104.0%	
p/m-Xylene-mg/kg		0003839-05		0.2	0.212	106.0%	
p/m-Xylene-mg/kg		0003844-05		0.2	0.224	112.0%	
o-Xylene-mg/kg		0003839-05		0.1	0.100	100.0%	
o-Xylene-mg/kg		0003844-05		0.1	0.106	106.0%	

Environmental Lab of Texas, Inc.
 12600 West 120 East
 Dallas, Texas 75263
 Phone: 915-563-1000
 Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUIREMENTS

COE #197 Port K

Project Name:

Geniec Kerners

Project Name:

YNM 98-05

Company Name:

ETGI

Project #:

EO2056

Company Address:

2540 W. Main

Project Loc:

Enrico, NM

City/State/Zip:

Alamosa, NM 88240

PO #:

Telephone No.:

505-397-4882

Fax No.:

505-397-4701

Sample Description:

10' of PM R. Edison

LOD # (for use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix						
					Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)			
205067-01	Excavation S. Side Wall Comp	11-14-02	16:09	1	X									X				
02	Excavation N. Side Wall Comp	11-14-02	16:01	1	X									X				
03	Excavation W. Side Wall Comp	11-14-02	13:48	1	X									X				
04	Excavation E. Side Wall Comp	11-14-02	15:54	1	X									X				

Analyzer Test		Result
TOC		
TOTAL		

Sample Collection Method:
 Temperature Upon Receipt:
 Laboratory Comments:

20°C

Received by:

[Signature]

Date: 11-19-02 Time: 14:42

Date: 11-19-02 Time: 17:15

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067**Project:** TNM 98-05

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Excavation S. Side	0205067-01	SOIL	11/14/2002	11/19/2002
Excavation N. Side	0205067-02	SOIL	11/14/2002	11/19/2002
Excavation W. Side	0205067-03	SOIL	11/14/2002	11/19/2002
Excavation E. Side	0205067-04	SOIL	11/14/2002	11/19/2002

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0205067-01)

Surrogate recoveries on the 8015 TPH are outside control limits due to matrix interference from coeluting compounds. (0205067-01)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Ralanda J. Smith
Environmental Lab of Texas I, Ltd.

Date: 11-22-02

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: TNM 98-05

PO#:

Order#: G0306301

Report Date: 04/22/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0306301
Project: EO 2056
Project Name: TNM 98-05
Location: Lea County, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306301-01	Excavation Bottom Comp.	SOIL	4/16/03 14:06	4/18/03 16:34	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 6.0 C			
8015M						
8021B/5030 BTEX						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306301
Project: EO 2056
Project Name: TNM 98-05
Location: Lea County, NM

Lab ID: 0306301-01
Sample ID: Excavation Bottom Comp.

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/21/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	21.1	10.0
DRO, >C12-C35	232	10.0
TOTAL, C6-C35	253	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	126%	70	130
1-Chlorooctadecane	119%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0005278-02		4/21/03 19:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.044	0.025
p/m-Xylene	0.106	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	97%	80	120

Approval:

Raland K. Tuttle 4-22-03
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306301

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005277-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005277-03		1000	921	92.1%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005277-04		1000	895	89.5%	2.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005277-05		1000	765	76.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306301

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005278-02			<0.025		
Toluene-mg/kg		0005278-02			<0.025		
Ethylbenzene-mg/kg		0005278-02			<0.025		
p/m-Xylene-mg/kg		0005278-02			<0.025		
o-Xylene-mg/kg		0005278-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306309-02	0	0.1	0.108	108.%	
Toluene-mg/kg		0306309-02	0	0.1	0.105	105.%	
Ethylbenzene-mg/kg		0306309-02	0	0.1	0.102	102.%	
p/m-Xylene-mg/kg		0306309-02	0	0.2	0.211	105.5%	
o-Xylene-mg/kg		0306309-02	0	0.1	0.102	102.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306309-02	0	0.1	0.099	99.%	8.7%
Toluene-mg/kg		0306309-02	0	0.1	0.096	96.%	9.%
Ethylbenzene-mg/kg		0306309-02	0	0.1	0.093	93.%	9.2%
p/m-Xylene-mg/kg		0306309-02	0	0.2	0.191	95.5%	10.%
o-Xylene-mg/kg		0306309-02	0	0.1	0.093	93.%	9.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005278-05		0.1	0.102	102.%	
Toluene-mg/kg		0005278-05		0.1	0.097	97.%	
Ethylbenzene-mg/kg		0005278-05		0.1	0.092	92.%	
p/m-Xylene-mg/kg		0005278-05		0.2	0.189	94.5%	
o-Xylene-mg/kg		0005278-05		0.1	0.092	92.%	

Report Date: December 7, 2004
TNM 98-05

Work Order: 4113008
TNM 98-05

Page Number: 1 of 1
Lea County

Summary Report

Craig Eschberger
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 7, 2004

Work Order: 4113008

Project Location: Lea County
Project Name: TNM 98-05
Project Number: TNM 98-05

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49254	ESP A	soil	2004-11-26	12:00	2004-11-30
49255	ESP B	soil	2004-11-26	12:05	2004-11-30
49256	ESP C	soil	2004-11-26	12:10	2004-11-30
49257	ESP D	soil	2004-11-26	12:15	2004-11-30
49258	ESP E	soil	2004-11-26	12:20	2004-11-30
49259	ESP F	soil	2004-11-26	12:25	2004-11-30
49260	ESP G	soil	2004-11-26	12:30	2004-11-30
49261	ESP H	soil	2004-11-26	12:35	2004-11-30
49262	West SP	soil	2004-11-26	00:00	2004-11-30

Sample - Field Code	BTEX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
49254 - ESP A	<0.0100	0.0634	<0.0100	0.0114	<50.0	<1.00
49255 - ESP B	<0.0100	0.199	0.0117	<0.0100	<50.0	<1.00
49256 - ESP C	<0.0100	0.260	<0.0100	0.0105	<50.0	<1.00
49257 - ESP D	<0.0100	0.114	<0.0100	<0.0100	<50.0	<1.00
49258 - ESP E	<0.0100	0.0835	<0.0100	<0.0100	<50.0	<1.00
49259 - ESP F	<0.0500	0.258	<0.0500	<0.0500	<50.0	<5.00
49260 - ESP G	<0.100	0.560	<0.100	<0.100	109	<10.0
49261 - ESP H	<0.0100	0.0626	<0.0100	0.0164	<50.0	<1.00
49262 - West SP	<0.0500	0.297	<0.0500	<0.0500	73.9	<5.00

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Craig Eschberger
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 7, 2004

Work Order: 4113008

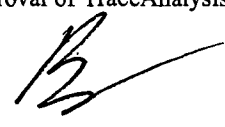
Project Location: Lea County
Project Name: TNM 98-05
Project Number: TNM 98-05

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49254	ESP A	soil	2004-11-26	12:00	2004-11-30
49255	ESP B	soil	2004-11-26	12:05	2004-11-30
49256	ESP C	soil	2004-11-26	12:10	2004-11-30
49257	ESP D	soil	2004-11-26	12:15	2004-11-30
49258	ESP E	soil	2004-11-26	12:20	2004-11-30
49259	ESP F	soil	2004-11-26	12:25	2004-11-30
49260	ESP G	soil	2004-11-26	12:30	2004-11-30
49261	ESP H	soil	2004-11-26	12:35	2004-11-30
49262	West SP	soil	2004-11-26	00:00	2004-11-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 49254 - ESP A

Analysis: BTEX
QC Batch: 14400
Prep Batch: 12722

Analytical Method: S 8021B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0634	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0114	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49254 - ESP A

Analysis: TPH DRO
QC Batch: 14356
Prep Batch: 12682

Analytical Method: Mod. 8015B
Date Analyzed: 2004-11-30
Date Prepared: 2004-11-30

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		142	mg/Kg	1	150	95	69.8 - 106.1

Sample: 49254 - ESP A

Analysis: TPH GRO
QC Batch: 14401
Prep Batch: 12722

Analytical Method: S 8015B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.831	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49255 - ESP B

Report Date: December 7, 2004
TNM 98-05

Work Order: 4113008
TNM 98-05

Page Number: 3 of 18
Lea County

Analysis: BTEX
QC Batch: 14400
Prep Batch: 12722

Analytical Method: S 8021B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.199	mg/Kg	10	0.00100
Ethylbenzene		0.0117	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.819	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.847	mg/Kg	10	0.100	85	63.1 - 105

Sample: 49255 - ESP B

Analysis: TPH DRO
QC Batch: 14356
Prep Batch: 12682

Analytical Method: Mod. 8015B
Date Analyzed: 2004-11-30
Date Prepared: 2004-11-30

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	1	171	mg/Kg	1	150	114	69.8 - 106.1

Sample: 49255 - ESP B

Analysis: TPH GRO
QC Batch: 14401
Prep Batch: 12722

Analytical Method: S 8015B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	10	0.100	94	0 - 174

Sample: 49256 - ESP C

Analysis: BTEX
QC Batch: 14400
Prep Batch: 12722

Analytical Method: S 8021B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

¹Surrogate recovery out of control chart range but within method limits.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.260	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0105	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.842	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.925	mg/Kg	10	0.100	92	63.1 - 105

Sample: 49256 - ESP C

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 14356 Date Analyzed: 2004-11-30 Analyzed By: BP
Prep Batch: 12682 Date Prepared: 2004-11-30 Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		137	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49256 - ESP C

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 14401 Date Analyzed: 2004-12-02 Analyzed By: MS
Prep Batch: 12722 Date Prepared: 2004-12-02 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.860	mg/Kg	10	0.100	86	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49257 - ESP D

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 14400 Date Analyzed: 2004-12-02 Analyzed By: MS
Prep Batch: 12722 Date Prepared: 2004-12-02 Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.114	mg/Kg	10	0.00100

continued ...

sample 49257 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.804	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.845	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49257 - ESP D

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 14356	Date Analyzed: 2004-11-30	Analyzed By: BP
Prep Batch: 12682	Date Prepared: 2004-11-30	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		140	mg/Kg	1	150	94	69.8 - 106.1

Sample: 49257 - ESP D

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 14401	Date Analyzed: 2004-12-02	Analyzed By: MS
Prep Batch: 12722	Date Prepared: 2004-12-02	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49258 - ESP E

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 14400	Date Analyzed: 2004-12-02	Analyzed By: MS
Prep Batch: 12722	Date Prepared: 2004-12-02	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0835	mg/Kg	10	0.00100

continued ...

sample 49258 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.914	mg/Kg	10	0.100	91	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.914	mg/Kg	10	0.100	91	63.1 - 105

Sample: 49258 - ESP E

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 14356	Date Analyzed: 2004-11-30	Analyzed By: BP
Prep Batch: 12682	Date Prepared: 2004-11-30	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	69.8 - 106.1

Sample: 49258 - ESP E

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 14401	Date Analyzed: 2004-12-02	Analyzed By: MS
Prep Batch: 12722	Date Prepared: 2004-12-02	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.913	mg/Kg	10	0.100	91	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49259 - ESP F

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 14400	Date Analyzed: 2004-12-02	Analyzed By: MS
Prep Batch: 12722	Date Prepared: 2004-12-02	Prepared By: MS

continued ...

sample 49259 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	2	<0.0500	mg/Kg	50	0.00100
Toluene		0.258	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	3	0.735	mg/Kg	50	0.100	15	60.1 - 104
4-Bromofluorobenzene (4-BFB)	4	0.913	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49259 - ESP F

Analysis: TPH DRO
QC Batch: 14356
Prep Batch: 12682

Analytical Method: Mod. 8015B
Date Analyzed: 2004-11-30
Date Prepared: 2004-11-30

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		128	mg/Kg	1	150	86	69.8 - 106.1

Sample: 49259 - ESP F

Analysis: TPH GRO
QC Batch: 14401
Prep Batch: 12722

Analytical Method: S 8015B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	5	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.705	mg/Kg	50	0.100	14	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Sample: 49260 - ESP G

²Sample diluted due to surfactant content.

³Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁴Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁵Sample diluted due to surfactants.

Analysis: BTEX
QC Batch: 14435
Prep Batch: 12753

Analytical Method: S 8021B
Date Analyzed: 2004-12-03
Date Prepared: 2004-12-03

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	6	<0.100	mg/Kg	100	0.00100
Toluene		0.560	mg/Kg	100	0.00100
Ethylbenzene		<0.100	mg/Kg	100	0.00100
Xylene		<0.100	mg/Kg	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	7	0.715	mg/Kg	100	0.100	7	60.1 - 104
4-Bromofluorobenzene (4-BFB)	8	0.877	mg/Kg	100	0.100	9	63.1 - 105

Sample: 49260 - ESP G

Analysis: TPH DRO
QC Batch: 14356
Prep Batch: 12682

Analytical Method: Mod. 8015B
Date Analyzed: 2004-11-30
Date Prepared: 2004-11-30

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		109	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	69.8 - 106.1

Sample: 49260 - ESP G

Analysis: TPH GRO
QC Batch: 14437
Prep Batch: 12753

Analytical Method: S 8015B
Date Analyzed: 2004-12-03
Date Prepared: 2004-12-03

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	9	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.680	mg/Kg	100	0.100	7	0 - 160
4-Bromofluorobenzene (4-BFB)		0.950	mg/Kg	100	0.100	10	0 - 174

Sample: 49261 - ESP H

⁶Diluted due to surfactant content.

⁷Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁸Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

⁹Sample diluted due to surfactant content.

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Analysis: BTEX
QC Batch: 14435
Prep Batch: 12753

Analytical Method: S 8021B
Date Analyzed: 2004-12-03
Date Prepared: 2004-12-03

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0626	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0164	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.794	mg/Kg	10	0.100	79	63.1 - 105

Sample: 49261 - ESP H

Analysis: TPH DRO
QC Batch: 14356
Prep Batch: 12682

Analytical Method: Mod. 8015B
Date Analyzed: 2004-11-30
Date Prepared: 2004-11-30

Prep Method: N/A
Analyzed By: BP
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		133	mg/Kg	1	150	89	69.8 - 106.1

Sample: 49261 - ESP H

Analysis: TPH GRO
QC Batch: 14437
Prep Batch: 12753

Analytical Method: S 8015B
Date Analyzed: 2004-12-03
Date Prepared: 2004-12-03

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	10	0.100	126	0 - 160
4-Bromofluorobenzene (4-BFB)		0.894	mg/Kg	10	0.100	89	0 - 174

Sample: 49262 - West SP

Analysis: BTEX
QC Batch: 14400
Prep Batch: 12722

Analytical Method: S 8021B
Date Analyzed: 2004-12-02
Date Prepared: 2004-12-02

Prep Method: S 5035
Analyzed By: MS
Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	¹⁰	<0.0500	mg/Kg	50	0.00100
Toluene		0.297	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹¹	0.823	mg/Kg	50	0.100	16	60.1 - 104
4-Bromofluorobenzene (4-BFB)	¹²	0.915	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49262 - West SP

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 14356	Date Analyzed: 2004-11-30	Analyzed By: BP
Prep Batch: 12682	Date Prepared: 2004-11-30	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		73.9	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		136	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49262 - West SP

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 14401	Date Analyzed: 2004-12-02	Analyzed By: MS
Prep Batch: 12722	Date Prepared: 2004-12-02	Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	¹³	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	50	0.100	16	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Method Blank (1) QC Batch: 14356

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

¹⁰Sample diluted due to surfactant content.

¹¹Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹²Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.

¹³Sample diluted due to surfactants.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		141	mg/Kg	1	150	94	69.8 - 106.1

Method Blank (1) QC Batch: 14400

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	10	0.100	101	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.716	mg/Kg	10	0.100	72	36.6 - 112

Method Blank (1) QC Batch: 14401

Parameter	Flag	Result	Units	RL
GRO		2.11	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	10	0.100	103	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.729	mg/Kg	10	0.100	73	50.7 - 113

Method Blank (1) QC Batch: 14435

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.990	mg/Kg	10	0.100	99	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.698	mg/Kg	10	0.100	70	36.6 - 112

Method Blank (1) QC Batch: 14437

Parameter	Flag	Result	Units	RL
GRO		<1.00	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	10	0.100	104	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.779	mg/Kg	10	0.100	78	50.7 - 113

Laboratory Control Spike (LCS-1) QC Batch: 14356

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	236	233	mg/Kg	1	250	<12.0	94	1	78.7 - 117.6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	132	128	mg/Kg	1	150	88	85	69.8 - 106.1

Laboratory Control Spike (LCS-1) QC Batch: 14400

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.938	0.969	mg/Kg	10	0.100	<0.0333	94	3	79.8 - 114	9.4
Toluene	0.974	0.978	mg/Kg	10	0.100	<0.0353	97	0	79.7 - 115	7.5
Ethylbenzene	0.993	0.989	mg/Kg	10	0.100	<0.0339	99	0	78.7 - 116	8
Xylene	2.80	2.78	mg/Kg	10	0.300	<0.103	93	1	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.960	1.05	mg/Kg	10	0.100	96	105	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.926	0.944	mg/Kg	10	0.100	93	94	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14401

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.64	11.3	mg/Kg	10	1.00	<0.381	96	16	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.934	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.984	1.02	mg/Kg	10	0.100	98	102	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 14435

continued ...

control spikes continued ...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.978	0.956	mg/Kg	10	0.100	<0.0333	98	2	79.8 - 114	9.4
Toluene	0.958	0.937	mg/Kg	10	0.100	<0.0353	96	2	79.7 - 115	7.5
Ethylbenzene	0.990	0.968	mg/Kg	10	0.100	<0.0339	99	2	78.7 - 116	8
Xylene	2.78	2.72	mg/Kg	10	0.300	<0.103	93	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.992	mg/Kg	10	0.100	101	99	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.954	0.933	mg/Kg	10	0.100	95	93	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14437

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.55	9.96	mg/Kg	10	1.00	<0.381	96	4	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.927	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.994	0.991	mg/Kg	10	0.100	99	99	72.2 - 119

Matrix Spike (MS-1) QC Batch: 14356 Spiked Sample: 49259

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO ¹⁴	295	253	mg/Kg	1	250	<12.0	118	15	67.7 - 110.5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane ¹⁵	163	134	mg/Kg	1	150	109	89	69.8 - 106.1

Matrix Spike (MS-1) QC Batch: 14400 Spiked Sample: 49254

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene ^{16,17}	0.818	0.676	mg/Kg	10	0.100	<0.0333	82	19	63.5 - 98.6	12
Toluene	0.889	0.710	mg/Kg	10	0.100	<0.0353	89	22	65.8 - 102	11.4

continued ...

¹⁴Spike recovery out of control chart range but within method limits.

¹⁵Surrogate recovery out of control chart range but within method limits.

¹⁶RPD out. LCS/LCSD show the analysis to be in control.

¹⁷RPD out. LCS/LCSD show the analysis to be in control.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Ethylbenzene	0.891	0.730	mg/Kg	10	0.100	<0.0339	89	20	66.6 - 106	10.5
Xylene	2.52	2.05	mg/Kg	10	0.300	<0.103	84	20	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.859	0.727	mg/Kg	10	0.1	86	73	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.919	0.744	mg/Kg	10	0.1	92	74	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14401 Spiked Sample: 49254

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.1	14.2	mg/Kg	10	1.00	<0.381	121	16	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.09	1.43	mg/Kg	10	0.1	109	143	0 - 160
4-Bromofluorobenzene (4-BFB)	1.06	1.02	mg/Kg	10	0.1	106	102	0 - 174

Matrix Spike (MS-1) QC Batch: 14435 Spiked Sample: 49466

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.794	0.839	mg/Kg	10	0.100	<0.0333	79	6	63.5 - 98.6	12
Toluene	0.838	0.852	mg/Kg	10	0.100	<0.0353	83	2	65.8 - 102	11.4
Ethylbenzene	0.891	0.900	mg/Kg	10	0.100	<0.0339	89	1	66.6 - 106	10.5
Xylene	2.52	2.57	mg/Kg	10	0.300	<0.103	84	2	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.853	0.807	mg/Kg	10	0.1	85	81	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.908	0.946	mg/Kg	10	0.1	91	95	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14437 Spiked Sample: 49261

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.5	12.2	mg/Kg	10	1.00	0.649	108	6	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	1.08	mg/Kg	10	0.1	101	108	0 - 160

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.960	1.02	mg/Kg	10	0.1	96	102	0 - 174

Standard (ICV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	294	118	75 - 125	2004-11-30

Standard (CCV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	75 - 125	2004-11-30

Standard (CCV-2) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	75 - 125	2004-11-30

Standard (ICV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0975	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14400

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.02	102	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.09	109	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0963	96	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0993	99	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.280	93	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0950	95	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0953	95	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2004-12-03

Standard (ICV-1) QC Batch: 14437

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.978	98	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14437

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.992	99	85 - 115	2004-12-03

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TraceAnalysis, Inc. 6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296		155 McCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (800) 588-3443											
Company Name: <u>Plains</u> Phone #: _____ Address: (Street, City, Zip) <u>Houston</u> Fax #: _____ Contact Person: _____		Project Name: <u>TNM 98-05</u> Project #: <u>TNM 98-05</u> Project Location: <u>Lea County</u>											
Invoice to: _____ (if different from above) Project #: _____ Project Location: _____		Sampler Signature: <u>[Signature]</u> Date: <u>11/26/04</u>											
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
49254	ESP A	1	4oz	X						X		11/26	12:10
55	ESP B	1										12:05	
56	ESP C	1										12:10	
57	ESP D	1										12:15	
58	ESP E	1										12:20	
59	ESP F	1										12:25	
60	ESP G	1										12:30	
61	ESP H	1										12:35	
62	West SP	1											

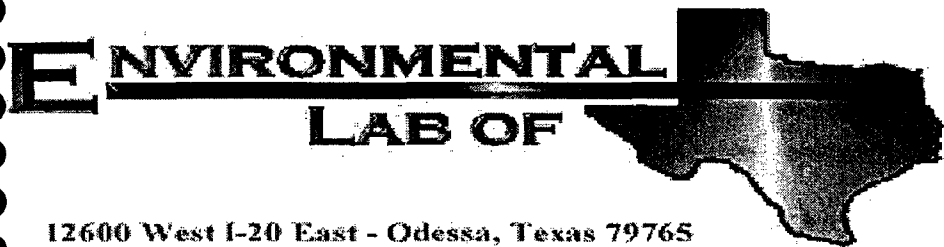
Relinquished by: <u>[Signature]</u> Date: <u>11/29/04</u> Time: <u>1645</u>	Received by: <u>[Signature]</u> Date: <u>11/29/04</u> Time: <u>1645</u>
Relinquished by: <u>[Signature]</u> Date: <u>11/29/04</u> Time: <u>1730</u>	Received by: <u>[Signature]</u> Date: <u>11/29/04</u> Time: <u>1730</u>
Relinquished by: <u>[Signature]</u> Date: <u>11/29/04</u> Time: <u>1730</u>	Received by: <u>[Signature]</u> Date: <u>11/30/04</u> Time: <u>9:13</u>

Submitter of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. <u>9/11/04</u>	
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Chain-of-Custody and Analysis Request LAB Order ID # <u>4113008</u>	
ANALYSIS REQUEST (Circle or Specify Method No.)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol 8260B/624 GC/MS Semi Vol 8270C/625 PCB's 8082/608 Pesticides 8081A/608 BOD TSS pH	Turn Around Time if different from standard

REMARKS: Please CC - Reports to C Eschberger NOVATraining CC	
LAB USE ONLY Intact <u>Y</u> / <u>N</u> Headspace <u>Y</u> / <u>N</u> Temp <u>41</u> ° Log-In Review <u>[Signature]</u> Carrier # <u>91003857</u>	

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12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: TNM9805B

Project Number: TNM9805B

Location: Eunice, NM

Lab Order Number: 5E23010

Report Date: 05/26/05

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW Floor	5E23010-01	Soil	05/20/05 14:10	05/23/05 14:10
NW Floor	5E23010-02	Soil	05/20/05 14:00	05/23/05 14:10
NE Floor	5E23010-03	Soil	05/20/05 14:20	05/23/05 14:10
SE Floor	5E23010-04	Soil	05/20/05 14:30	05/23/05 14:10
N Wall W	5E23010-05	Soil	05/20/05 14:40	05/23/05 14:10
N Wall E	5E23010-06	Soil	05/20/05 14:50	05/23/05 14:10
S Wall #1	5E23010-07	Soil	05/20/05 15:00	05/23/05 14:10
S Wall #2	5E23010-08	Soil	05/20/05 15:10	05/23/05 14:10
S Wall #3	5E23010-09	Soil	05/20/05 15:20	05/23/05 14:10

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW Floor (5E23010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	22.8	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	22.8	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.4 %	70-130		"	"	"	"	
NW Floor (5E23010-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	44.5	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	44.5	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.0 %	70-130		"	"	"	"	
NE Floor (5E23010-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0270	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0736	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0268	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	13.5	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	888	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	902	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 11

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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NE Floor (5E23010-03) Soil

Surrogate: 1-Chlorooctane		98.2 %	70-130		EE52302	05/23/05	05/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	

SE Floor (5E23010-04) Soil

Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	J [0.0121]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0386	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	23.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	23.2	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.2 %	70-130		"	"	"	"	

N Wall W (5E23010-05) Soil

Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/26/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.0 %	70-130		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N Wall E (5E23010-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0371	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0996	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0367	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.8 %	70-130		"	"	"	"	
S Wall #1 (5E23010-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.4 %	70-130		"	"	"	"	
S Wall #2 (5E23010-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.1 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	18.6	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	18.6	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S Wall #2 (5E23010-08) Soil									
Surrogate: 1-Chlorooctane		94.4 %	70-130		EE52302	05/23/05	05/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		93.2 %	70-130		"	"	"	"	
S Wall #3 (5E23010-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE52502	05/25/05	05/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0210]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0594	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0229]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		80.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE52302	05/23/05	05/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.2 %	70-130		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
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Reported:
05/26/05 15:41

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW Floor (5E23010-01) Soil									
% Moisture	2.7	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
NW Floor (5E23010-02) Soil									
% Moisture	2.7	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
NE Floor (5E23010-03) Soil									
% Moisture	2.8	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
SE Floor (5E23010-04) Soil									
% Moisture	8.6	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
N Wall W (5E23010-05) Soil									
% Moisture	7.0	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
N Wall E (5E23010-06) Soil									
% Moisture	1.5	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
S Wall #1 (5E23010-07) Soil									
% Moisture	7.8	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
S Wall #2 (5E23010-08) Soil									
% Moisture	4.1	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	
S Wall #3 (5E23010-09) Soil									
% Moisture	2.0	0.1	%	1	EE52311	05/24/05	05/24/05	% calculation	

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05/26/05 15:41

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EE52302 - Solvent Extraction (GC)

Blank (EE52302-BLK1)

Prepared & Analyzed: 05/23/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.8	70-130		
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130		

LCS (EE52302-BS1)

Prepared & Analyzed: 05/23/05

Gasoline Range Organics C6-C12	460	10.0	mg/kg wet	500		92.0	75-125		
Diesel Range Organics >C12-C35	484	10.0	"	500		96.8	75-125		
Total Hydrocarbon C6-C35	944	10.0	"	1000		94.4	75-125		
Surrogate: 1-Chlorooctane	39.2		mg/kg	50.0		78.4	70-130		
Surrogate: 1-Chlorooctadecane	39.5		"	50.0		79.0	70-130		

Calibration Check (EE52302-CCV1)

Prepared & Analyzed: 05/23/05

Gasoline Range Organics C6-C12	463		mg/kg	500		92.6	80-120		
Diesel Range Organics >C12-C35	510		"	500		102	80-120		
Total Hydrocarbon C6-C35	973		"	1000		97.3	80-120		
Surrogate: 1-Chlorooctane	46.6		"	50.0		93.2	70-130		
Surrogate: 1-Chlorooctadecane	38.4		"	50.0		76.8	70-130		

Matrix Spike (EE52302-MS1)

Source: 5E23003-01

Prepared & Analyzed: 05/23/05

Gasoline Range Organics C6-C12	490	10.0	mg/kg dry	529	ND	92.6	75-125		
Diesel Range Organics >C12-C35	546	10.0	"	529	ND	103	75-125		
Total Hydrocarbon C6-C35	1040	10.0	"	1060	ND	98.1	75-125		
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.4	70-130		
Surrogate: 1-Chlorooctadecane	40.4		"	50.0		80.8	70-130		

Matrix Spike Dup (EE52302-MSD1)

Source: 5E23003-01

Prepared & Analyzed: 05/23/05

Gasoline Range Organics C6-C12	455	10.0	mg/kg dry	529	ND	86.0	75-125	7.41	20
Diesel Range Organics >C12-C35	556	10.0	"	529	ND	105	75-125	1.81	20
Total Hydrocarbon C6-C35	1010	10.0	"	1060	ND	95.3	75-125	2.93	20
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	70-130		
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130		

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE52502 - EPA 5030C (GC)

Blank (EE52502-BLK1)

Prepared & Analyzed: 05/25/05

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	86.2		ug/kg	100		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	85.8		"	100		85.8	80-120			

LCS (EE52502-BS1)

Prepared & Analyzed: 05/25/05

Benzene	104		ug/kg	100		104	80-120			
Toluene	95.3		"	100		95.3	80-120			
Ethylbenzene	97.7		"	100		97.7	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Calibration Check (EE52502-CCV1)

Prepared & Analyzed: 05/25/05

Benzene	105		ug/kg	100		105	80-120			
Toluene	93.7		"	100		93.7	80-120			
Ethylbenzene	91.1		"	100		91.1	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	97.4		"	100		97.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	97.8		"	100		97.8	80-120			

Matrix Spike (EE52502-MS1)

Source: 5E23006-11

Prepared & Analyzed: 05/25/05

Benzene	105		ug/kg	100	ND	105	80-120			
Toluene	94.7		"	100	ND	94.7	80-120			
Ethylbenzene	95.9		"	100	ND	95.9	80-120			
Xylene (p/m)	213		"	200	ND	106	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE52502 - EPA 5030C (GC)

Matrix Spike Dup (EE52502-MSD1)

Source: 5E23006-11

Prepared & Analyzed: 05/25/05

Benzene	99.1		ug/kg	100	ND	99.1	80-120	5.78	20	
Toluene	90.8		"	100	ND	90.8	80-120	4.20	20	
Ethylbenzene	91.9		"	100	ND	91.9	80-120	4.26	20	
Xylene (p/m)	202		"	200	ND	101	80-120	4.83	20	
Xylene (o)	96.1		"	100	ND	96.1	80-120	5.96	20	
Surrogate: a,a,a-Trifluorotoluene	99.0		"	100		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EE52311 - General Preparation (Prep)

Blank (EE52311-BLK1)

Prepared & Analyzed: 05/24/05

% Moisture	ND	0.1	%
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Duplicate (EE52311-DUP1)

Source: 5E20009-01

Prepared & Analyzed: 05/24/05

% Moisture	3.1	0.1	%	2.8	10.2	20
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: TNM9805B
Project Number: TNM9805B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/26/05 15:41

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

5/26/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Nova Safety

Date/Time: 5/13/05 2:20

Order #: 5E23010

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	10.5 C
Shipping container/cooler in good condition?	☒ Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	☒ Yes	No	
Sample Instructions complete on Chain of Custody?	☒ Yes	No	
Chain of Custody signed when relinquished and received?	☒ Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	none
Container labels legible and intact?	Yes	No	na
Sample Matrix and properties same as on chain of custody?	☒ Yes	No	
Samples in proper container/bottle?	☒ Yes	No	
Samples properly preserved?	☒ Yes	No	
Sample bottles intact?	☒ Yes	No	
Preservations documented on Chain of Custody?	☒ Yes	No	
Containers documented on Chain of Custody?	☒ Yes	No	
Sufficient sample amount for indicated test?	☒ Yes	No	
All samples received within sufficient hold time?	☒ Yes	No	
VOC samples have zero headspace?	☒ Yes	No	Not Applicable

Other observations:

wrote on lid

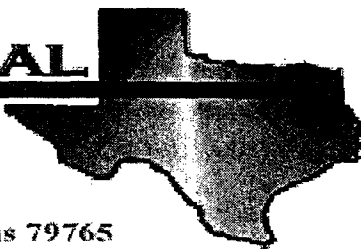
Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding: _____

Corrective Action Taken:

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Delrose Scott #98-05B

Project Number: TNM 98-05B

Location: Near Eunice, NM

Lab Order Number: 5F02008

Report Date: 06/07/05

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor	SF02008-01	Soil	06/01/05 14:22	06/02/05 13:50

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Floor (5F02008-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF50315	06/03/05	06/03/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF50304	06/03/05	06/03/05	EPA 8015M	
Diesel Range Organics >C12-C35	15.1	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	15.1	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.0 %	70-130		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Floor (5F02008-01) Soil									
% Moisture	7.2	0.1	%	1	EF50301	06/02/05	06/03/05	% calculation	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF50304 - Solvent Extraction (GC)

Blank (EF50304-BLK1)

Prepared & Analyzed: 06/03/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.1		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	39.3		"	50.0		78.6	70-130			

LCS (EF50304-BS1)

Prepared & Analyzed: 06/03/05

Gasoline Range Organics C6-C12	460	10.0	mg/kg wet	500		92.0	75-125			
Diesel Range Organics >C12-C35	466	10.0	"	500		93.2	75-125			
Total Hydrocarbon C6-C35	926	10.0	"	1000		92.6	75-125			
Surrogate: 1-Chlorooctane	35.8		mg/kg	50.0		71.6	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			

Calibration Check (EF50304-CCV1)

Prepared & Analyzed: 06/03/05

Gasoline Range Organics C6-C12	493		mg/kg	500		98.6	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	44.9		"	50.0		89.8	70-130			
Surrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			

Matrix Spike (EF50304-MS1)

Source: 5F02008-01

Prepared & Analyzed: 06/03/05

Gasoline Range Organics C6-C12	510	10.0	mg/kg dry	539	ND	94.6	75-125			
Diesel Range Organics >C12-C35	563	10.0	"	539	15.1	102	75-125			
Total Hydrocarbon C6-C35	1070	10.0	"	1080	15.1	97.7	75-125			
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	47.2		"	50.0		94.4	70-130			

Matrix Spike Dup (EF50304-MSD1)

Source: 5F02008-01

Prepared & Analyzed: 06/03/05

Gasoline Range Organics C6-C12	507	10.0	mg/kg dry	539	ND	94.1	75-125	0.590	20	
Diesel Range Organics >C12-C35	544	10.0	"	539	15.1	98.1	75-125	3.43	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1080	15.1	95.8	75-125	1.89	20	
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF50315 - EPA 5030C (GC)

Blank (EF50315-BLK1)

Prepared & Analyzed: 06/03/05

Benzene	ND	0.0250	ug/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	85.6		ug/kg	100		85.6	80-120			
Surrogate: 4-Bromofluorobenzene	82.0		"	100		82.0	80-120			

LCS (EF50315-BS1)

Prepared & Analyzed: 06/03/05

Benzene	105		ug/kg	100		105	80-120			
Toluene	98.7		"	100		98.7	80-120			
Ethylbenzene	85.6		"	100		85.6	80-120			
Xylene (p/m)	180		"	200		90.0	80-120			
Xylene (o)	81.6		"	100		81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	92.7		"	100		92.7	80-120			

Calibration Check (EF50315-CCV1)

Prepared & Analyzed: 06/03/05

Benzene	106		ug/kg	100		106	80-120			
Toluene	97.7		"	100		97.7	80-120			
Ethylbenzene	85.8		"	100		85.8	80-120			
Xylene (p/m)	184		"	200		92.0	80-120			
Xylene (o)	89.0		"	100		89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	91.7		"	100		91.7	80-120			

Matrix Spike (EF50315-MS1)

Source: 5E24006-04

Prepared & Analyzed: 06/03/05

Benzene	2590		ug/kg	2500	ND	104	80-120			
Toluene	2440		"	2500	ND	97.6	80-120			
Ethylbenzene	2240		"	2500	ND	89.6	80-120			
Xylene (p/m)	4750		"	5000	ND	95.0	80-120			
Xylene (o)	2360		"	2500	ND	94.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	105		"	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	89.7		"	100		89.7	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF50315 - EPA 5030C (GC)

Matrix Spike Dup (EF50315-MSD1)

Source: 5E24006-04

Prepared & Analyzed: 06/03/05

Benzene	2490		ug/kg	2500	ND	99.6	80-120	4.32	20	
Toluene	2330		"	2500	ND	93.2	80-120	4.61	20	
Ethylbenzene	2130		"	2500	ND	85.2	80-120	5.03	20	
Xylene (p/m)	4310		"	5000	ND	86.2	80-120	9.71	20	
Xylene (o)	2250		"	2500	ND	90.0	80-120	4.77	20	
Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	85.7		"	100		85.7	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF50301 - General Preparation (Prep)

Blank (EF50301-BLK1)

Prepared: 06/02/05 Analyzed: 06/03/05

% Moisture	ND	0.1	%							
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Duplicate (EF50301-DUP1)

Source: SF01025-01

Prepared: 06/02/05 Analyzed: 06/03/05

% Moisture	33.4	0.1	%		38.4			13.9	20	
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Delrose Scott #98-05B
Project Number: TNM 98-05B
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
06/07/05 14:07

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

6/7/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

6707 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 376-1296

TraceAnalysis, Inc.

135 McCulloch Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: **NOVA** Phone #: **520 7720**

Address: (Street, City, Zip) **2057 Commerce 7701**

Contact Person: **REpley** **repley@nova-training.cc**

Invoice to: (If different from above) **Plans - Camille Reynolds**

Project #: **TNM 98-0513** Known **as per attached email**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Sampler Signature: **[Signature]**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

Project Location: **Near Euwice, NM**

Project Name: **DeRose Scott 98-056**

ANALYSIS REQUEST

(Circle or Specify Method No.)

Turn Around Time if different from standard	
Hold	
GC/MS Vol. 8260B/624	
GC/MS Semi Vol. 8270C/625	
GC/MS 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
TCAP Pesticides	
TCAP Semi Volatiles	
TCAP Volatiles	
TCAP Metals Ag As Ba Cd Cr Pb Se Hg	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
FAH 8270C	
MTBE 8021B/602	
BTE 8021B/602	
FAH 8270C	
TCAP Metals Ag As Ba Cd Cr Pb Se Hg	
TCAP Volatiles	
TCAP Semi Volatiles	
TCAP Pesticides	
GC/MS Vol. 8260B/624	
GC/MS Semi Vol. 8270C/625	
GC/MS 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
Turn Around Time if different from standard	

REMARKS

LAB USE ONLY

Rec ut label & custody sc

Infant ☒ N
Headspace ☒ N
Test ☒ N
Log-in Review ☒ N

☐ Check if Special Reporting Limits Are Needed

Carrier #

Date: Time:

Received by:

Date: Time:

Relinquished by: **[Signature]** **6/1/05**

Received by:

Date: Time:

Relinquished by: **[Signature]** **6/1/05**

Date: Time:

Received by:

Date: Time:

Relinquished by: **[Signature]** **6/1/05**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL CDPI

•ent: NOVA-PLANS

Date/Time: 6/2/05 13:50

Order #: 5502008

Details: 1/2

OK

Sample Receipt Checklist			
Temperature of container/cooler?	Yes	No	40 C
Cooling container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Observations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
Samples received within sufficient hold time?	Yes	No	
QC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: July 13, 2005

Work Order: 5070715

Project Name: TNM 98-05B
Project Number: TNM 98-05B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
67449	SE-1	soil	2005-07-05	12:00	2005-07-07
67450	NE-1	soil	2005-07-05	12:07	2005-07-07
67451	SW-1	soil	2005-07-05	12:11	2005-07-07
67452	NW-1	soil	2005-07-05	12:27	2005-07-07

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 67449 - SE-1

Analysis: BTEX
QC Batch: 19528
Prep Batch: 17161

Analytical Method: S 8021B
Date Analyzed: 2005-07-08
Sample Preparation: 2005-07-08

Prep Method: S 5035
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	10	0.100	108	74.5 - 114
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	10	0.100	106	36.6 - 112

Sample: 67449 - SE-1

Analysis: Chloride (IC)
QC Batch: 19516
Prep Batch: 17136

Analytical Method: E 300.0
Date Analyzed: 2005-07-07
Sample Preparation: 2005-07-07

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10.8	mg/Kg	5	1.00

Sample: 67449 - SE-1

Analysis: TPH DRO
QC Batch: 19544
Prep Batch: 17173

Analytical Method: Mod. 8015B
Date Analyzed: 2005-07-11
Sample Preparation: 2005-07-08

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		492	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	57.5 - 139

Sample: 67449 - SE-1

Analysis: TPH GRO
QC Batch: 19527
Prep Batch: 17161

Analytical Method: S 8015B
Date Analyzed: 2005-07-08
Sample Preparation: 2005-07-08

Prep Method: S 5035
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	10	0.100	109	10 - 160
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	10	0.100	107	10 - 174

Sample: 67450 - NE-1

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 19528	Date Analyzed: 2005-07-08	Analyzed By: KB
Prep Batch: 17161	Sample Preparation: 2005-07-08	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	10	0.100	113	74.5 - 114
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	10	0.100	111	36.6 - 112

Sample: 67450 - NE-1

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 19516	Date Analyzed: 2005-07-07	Analyzed By: WB
Prep Batch: 17136	Sample Preparation: 2005-07-07	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11.3	mg/Kg	5	1.00

Sample: 67450 - NE-1

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 19544	Date Analyzed: 2005-07-11	Analyzed By: DS
Prep Batch: 17173	Sample Preparation: 2005-07-08	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		281	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		174	mg/Kg	1	150	116	57.5 - 139

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Sample: 67450 - NE-1

Analysis: TPH GRO
QC Batch: 19527
Prep Batch: 17161

Analytical Method: S 8015B
Date Analyzed: 2005-07-08
Sample Preparation: 2005-07-08

Prep Method: S 5035
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	10	0.100	115	10 - 160
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	10	0.100	112	10 - 174

Sample: 67451 - SW-1

Analysis: BTEX
QC Batch: 19528
Prep Batch: 17161

Analytical Method: S 8021B
Date Analyzed: 2005-07-08
Sample Preparation: 2005-07-08

Prep Method: S 5035
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	10	0.100	111	74.5 - 114
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	10	0.100	107	36.6 - 112

Sample: 67451 - SW-1

Analysis: Chloride (IC)
QC Batch: 19516
Prep Batch: 17136

Analytical Method: E 300.0
Date Analyzed: 2005-07-07
Sample Preparation: 2005-07-07

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11.8	mg/Kg	5	1.00

Sample: 67451 - SW-1

Analysis: TPH DRO
QC Batch: 19544
Prep Batch: 17173

Analytical Method: Mod. 8015B
Date Analyzed: 2005-07-11
Sample Preparation: 2005-07-08

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		336	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	57.5 - 139

Sample: 67451 - SW-1

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 19527	Date Analyzed: 2005-07-08	Analyzed By: KB
Prep Batch: 17161	Sample Preparation: 2005-07-08	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	10	0.100	113	10 - 160
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	10	0.100	106	10 - 174

Sample: 67452 - NW-1

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 19528	Date Analyzed: 2005-07-08	Analyzed By: KB
Prep Batch: 17161	Sample Preparation: 2005-07-08	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	10	0.100	106	74.5 - 114
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	10	0.100	105	36.6 - 112

Sample: 67452 - NW-1

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 19516	Date Analyzed: 2005-07-07	Analyzed By: WB
Prep Batch: 17136	Sample Preparation: 2005-07-07	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11.8	mg/Kg	5	1.00

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Sample: 67452 - NW-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	19544	Date Analyzed:	2005-07-11	Analyzed By:	DS
Prep Batch:	17173	Sample Preparation:	2005-07-08	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		340	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	57.5 - 139

Sample: 67452 - NW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	19527	Date Analyzed:	2005-07-08	Analyzed By:	KB
Prep Batch:	17161	Sample Preparation:	2005-07-08	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	10	0.100	107	10 - 160
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	10	0.100	104	10 - 174

Matrix Blank (1) QC Batch: 19516

Parameter	Flag	MDL Result	Units	RL
Chloride		1.75	mg/Kg	1

Method Blank (1) QC Batch: 19527

Parameter	Flag	MDL Result	Units	RL
GRO		2.11	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.956	mg/Kg	10	0.100	96	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.904	mg/Kg	10	0.100	90	50.7 - 113

Method Blank (1) QC Batch: 19528

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.001
Toluene		<0.00353	mg/Kg	0.001
Ethylbenzene		<0.00339	mg/Kg	0.001
Xylene		<0.0103	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.940	mg/Kg	10	0.100	94	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.903	mg/Kg	10	0.100	90	36.6 - 112

Method Blank (1) QC Batch: 19544

Parameter	Flag	MDL Result	Units	RL
DRO		<5.35	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		126	mg/Kg	1	150	84	57.5 - 139

Laboratory Control Spike (LCS-1) QC Batch: 19516

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	13.4	13.5	mg/Kg	1	12.5	1.75	93	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 19527

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.7	10.9	mg/Kg	10	1.00	<0.381	107	2	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.12	1.05	mg/Kg	10	0.100	112	105	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.987	0.984	mg/Kg	10	0.100	99	98	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 19528

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.974	0.869	mg/Kg	10	0.100	<0.0333	97	11	79.8 - 114	20

continued ...

control spikes continued...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Toluene	0.986	0.880	mg/Kg	10	0.100	<0.0353	99	11	79.7 - 115	20
Ethylbenzene	1.02	0.919	mg/Kg	10	0.100	<0.0339	102	10	78.7 - 116	20
Xylene	3.04	2.72	mg/Kg	10	0.300	<0.103	101	11	78.7 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.967	0.932	mg/Kg	10	0.100	97	93	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.979	0.913	mg/Kg	10	0.100	98	91	72 - 111

Laboratory Control Spike (LCS-1) QC Batch: 19544

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	292	277	mg/Kg	1	250	<5.35	117	5	84 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	134	129	mg/Kg	1	150	89	86	57.5 - 139

Matrix Spike (MS-1) QC Batch: 19516 Spiked Sample: 66647

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	81.5	81.9	mg/Kg	5	12.5	21.7	96	0	60.9 - 143	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 19527 Spiked Sample: 67449

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.2	12.4	mg/Kg	10	1.00	<0.381	122	2	10 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.975	0.852	mg/Kg	10	0.1	98	85	10 - 160
4-Bromofluorobenzene (4-BFB)	1.22	1.15	mg/Kg	10	0.1	122	115	10 - 174

Matrix Spike (MS-1) QC Batch: 19528 Spiked Sample: 67449

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	¹²	1.08	1.05	mg/Kg	10	0.100	<0.0333	108	3	63.5 - 98.6	20
Toluene	³⁴	1.13	1.10	mg/Kg	10	0.100	<0.0353	113	3	65.8 - 102	20
Ethylbenzene	⁵⁶	1.22	1.19	mg/Kg	10	0.100	<0.0339	122	2	66.6 - 106	20
Xylene	⁷⁸	3.65	3.56	mg/Kg	10	0.300	<0.103	122	2	67.4 - 108	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁹¹⁰	1.13	1.05	mg/Kg	10	0.1	113	105	60.1 - 104
4-Bromofluorobenzene (4-BFB)	¹¹	1.13	1.05	mg/Kg	10	0.1	113	105	63.1 - 105

Matrix Spike (MS-1) QC Batch: 19544 Spiked Sample: 67382

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO		558	582	mg/Kg	1	250	294	106	4	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	¹²¹³	259	264	mg/Kg	1	150	173	176	57.5 - 139

Standard (ICV-1) QC Batch: 19516

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.2	98	90 - 110	2005-07-07

Standard (CCV-1) QC Batch: 19516

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.3	98	90 - 110	2005-07-07

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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¹⁰Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹²High surrogate recovery due to peak interference.

¹³High surrogate recovery due to peak interference.

Standard (ICV-1) QC Batch: 19527

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.962	96	85 - 115	2005-07-08

Standard (CCV-1) QC Batch: 19527

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.956	96	85 - 115	2005-07-08

Standard (ICV-1) QC Batch: 19528

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0959	96	85 - 115	2005-07-08
Toluene		mg/Kg	0.100	0.0961	96	85 - 115	2005-07-08
Ethylbenzene		mg/Kg	0.100	0.0995	100	85 - 115	2005-07-08
Xylene		mg/Kg	0.300	0.296	99	85 - 115	2005-07-08

Standard (CCV-1) QC Batch: 19528

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0981	98	85 - 115	2005-07-08
Toluene		mg/Kg	0.100	0.0989	99	85 - 115	2005-07-08
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2005-07-08
Xylene		mg/Kg	0.300	0.301	100	85 - 115	2005-07-08

Standard (ICV-1) QC Batch: 19544

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	57.5 - 139	2005-07-11

Standard (CCV-1) QC Batch: 19544

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	274	110	57.5 - 139	2005-07-11

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TraceAnalysis, Inc. 6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296		155 McCutcheon, Suite H El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443																																																																																								
Company Name: NOVA Address: (Street, City, Zip) 2057 Commerce 7701 Contact Person: CURT STANLEY Invoice to: (if different from above) PLANS Project #: TNM 98-05B Project Location:		Phone #: 520 7720 Fax #: 7701 Project Name: TNM 98-05B Sampler Signature: <i>[Signature]</i>																																																																																								
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # 5070715	ANALYSIS REQUEST (Circle or Specify Method No.)																																																																																									
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				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE																																																																												
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50	NE-1	1	4	X								X	207																																																																													
51	SW-1	1	4	X								X	1211																																																																													
52	NW-1	1	4	X								X	1227																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>GC/MS Vol 8260B/624</th> <th>GC/MS Semi Vol 8270C/625</th> <th>PCBs 8082/608</th> <th>Pesticides 8081A/608</th> <th>BOD TSS pH</th> <th>Hold</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>				GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD TSS pH	Hold	X	X	X	X	X																																																																												
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X	X	X	X	X																																																																																						



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: September 13, 2005

Work Order: 5091208

Project Location: 9805-B
Project Name: 9805-B
Project Number: TNM-9805-B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
73124	NW-1	soil	2005-09-07	15:46	2005-09-10
73125	NE-1	soil	2005-09-07	15:34	2005-09-10
73126	SW-1	soil	2005-09-07	15:22	2005-09-10
73127	SE-1	soil	2005-09-07	15:05	2005-09-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 73124 - NW-1

Analysis: TPH DRO
QC Batch: 21197
Prep Batch: 18606

Analytical Method: Mod. 8015B
Date Analyzed: 2005-09-12
Sample Preparation: 2005-09-12

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		128	mg/Kg	1	150	85	50 - 150

Sample: 73124 - NW-1

Analysis: TPH GRO
QC Batch: 21209
Prep Batch: 18617

Analytical Method: S 8015B
Date Analyzed: 2005-09-12
Sample Preparation: 2005-09-12

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	10	0.100	106	10 - 160
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	10	0.100	101	10 - 174

Sample: 73125 - NE-1

Analysis: TPH DRO
QC Batch: 21197
Prep Batch: 18606

Analytical Method: Mod. 8015B
Date Analyzed: 2005-09-12
Sample Preparation: 2005-09-12

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		74.7	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		128	mg/Kg	1	150	85	50 - 150

Sample: 73125 - NE-1

Analysis: TPH GRO
QC Batch: 21209
Prep Batch: 18617

Analytical Method: S 8015B
Date Analyzed: 2005-09-12
Sample Preparation: 2005-09-12

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.854	mg/Kg	10	0.100	85	10 - 160
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	10	0.100	98	10 - 174

Sample: 73126 - SW-1

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 21197 Date Analyzed: 2005-09-12 Analyzed By: JL
Prep Batch: 18606 Sample Preparation: 2005-09-12 Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		52.8	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		137	mg/Kg	1	150	92	50 - 150

Sample: 73126 - SW-1

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 21209 Date Analyzed: 2005-09-12 Analyzed By: MT
Prep Batch: 18617 Sample Preparation: 2005-09-12 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	10	0.100	106	10 - 160
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	10	0.100	109	10 - 174

Sample: 73127 - SE-1

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 21197 Date Analyzed: 2005-09-12 Analyzed By: JL
Prep Batch: 18606 Sample Preparation: 2005-09-12 Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date: September 13, 2005
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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		142	mg/Kg	1	150	95	50 - 150

Sample: 73127 - SE-1

Analysis: TPH GRO
QC Batch: 21209
Prep Batch: 18617

Analytical Method: S 8015B
Date Analyzed: 2005-09-12
Sample Preparation: 2005-09-12

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.947	mg/Kg	10	0.100	95	10 - 160
4-Bromofluorobenzene (4-BFB)		0.989	mg/Kg	10	0.100	99	10 - 174

Method Blank (1) QC Batch: 21197

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		136	mg/Kg	1	150	91	50 - 150

Method Blank (1) QC Batch: 21209

Parameter	Flag	MDL Result	Units	RL
GRO		2.10	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.966	mg/Kg	10	0.100	96	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.849	mg/Kg	10	0.100	85	50.7 - 113

Laboratory Control Spike (LCS-1) QC Batch: 21197

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	233	249	mg/Kg	1	250	<12.0	93	7	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	138	134	mg/Kg	1	150	92	89	50 - 150

Laboratory Control Spike (LCS-1) QC Batch: 21209

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.27	9.77	mg/Kg	10	1.00	<0.381	93	5	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.877	0.916	mg/Kg	10	0.100	88	92	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.992	1.01	mg/Kg	10	0.100	99	101	72.2 - 119

Matrix Spike (MS-1) QC Batch: 21197 Spiked Sample: 73129

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	285	277	mg/Kg	1	250	114.9	68	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	130	136	mg/Kg	1	150	87	91	50 - 150

Matrix Spike (MS-1) QC Batch: 21209 Spiked Sample: 73124

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.62	9.50	mg/Kg	10	1.00	<0.381	96	1	10 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.928	0.835	mg/Kg	10	0.1	93	84	10 - 160
4-Bromofluorobenzene (4-BFB)	1.06	0.991	mg/Kg	10	0.1	106	99	10 - 174

Standard (ICV-1) QC Batch: 21197

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	284	114	75 - 125	2005-09-12

Standard (CCV-1) QC Batch: 21197

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	242	97	75 - 125	2005-09-12

Standard (ICV-1) QC Batch: 21209

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.962	96	85 - 115	2005-09-12

Standard (CCV-1) QC Batch: 21209

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.885	88	85 - 115	2005-09-12

Appendix B
Photographs



Looking Northwest from East wall toward monitor well MW-1



Looking South from Northeast wall toward South wall and ramp,
monitor well MW-1 in foreground



Looking Northwest from east wall toward Northeast quadrant wall, stockpiles at right



.Northeast quadrant floor from east wall



Floor excavation from East wall



Looking North from South wall

Appendix C
Form C-141

District I
625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds	
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965	
Facility Name TNM 98-05B	Facility Type 6" Steel Pipeline	
Surface Owner Delrose Scott	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	26	21S	37E					Lea

Latitude 32° 27' 03.8" Longitude 103° 08' 30.3"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 49 barrels	Volume Recovered 3 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 02-05-1998	Date and Hour of Discovery 02-05-1998
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Linda Williams	
By Whom? Johnny Chapman	Date and Hour 02-05-1998 @15:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* External corrosion of 6 inch pipeline.

Describe Area Affected and Cleanup Action Taken.* Aerial extent of surface impact was approximately 100 x 30 feet.

NOTE: This information was obtained from historical EOTT/Link files, Plains acquired EOTT/Link on April 1, 2004 and Plains assumes this information to be correct. The release occurred during the time the pipeline was owned and operated by Texas-New Mexico Pipeline Company.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:	
Printed Name: Camille Reynolds		
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached ☐
Date: 02/03/2005 Phone: 505-441-0965		

Attach Additional Sheets If Necessary