



**PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDATION PLAN**

**PLAINS MARKETING L.P.
SAUNDERS 8" # 4
EMS No. 2004-00184
Lea County, New Mexico**

**UNIT F, Section 35, Township 13 South, Range 33 East
33°, 08', 55.6" North, 103°, 35', 15.3" West**

Prepared For:

Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

15 November 2004


Ken Dutton

Basin Environmental Service Technologies, LLC

Plains Mktg = 34053
incident # PAC 06019 48756
application # PAC 06019 49147
PC 1/19/06

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INTRODUCTION

Allstate Environmental Services, LLC (AES) responded to a pipeline release for Plains Marketing L.P. (Plains), located on the Saunders 8" Pipeline on 12 August 2004. The Saunders 8" Pipeline was clamped and the impacted soils were excavated and stockpiled on a poly liner. Basin Environmental Service Technologies, LLC (Basin), will perform subsequent remediation of the site at the request of Plains.

This site is located in Unit F, Section 35, Township 13 South, Range 33 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The latitude is 33°, 08', 55.6" North, and longitude is 103°, 35', 15.3" West. The site is characterized by a right-of-way for the pipeline in a pasture utilized for cattle grazing. The stained area includes the release point and progresses east covering an area approximately 128 feet long by 89 feet wide. Approximately 15 barrels of crude oil were released from the Plains pipeline and 0 barrels were recovered.

An Emergency One-Call was initiated 12 August 2004 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. Larry Johnson, New Mexico Oil Conservation Division, Hobbs District 1 was verbally notified of the release on 12 August 2004.

The landowner, Mr. Norman Hahn, was out of state for an extended period of time when the release occurred, however; the ranch foreman, Mr. Kenneth Augustine was notified and is aware of the release and subsequent remedial actions taken. Contact with Mr. Hahn was accomplished 13 September 2004. Mr. Hahn was informed of all activities that have been accomplished to date and remedial actions that are being considered.

On 18 August 2004, Plains Pipeline replaced approximately 800 feet of the existing 8" steel pipeline with a 6" poly line. The 8" steel pipeline was purged of fluid and removed from the existing Plains right-of-way. After removal from the Plains right-of-way the steel pipeline was cut into 30-foot joints and transported to the Plains Pipeline Lovington, New Mexico yard. The 6" poly line will be placed in the existing Plains right-of-way upon completion of remediation of the impacted soil.

SUMMARY OF FIELD ACTIVITIES

On 12 August 2004, AES employee Bobby Blackwood arrived at the Saunders 8" Pipeline release to repair and contain the crude oil pipeline release. After the release had been contained utilizing a pipeline repair clamp, excavation of the impacted soil was initiated. The impacted soil was placed on a poly liner adjacent to the release.

On 13 August 2004, AES employee Bobby Blackwood began extended excavation of the impacted area. The release point was excavated to approximately 128 feet long by 89 feet wide and 3 to 4 feet below ground surface (bgs). All excavated soil was placed on a poly liner for future remedial action.

On 15 September 2004, Basin employee, Ken Dutton, installed 2 soil borings, utilizing Straub Corporation, of Stanton, Texas, collecting soil samples every 5 feet in order to delineate the horizontal and vertical nature and extent of crude oil impacted soil at the pipeline release (see Site Map, Figure 2). The soil borings were installed at the floor of the excavation (4 feet bgs) at the release point, and continued east on the excavation floor (pooling area). The soil borings ranged in depth from 10 feet bgs to 44 feet bgs (soil boring logs are attached as Appendix C). Each sample was screened with a Photoionization Detector (PID) which was calibrated on 13 September 2004. The selected soil samples were analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). On 04 November 2004, soil samples were collected from the excavation sidewalls, release point (floor), and pooling area and were analyzed for concentrations of BTEX and TPH-GRO/DRO.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed water depth information for that section averaged 87 feet bgs. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of 10 – 19, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 1000 ppm

Distribution of Hydrocarbons in the Unsaturated Zone

The release point area has been excavated to a depth of approximately 4 feet bgs and evidence of crude oil impact still exist on the floor of the excavation. PID readings reflect elevated concentrations of Volatile Organic Compounds (VOC) remain. A track-hoe was utilized to excavate approximately 15 feet bgs at the release point. PID readings reflected elevated concentrations of VOCs remain and a drill rig was utilized to delineate the vertical and horizontal extent of crude oil impacted soil. The release point excavation was backfilled due to livestock in the area. Soil boring 1 was installed on the floor of the excavation (release point) and the soil boring 2 east of the release point and on the excavation floor (pooling area). Soil samples were collected in the subsurface from the soil borings at 5 feet intervals. No visual observations of free phase hydrocarbons were encountered during the installation of the 2 soil borings (as indicated on Appendix C) or excavation of the

site. PID field screenings were utilized to determine which soil samples were to be submitted to the laboratory for analysis. Selected soil samples were analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Soil Boring 1, as depicted on the Site Map (Figure 2), was installed on the floor of the excavation at 4 feet bgs. Samples collected at the 5, 15, 30 and 40 feet bgs were analyzed. The true bgs of each sample is determined by adding 4 feet to each soil boring depth due to the installation of the soil boring at 4 feet bgs on the floor of the excavation. Analytical results indicated that BTEX and TPH were above NMOCD regulatory standards at 5 and 15 feet bgs. Analytical results indicated that the soil samples were below NMOCD regulatory standards at 30 and 40 feet bgs for BTEX and TPH.

Soil Boring 2, as depicted on the Site Map (Figure 2), was installed east of the release point on the floor of the excavation at the pooling area. Soil samples collected at the 5 and 10 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits from these 2 soil samples.

Soil samples were collected on 04 November 2004, from the release point, pooling area and the sidewalls as depicted on the Site Map (Figure 2). The soil sample collected at the release point was actually backfill from the initial excavation to determine the vertical extent of contamination and is not an accurate depiction of the native soil. The soil sample collected from the pooling area was at a depth of approximately 4 feet bgs. Analytical results indicated that BTEX was below laboratory detection limits and TPH was below NMOCD regulatory standards at 226 mg/kg. The soil samples from the sidewalls were at a depth of approximately 2 feet bgs. Analytical results indicated that BTEX was below laboratory detection limits on all four-soil samples. Analytical results indicated that TPH was below NMOCD regulatory standards on three sidewalls with the exception of the north wall soil sample at 1200 mg/kg.

RECOMMENDATIONS FOR REMEDIATION

Approximately 2100 cubic yards of impacted soil and caliche rock have been excavated and stockpiled on-site. Approximately 45% of the excavated soil consists of caliche rock. Due to the high content of caliche rock, screening of the stockpile is warranted to separate the rock and soil. Upon completion of the screening activities the caliche rock will be utilized as partial backfill. The screened soil, estimated to be 1155 cubic yards, will then be stockpiled in mounds of approximately 250 cubic yards. Nutrients will be added during the screening process to enhance the remediation process. Approximately 5 mounds will be required to facilitate remediation of the 1155 cubic yards. Initial soil sampling of the mounds will be conducted to ascertain the concentrations of contaminants. The screened soil, once sampled and a baseline established, will be utilized as backfill. The soil will be backfilled in one-foot thick lifts and aerated in-situ and sampled periodically to

ascertain the level of contaminants. Once NMOCD regulatory standards have been met for that specific lift, another lift will be placed on and aerated/tilled in a similar manner. Upon completion of remediation of all impacted soil, approximately 10 inches to 1 foot of topsoil will be purchased and contoured to the original rangeland surrounding the site and reseeded with approved grass seed. A closure report will be submitted to NMOCD upon completion of all tasks with appropriate documentation.

Based on the results of the soil delineation investigation, the release point and north wall will require further excavation and confirmation soil sampling to adhere to NMOCD regulatory standards. The excavated soils will be placed on poly liner prior to the screening process. Field screening with a PID will be utilized to determine the depth at which soil samples will be collected to adhere to NMOCD regulatory standards. Plains proposes to mechanically separate the rock and soil and the rock will be placed back in the excavation.

CLOSURE PROPOSAL

It is estimated that 1100 cubic yards of hydrocarbon impacted soil remains at the site and is represented by approximately twenty-five feet of impacted soil remaining beneath the excavation floor at the release point. The north wall is represented by approximately 50 cubic yards of impacted soil. It is proposed to excavate the remaining hydrocarbon impacted soil at the release point to a depth of approximately twenty-five feet bgs. The excavation area at the release point measures approximately thirty feet long and thirty feet wide. The north wall area measures approximately twenty feet long and four feet wide. Confirmation soil samples will be collected to ascertain if NMOCD regulatory standards have been met at the two areas of concern. In conjunction with the excavation of the release point and north wall, mechanical separation of the rock and soil will be on going. Upon attaining NMOCD regulatory standards at the release point and north wall, Plains proposes to utilize the rock separated during screening as backfill in the excavation (pursuant to standard NMOCD practices). Soil separated from the rock will be sampled for concentrations of TPH and BTEX at a rate of one sample per 250 cubic yards. Soil with TPH concentration less than 1000 ppm, benzene concentrations less than 10 ppm and total BTEX concentrations less than 50 ppm will be utilized as bottom backfill. Soil with TPH concentrations exceeding 1000 ppm, benzene concentrations exceeding 10 ppm and total BTEX concentrations exceeding 50 ppm will be backfilled in one-foot thick layers and aerated/tilled until contaminant concentrations are below site cleanup standards. Once a lift is deemed acceptable, a subsequent layer of soil will be placed on top and remediated in a similar manner. Sampling will be conducted periodically to ascertain the level of contaminants. Once NMOCD regulatory standards are met, a 10-inch to 1-foot layer of topsoil will be acquired from the landowner and the site will be contoured and reseeded to as near topographical conditions as possible.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Midland, Texas for BTEX, TPH analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

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

Groundwater Sampling

As groundwater was not encountered during the investigation process, no water samples were obtained.

Decontamination Of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox[®] detergent and rinsed with distilled water.

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.

LIMITATIONS

Basin Environmental Service Technologies, LLC has prepared this Preliminary Investigation Report and General Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC 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. Basin Environmental Service Technologies, LLC has prepared this report in a professional

manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC 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 Basin Environmental Service Technologies, LLC, and Plains Marketing, L.P.

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- Copy 4: Basin Environmental Service Technologies LLC
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Copy 3

TABLES

TABLE 1

SOIL CHEMISTRY, EXCAVATION

SOIL CHEMISTRY, EXCAVATION

FILAINS MARKETING L.P.

SAUNDERS 8" # 4

LEA COUNTY, NEW MEXICO

EMS: 2004-00184

[illegible]

TABLE 2

SOIL CHEMISTRY, SOIL BORINGS

TABLE 2

SOIL CHEMISTRY, SOIL BORINGS

PLAINS MARKETING L.P.
 SAUNDERS 8" #4
 LEA COUNTY, NEW MEXICO
 EMS: 2004-00184

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL
			BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M,P- XYLENES (mg/kg)	O-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SB-1*	5' (9')	09/15/04	0.604	9.36	3.75	18.8	7.5	1730	3900	5630
SB-1*	15' (19')	09/15/04	0.216	3.96	2.57	14.3	5.34	1800	4210	6010
SB-1*	30' (34')	09/15/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	26.7	26.7
SB-1*	40' (44')	09/15/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	5'	09/15/04	<0.025	<0.025	<0.025	0.050	<0.025	<10	<10	<10
SB-2	10'	09/15/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10

NOTE: * Soil Boring was installed on excavation floor, 4' bgs, bold number indicates true bgs from surface

FIGURES

FIGURE 1
SITE LOCATION MAP

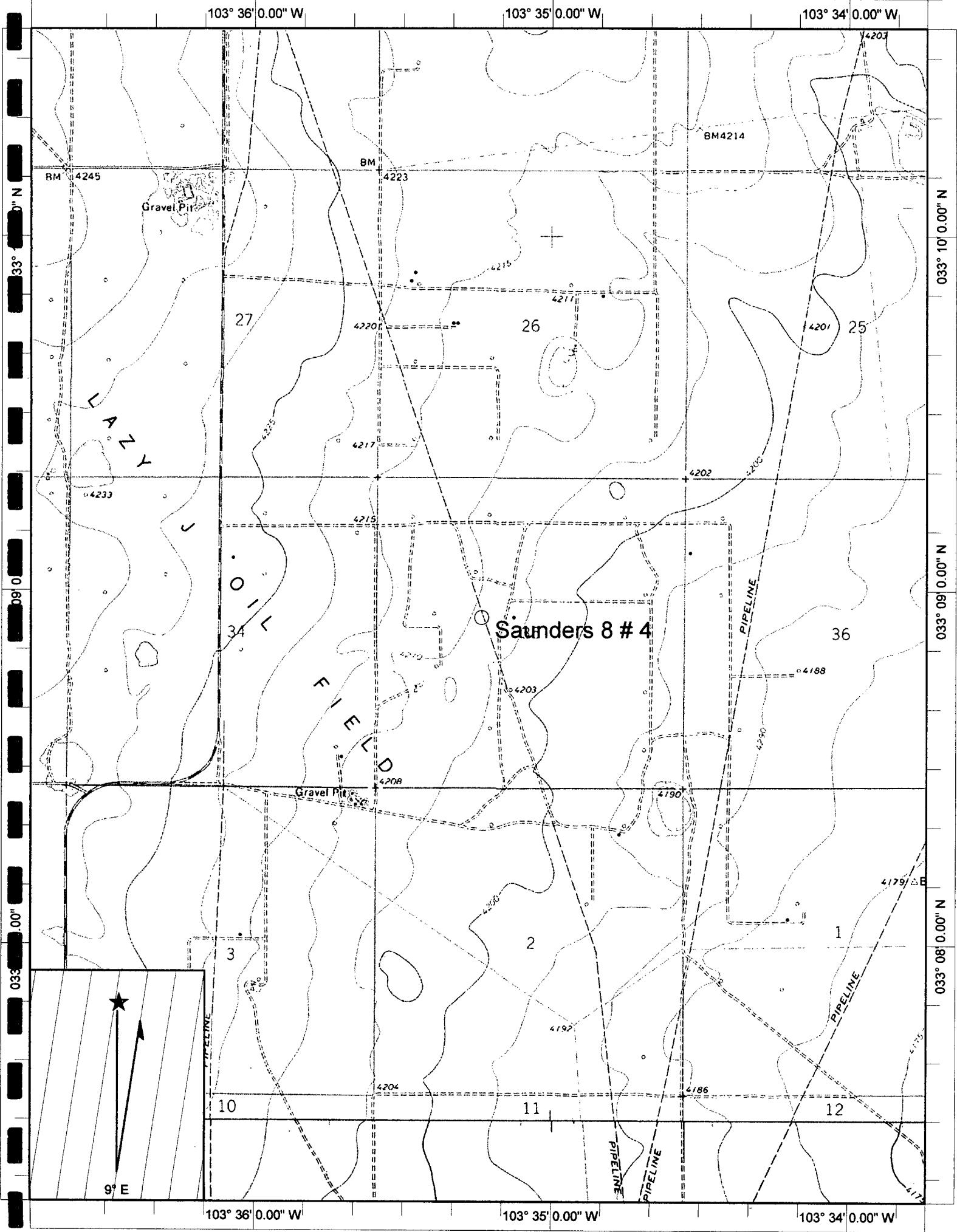


FIGURE 2

SITE MAP

Plains Pipeline



Excavated
Material

North wall
sample

SB-2

Pooling area
sample

East wall
sample

West wall
sample

Release Point
SB-1


Excavated Area
128' long by 89'
wide by 4' bgs

South wall
sample

TITLE	DRAWN BY	Date
Figure 2, Site Map Saunders 8" # 4	Basin Environmental Services KAD	15 Nov 04

FIGURE 3

DIGITAL PHOTO OF SITE



Release Point

Saunders 8" # 4
Plains Marketing
Unit L S24 T14S R33E

APPENDICES

APPENDIX A

**NEW MEXICO OFFICE OF THE STATE
ENGINEER WATER WELL DATABASE**

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

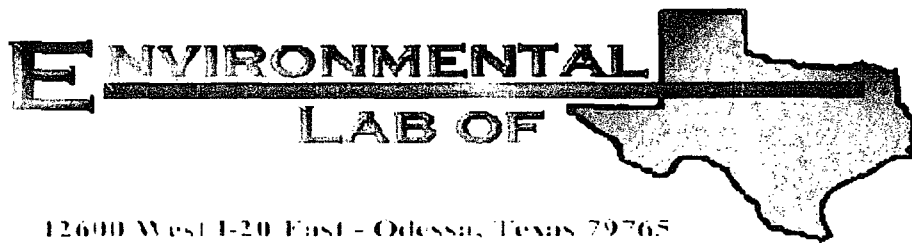
AVERAGE DEPTH OF WATER REPORT 11/15/2004

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	13S	33E	35				4	80	95	87

Record Count: 4

APPENDIX B

**ENVIRONMENTAL LABORATORY OF TEXAS
ANALYTICAL RESULTS**



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ken Dutton
Basin Environmental Services
P.O. Box 301
Lovington, TX 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Location: Lea County, NM

Lab Order Number: 4I17012

Report Date: 09/26/04

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1-5'	4I17012-01	Soil	09/15/04 10:12	09/17/04 14:15
SB-1-15'	4I17012-02	Soil	09/15/04 09:06	09/17/04 14:15
SB-1-30'	4I17012-03	Soil	09/15/04 09:15	09/17/04 14:15
SB-1-40'	4I17012-04	Soil	09/15/04 09:29	09/17/04 14:15
SB-2-5'	4I17012-05	Soil	09/15/04 09:52	09/17/04 14:15
SB-2-10'	4I17012-06	Soil	09/15/04 09:55	09/17/04 14:15

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1-5' (4I17012-01) Soil									
Benzene	0.604	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	9.36	0.0250	"	"	"	"	"	"	
Ethylbenzene	3.75	0.0250	"	"	"	"	"	"	
Xylene (p/m)	18.8	0.0250	"	"	"	"	"	"	
Xylene (o)	7.50	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		522 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		115 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1730	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	3900	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	5630	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		138 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		147 %	70-130		"	"	"	"	S-04
SB-1-15' (4I17012-02) Soil									
Benzene	0.216	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	3.96	0.0250	"	"	"	"	"	"	
Ethylbenzene	2.57	0.0250	"	"	"	"	"	"	
Xylene (p/m)	14.3	0.0250	"	"	"	"	"	"	
Xylene (o)	5.34	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		244 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		118 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1800	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	4210	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	6010	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		145 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		181 %	70-130		"	"	"	"	S-04
SB-1-30' (4I17012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	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		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	26.7	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	26.7	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1-30' (4I17012-03) Soil									
Surrogate: 1-Chlorooctane		100 %	70-130		EI41720	09/20/04	09/22/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
SB-1-40' (4I17012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	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		97.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [5.69]	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.0 %	70-130		"	"	"	"	
SB-2-5' (4I17012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	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		94.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.50]	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.0 %	70-130		"	"	"	"	

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

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Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2-10' (4117012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	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		89.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-130		"	"	"	"	

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1-5' (4I17012-01) Soil									
% Solids	91.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-15' (4I17012-02) Soil									
% Solids	74.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-30' (4I17012-03) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-40' (4I17012-04) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-2-5' (4I17012-05) Soil									
% Solids	97.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-2-10' (4I17012-06) Soil									
% Solids	96.0		%	1	EI42110	09/20/04	09/21/04	% calculation	

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:02

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 EI41720 - Solvent Extraction (GC)

Blank (EI41720-BLK1)

Prepared: 09/20/04 Analyzed: 09/21/04

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	52.1		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	62.4		"	50.0		125	70-130			

Blank (EI41720-BLK2)

Prepared: 09/20/04 Analyzed: 09/21/04

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	44.8		mg/kg	50.0		89.6	70-130			
Surrogate: 1-Chlorooctadecane	36.1		"	50.0		72.2	70-130			

LCS (EI41720-BS1)

Prepared & Analyzed: 09/20/04

Gasoline Range Organics C6-C12	418	10.0	mg/kg wet	500		83.6	75-125			
Diesel Range Organics >C12-C35	412	10.0	"	500		82.4	75-125			
Total Hydrocarbon C6-C35	830	10.0	"	1000		83.0	75-125			
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130			
Surrogate: 1-Chlorooctadecane	35.6		"	50.0		71.2	70-130			

LCS (EI41720-BS2)

Prepared: 09/20/04 Analyzed: 09/21/04

Gasoline Range Organics C6-C12	438	10.0	mg/kg wet	500		87.6	75-125			
Diesel Range Organics >C12-C35	470	10.0	"	500		94.0	75-125			
Total Hydrocarbon C6-C35	908	10.0	"	1000		90.8	75-125			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	70-130			
Surrogate: 1-Chlorooctadecane	35.5		"	50.0		71.0	70-130			

Calibration Check (EI41720-CCV1)

Prepared & Analyzed: 09/20/04

Gasoline Range Organics C6-C12	455		mg/kg	500		91.0	80-120			
Diesel Range Organics >C12-C35	552		"	500		110	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	57.2		"	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	61.2		"	50.0		122	70-130			

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:02

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 EI41720 - Solvent Extraction (GC)

Calibration Check (EI41720-CCV2)

Prepared: 09/20/04 Analyzed: 09/21/04

Gasoline Range Organics C6-C12	436		mg/kg	500		87.2	80-120			
Diesel Range Organics >C12-C35	583		"	500		117	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	57.7		"	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	62.6		"	50.0		125	70-130			

Matrix Spike (EI41720-MS1)

Source: 4I17011-06

Prepared & Analyzed: 09/20/04

Gasoline Range Organics C6-C12	428	10.0	mg/kg dry	510	ND	83.9	75-125			
Diesel Range Organics >C12-C35	543	10.0	"	510	19.1	103	75-125			
Total Hydrocarbon C6-C35	971	10.0	"	1020	19.1	93.3	75-125			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	50.1		"	50.0		100	70-130			

Matrix Spike (EI41720-MS2)

Source: 4I17012-05

Prepared: 09/20/04 Analyzed: 09/21/04

Gasoline Range Organics C6-C12	466	10.0	mg/kg dry	515	ND	90.5	75-125			
Diesel Range Organics >C12-C35	540	10.0	"	515	6.50	104	75-125			
Total Hydrocarbon C6-C35	1010	10.0	"	1030	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	43.5		"	50.0		87.0	70-130			

Matrix Spike Dup (EI41720-MSD1)

Source: 4I17011-06

Prepared & Analyzed: 09/20/04

Gasoline Range Organics C6-C12	445	10.0	mg/kg dry	510	ND	87.3	75-125	3.89	20	
Diesel Range Organics >C12-C35	563	10.0	"	510	19.1	107	75-125	3.62	20	
Total Hydrocarbon C6-C35	1010	10.0	"	1020	19.1	97.1	75-125	3.94	20	
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130			

Matrix Spike Dup (EI41720-MSD2)

Source: 4I17012-05

Prepared: 09/20/04 Analyzed: 09/21/04

Gasoline Range Organics C6-C12	460	10.0	mg/kg dry	515	ND	89.3	75-125	1.30	20	
Diesel Range Organics >C12-C35	540	10.0	"	515	6.50	104	75-125	0.00	20	
Total Hydrocarbon C6-C35	1000	10.0	"	1030	ND	97.1	75-125	0.995	20	
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	43.9		"	50.0		87.8	70-130			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:02

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 EI42407 - EPA 5030C (GC)

Blank (EI42407-BLK1)

Prepared & Analyzed: 09/22/04

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	94.9		ug/kg	100		94.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.4		"	100		80.4	80-120			

LCS (EI42407-BS1)

Prepared & Analyzed: 09/22/04

Benzene	105		ug/kg	100		105	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	226		"	200		113	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	98.0		"	100		98.0	80-120			

Calibration Check (EI42407-CCV1)

Prepared: 09/22/04 Analyzed: 09/23/04

Benzene	105		ug/kg	100		105	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	93.6		"	100		93.6	80-120			

Matrix Spike (EI42407-MS1)

Source: 4117012-05

Prepared: 09/22/04 Analyzed: 09/23/04

Benzene	108		ug/kg	100	ND	108	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	103		"	100	ND	103	80-120			
Xylene (p/m)	228		"	200	ND	114	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	98.1		"	100		98.1	80-120			

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:02

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 EI42407 - EPA 5030C (GC)

Matrix Spike Dup (EI42407-MSD1)

Source: 4I17012-05

Prepared: 09/22/04 Analyzed: 09/23/04

Benzene	114		ug/kg	100	ND	114	80-120	5.41	20	
Toluene	109		"	100	ND	109	80-120	1.85	20	
Ethylbenzene	102		"	100	ND	102	80-120	0.976	20	
Xylene (p/m)	237		"	200	ND	118	80-120	3.45	20	
Xylene (o)	105		"	100	ND	105	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:02

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 EI42110 - % Solids

Blank (EI42110-BLK1)

Prepared: 09/20/04 Analyzed: 09/21/04

% Solids	100	%
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Duplicate (EI42110-DUP1)

Source: 4I17011-03

Prepared: 09/20/04 Analyzed: 09/21/04

% Solids	93.0	%	93.0	0.00	20
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Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
09/26/04 11:02

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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:

9/26/04

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 Biezugbe, 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

12800 West I-20 East
Odessa, Texas 79765

Phone: 432-553-1800
Fax: 432-553-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton (BES)
Company Name: Basin Environmental Service Tech.
Company Address: P.O. Box 301
City/State/Zip: Livingston, NM 88260
Telephone No: (505) 396-2378
Fax No: (505) 396-1429
Sampler Signature: Ken Dutton

Project Name: Saunders 8" #4
Project #: 2004-00184
Project Loc: Lea County, NM
PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	PRESERVATIVE										ANALYZE FOR:												RUSH TAT (Pre-Schedule)	Standard TAT				
					Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	Other (Specify):	TPH: 418.1 (5015M)	1005	1008	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (0021B5000) or BTEX 8260	RCI			NORM			
4117012		2004																														
-01	SB-1-5'	15 SEP	1012	1	X									X	X																	X
-02	SB-1-15'		0906	1																												
-03	SB-1-30'		0915	1																												
-04	SB-1-40'		0929	1																												
-05	SB-2-5'		0952	1																												
-06	SB-2-10'		0955	1																												

Special Instructions: EMAIL RESULTS TO KAD@ZIANET.COM

DIRECT BILL PAA

Sample Containers Intact? Y N

Temperature Upon Receipt:

Laboratory Comments:

lic -1.5°C

Relinquished by	Date	Time	Received By	Date	Time
<u>Ken Dutton</u>	<u>17 SEP 04</u>	<u>0850</u>	<u>[Signature]</u>	<u>17 SEP 04</u>	<u>0850</u>
Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>9/17/04</u>	<u>1415</u>	<u>[Signature]</u>	<u>9-17-04</u>	<u>1415</u>

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Basin Environmental

Date/Time: 09-17 04:00 - 1545

Order #: 4317012

Initials: JMM

Sample Receipt Checklist

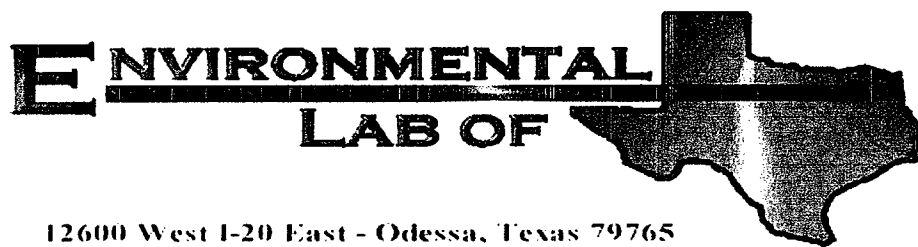
Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	-1.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ken Dutton

Basin Environmental Services

P.O. Box 301

Lovington, NM 88260

Project: Saunders 8 inch #4

Project Number: 2004-00184

Location: Lea County, NM

Lab Order Number: 4K05015

Report Date: 11/11/04

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429
Reported:
11/11/04 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Exc. Floor-RP-5' BGS	4K05015-01	Soil	11/04/04 13:05	11/05/04 15:27
Exc. Floor-Pooling Area 4'	4K05015-02	Soil	11/04/04 13:10	11/05/04 15:27
West Wall-Exc	4K05015-03	Soil	11/04/04 13:20	11/05/04 15:27
East Wall-Exc	4K05015-04	Soil	11/04/04 13:25	11/05/04 15:27
North Wall-Exc	4K05015-05	Soil	11/04/04 13:30	11/05/04 15:27
South Wall-Exc	4K05015-06	Soil	11/04/04 13:40	11/05/04 15:27

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Exc. Floor-RP-5' BGS (4K05015-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/09/04	EPA 8021B	
Toluene	0.0895	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0747	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.506	0.0250	"	"	"	"	"	"	
Xylene (o)	0.264	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	103	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	1030	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1130	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-130		"	"	"	"	
Exc. Floor-Pooling Area 4' (4K05015-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	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		85.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	226	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	226	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-130		"	"	"	"	
West Wall-Exc (4K05015-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	0.0964	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0427	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.281	0.0250	"	"	"	"	"	"	
Xylene (o)	0.141	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	77.4	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	695	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	772	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 11

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West Wall-Exc (4K05015-03) Soil									
Surrogate: 1-Chlorooctane		102 %	70-130		EK40508	11/05/04	11/06/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	
East Wall-Exc (4K05015-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	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		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	81.8	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	81.8	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	
North Wall-Exc (4K05015-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	J [0.0126]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0524	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0149]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		89.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	44.7	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	1150	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1200	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 11

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Wall-Exc (4K05015-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	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		92.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	J [7.62]	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	J
Diesel Range Organics >C12-C35	307	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	307	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-130		"	"	"	"	

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Exc. Floor-RP-5' BGS (4K05015-01) Soil									
% Moisture	12.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
Exc. Floor-Pooling Area 4' (4K05015-02) Soil									
% Moisture	7.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
West Wall-Exc (4K05015-03) Soil									
% Moisture	11.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
East Wall-Exc (4K05015-04) Soil									
% Moisture	14.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
North Wall-Exc (4K05015-05) Soil									
% Moisture	6.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
South Wall-Exc (4K05015-06) Soil									
% Moisture	7.0		%	1	EK40804	11/08/04	11/08/04	% calculation	

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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 EK40508 - Solvent Extraction (GC)

Blank (EK40508-BLK1)

Prepared & Analyzed: 11/05/04

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	42.8		mg/kg	50.0		85.6	70-130		
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130		

Blank (EK40508-BLK2)

Prepared: 11/05/04 Analyzed: 11/06/04

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	44.9		mg/kg	50.0		89.8	70-130		
Surrogate: 1-Chlorooctadecane	52.4		"	50.0		105	70-130		

LCS (EK40508-BS1)

Prepared & Analyzed: 11/05/04

Gasoline Range Organics C6-C12	446	10.0	mg/kg wet	500		89.2	75-125		
Diesel Range Organics >C12-C35	477	10.0	"	500		95.4	75-125		
Total Hydrocarbon C6-C35	923	10.0	"	1000		92.3	75-125		
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	70-130		
Surrogate: 1-Chlorooctadecane	50.9		"	50.0		102	70-130		

LCS (EK40508-BS2)

Prepared: 11/05/04 Analyzed: 11/06/04

Gasoline Range Organics C6-C12	430	10.0	mg/kg wet	500		86.0	75-125		
Diesel Range Organics >C12-C35	502	10.0	"	500		100	75-125		
Total Hydrocarbon C6-C35	932	10.0	"	1000		93.2	75-125		
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	70-130		
Surrogate: 1-Chlorooctadecane	45.7		"	50.0		91.4	70-130		

LCS Dup (EK40508-BSD1)

Prepared & Analyzed: 11/05/04

Gasoline Range Organics C6-C12	437	10.0	mg/kg wet	500		87.4	75-125	2.04	20
Diesel Range Organics >C12-C35	477	10.0	"	500		95.4	75-125	0.00	20
Total Hydrocarbon C6-C35	914	10.0	"	1000		91.4	75-125	0.980	20
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	70-130		
Surrogate: 1-Chlorooctadecane	53.3		"	50.0		107	70-130		

Environmental Lab of Texas

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Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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 EK40508 - Solvent Extraction (GC)

Calibration Check (EK40508-CCV1)

Prepared & Analyzed: 11/05/04

Gasoline Range Organics C6-C12	503		mg/kg	500		101	80-120			
Diesel Range Organics >C12-C35	551		"	500		110	80-120			
Total Hydrocarbon C6-C35	1050		"	1000		105	80-120			
Surrogate: 1-Chlorooctane	55.5		"	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	53.2		"	50.0		106	70-130			

Calibration Check (EK40508-CCV2)

Prepared: 11/05/04 Analyzed: 11/06/04

Gasoline Range Organics C6-C12	493		mg/kg	500		98.6	80-120			
Diesel Range Organics >C12-C35	567		"	500		113	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	55.6		"	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	54.5		"	50.0		109	70-130			

Matrix Spike (EK40508-MS2)

Source: 4K05013-14

Prepared: 11/05/04 Analyzed: 11/06/04

Gasoline Range Organics C6-C12	567	10.0	mg/kg dry	521	ND	109	75-125			
Diesel Range Organics >C12-C35	593	10.0	"	521	ND	114	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1040	ND	112	75-125			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	56.0		"	50.0		112	70-130			

Matrix Spike Dup (EK40508-MSD2)

Source: 4K05013-14

Prepared: 11/05/04 Analyzed: 11/06/04

Gasoline Range Organics C6-C12	594	10.0	mg/kg dry	521	ND	114	75-125	4.65	20	
Diesel Range Organics >C12-C35	604	10.0	"	521	ND	116	75-125	1.84	20	
Total Hydrocarbon C6-C35	1200	10.0	"	1040	ND	115	75-125	3.39	20	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	53.1		"	50.0		106	70-130			

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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 EK41003 - EPA 5030C (GC)

Blank (EK41003-BLK1)

Prepared & Analyzed: 11/09/04

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	88.3		ug/kg	100		88.3	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

LCS (EK41003-BS1)

Prepared & Analyzed: 11/09/04

Benzene	88.8		ug/kg	100		88.8	80-120			
Toluene	98.0		"	100		98.0	80-120			
Ethylbenzene	98.8		"	100		98.8	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	102		"	100		102	80-120			

Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

Calibration Check (EK41003-CCV1)

Prepared: 11/09/04 Analyzed: 11/10/04

Benzene	88.4		ug/kg	100		88.4	80-120			
Toluene	98.0		"	100		98.0	80-120			
Ethylbenzene	92.2		"	100		92.2	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	95.5		"	100		95.5	80-120			

Surrogate: a,a,a-Trifluorotoluene	105		"	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

Matrix Spike (EK41003-MS1)

Source: 4K08003-01

Prepared: 11/09/04 Analyzed: 11/10/04

Benzene	87.9		ug/kg	100	ND	87.9	80-120			
Toluene	98.0		"	100	ND	98.0	80-120			
Ethylbenzene	103		"	100	ND	103	80-120			
Xylene (p/m)	225		"	200	ND	112	80-120			
Xylene (o)	106		"	100	ND	106	80-120			

Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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 EK41003 - EPA 5030C (GC)

Matrix Spike Dup (EK41003-MSD1)

Source: 4K08003-01

Prepared: 11/09/04 Analyzed: 11/10/04

Benzene	90.9		ug/kg	100	ND	90.9	80-120	3.36	20	
Toluene	103		"	100	ND	103	80-120	4.98	20	
Ethylbenzene	106		"	100	ND	106	80-120	2.87	20	
Xylene (p/m)	235		"	200	ND	118	80-120	5.22	20	
Xylene (o)	110		"	100	ND	110	80-120	3.70	20	
Surrogate: a,a,a-Trifluorotoluene	110		"	100		110	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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 EK40804 - General Preparation (Prep)

Blank (EK40804-BLK1)

Prepared & Analyzed: 11/08/04

% Moisture	0.0	%
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Duplicate (EK40804-DUP1)

Source: 4K05006-01

Prepared & Analyzed: 11/08/04

% Moisture	20.0	%	20.0	0.00	20
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Basin Environmental Services
P.O. Box 301
Lovington NM, 88260

Project: Saunders 8 inch #4
Project Number: 2004-00184
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/11/04 10:22

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:

11/11/2004

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.

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

Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON

Project Name: SAUNDERS 8" #4

Company Name *BES*

Project #: *EMS: 2004-184*

Company Address: P.O. Box 301

Project Loc: LEA COUNTY, NM

City/State/Zip: LOVINGTON, NM 88260

PO #:

Telephone No: (505) 441-2124

Fax No: (505) 396-1429

Sampler Signature:

[illegible]

Special Instructions:

Sample Containers Intact?	
---------------------------	--

Temperature Upon Receipt: _____

Laboratory Comments:

Retinquished by

Date _____

Time

Received by _____

Date _____

Time

Relinquished by

Date _____

Time

Received by ELOT:

Date _____

Time

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Basin Environmental

Date/Time: 11-05-09 @ 11:00

Order #: 4K C5015

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.0	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not present</u>	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not present</u>	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

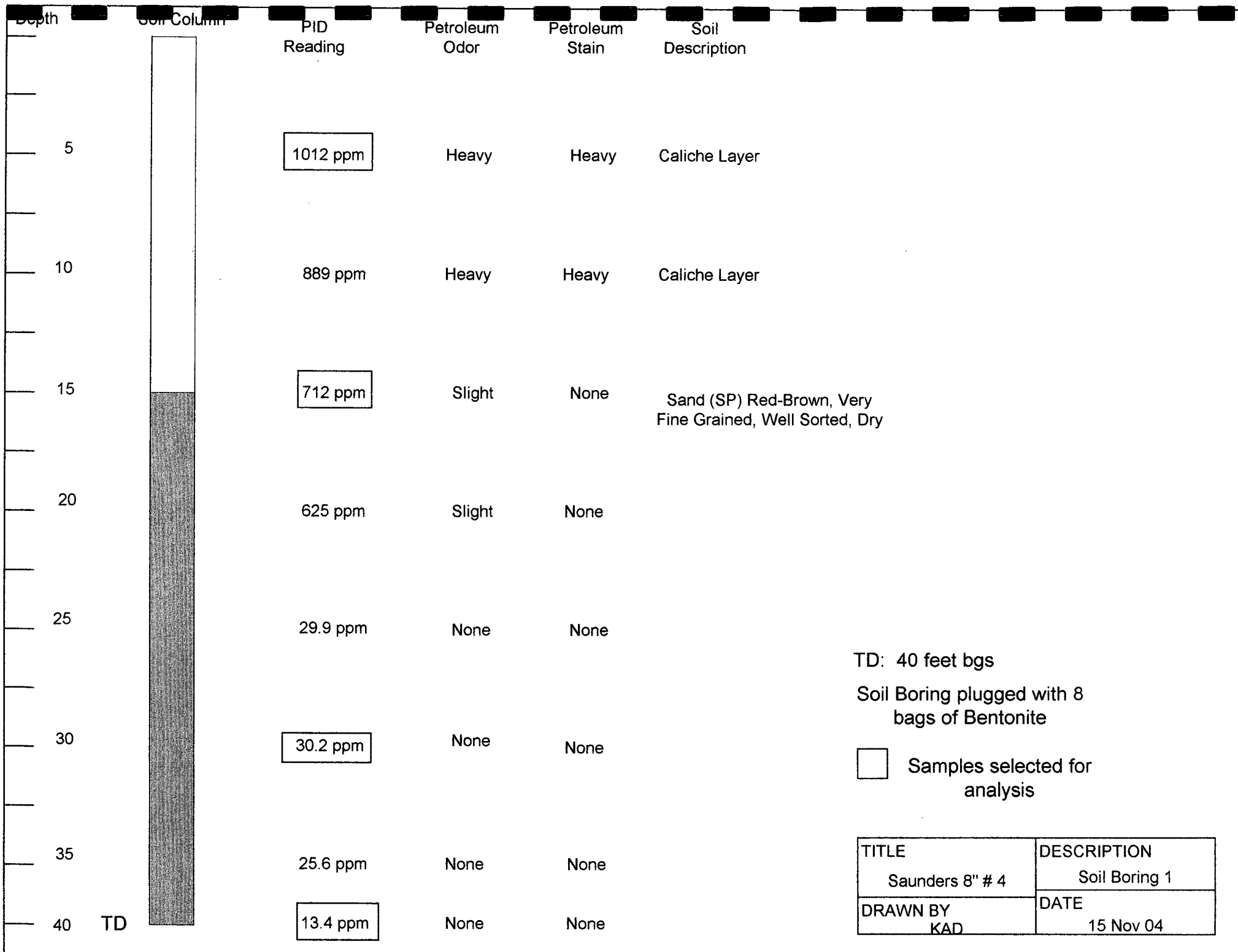
Variance Documentation:

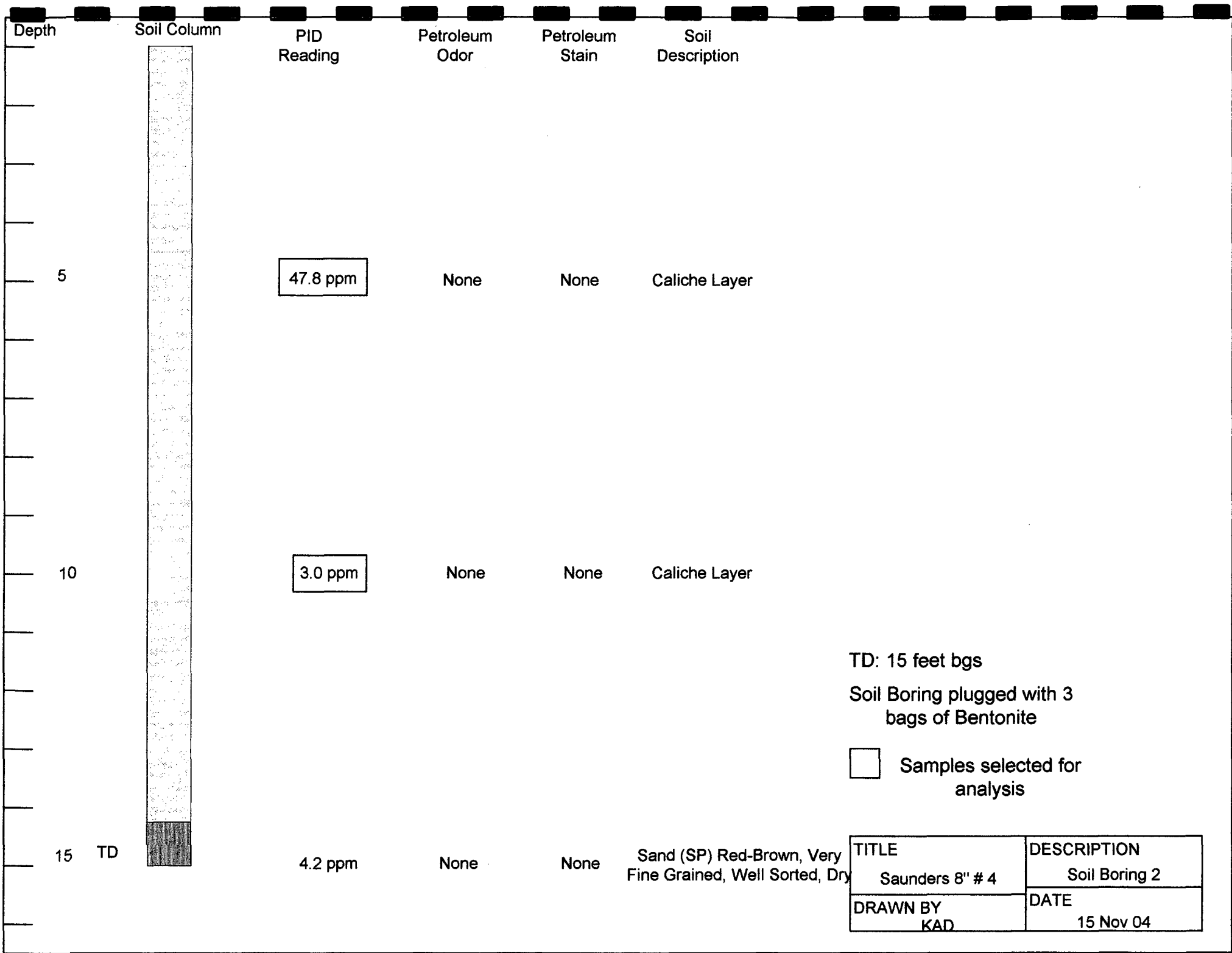
Contact Person: _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

APPENDIX C

SOIL BORING LOGS





APPENDIX D
NMOCD C-141

District I
1625 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

x 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 Saunders 8" #4	Facility Type 8" Steel Pipeline	
Surface Owner Norman Hahn	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter F	Section 35	Township 13S	Range 33E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 33°08'55.6" Longitude 103°35'15.3"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 15 barrels	Volume Recovered 0 barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 8-12-04 @ 06:00	Date and Hour of Discovery 8-12-04 @ 13:45
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 8-12-04 @ 19:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 the 8" steel pipeline. A line clamp was installed to mitigate the release. The line is an 8 inch steel transmission pipeline that produces approximately 1,400 barrels of crude per day. The pressure on the line varies from 25 to 30 psi and the gravity of the sweet crude oil is 38-42. The sweet crude has an H₂S content of less than 10 ppm

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 7.176 ft².

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.

Signature: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION		
Printed Name: Camille Reynolds	Approved by District Supervisor:		
Title: Remediation Coordinator	Approval Date:	Expiration Date:	
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-17-04	Phone: 505-441-0965		

* Attach Additional Sheets If Necessary



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

November 29, 2004

Ms. Camille Reynolds cjreynolds@paalp.com
Plains All American Pipeline

Re: Plan Approval, Saunders 8" #4
Site Reference UL-F Sec-35 T-13S R-33E
Initial C-144 Dated: 8-12-04
Request Plan Dated: 11-15-04

Dear Ms. Reynolds,

The Remediation Work Plan Proposal submitted to the New Mexico Oil Conservation Division (OCD) by Basin Environmental for Plains All American Pipeline (PAAP) is **hereby approved for 120 days** with the following considerations:

- Immediate notification if additional contamination is discovered during excavation (any contamination undetected by borehole delineation)
- 48 hour notification to OCD prior to final sampling
- Progress reports of lift installations
- Disturbed areas to be seeded for re-vegetation of native grasses and other plants must demonstrate growth within a reasonable time after site remediation operations cease

Please be advised that OCD approval of this plan does not relieve PAAP of responsibility should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve PAAP of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please call (505) 393-6161, x111 or e-mail lwjohnson@state.nm.us

Sincerely,

A handwritten signature in cursive script, appearing to read "L. Johnson".

Larry Johnson - Environmental Engineer

Cc:

Chris Williams - District I Supervisor
Ed Martin - Environmental Engineer
Paul Sheeley - Environmental Engineer
Ken Dutton - Basin Environmental Project Consultant kdutton@basinenv.com