

PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION PLAN

PLAINS MARKETING L.P.
SAUNDERS 8" # 1 & 3
EMS No. 2004-00142
Lea County, New Mexico
UNIT L, Section 24, Township 14 South, Range 33 East 33°, 05', 14.9" North, 103°, 34', 31.2" 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
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26 October 2004

Ken Dutton

Basin Environmental Service Technologies, LLC

Plains 34053 facility 10=fPAC 0601919862 lincident=nPAC 0601950066

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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 30 July 2004. The Saunders 8" Pipeline was clamped and the impacted soils was 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 L, Section 24, Township 14 South, Range 33 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The latitude is 33°, 05′, 14.9° North, and longitude is 103°, 34′, 31.2° 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 south following an unimproved road covering an area approximately 160 feet by 54 feet. The stained area following the unimproved road is approximately 1200 feet by 8 feet. Approximately 60 barrels of crude oil were released from the Plains pipeline and approximately 23 barrels were recovered. An additional release (Saunders #3) occurred on 9 August 2004 at the original release point, which resulted in approximately 20 barrels of crude oil released and approximately 14 barrels recovered. The second release was contained in the excavation resulting from the initial release.

An Emergency One-Call was initiated 30 July 2004 and all affected companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. Leon Anderson and Ms. Myra Meyers, New Mexico State Land Office, Hobbs Office, were notified 2 August 2004. A Right of Entry (ROE) permit was verbally approved (2 August 2004) by Mr. Cody Morrow, New Mexico State Land Office, Santa Fe, with appropriate protocols adhered to in obtaining a written ROE. Mr. Paul Sheeley, New Mexico Oil Conservation Division, Hobbs District 1 was verbally notified of the release on 30 July 2004.

The lessee, Mr. Norman Hahn, has been out of state for an extended period of time, however; the ranch foreman, Mr. Kenneth Augustine 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 16 August 2004, Plains Pipeline initiated the replacement of approximately 1300 feet of the existing 8" steel pipeline with a 6" poly line completing the replacement on 17 August 2004. 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 30 July 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 2 August 2004, AES employee Ken Dutton began extended excavation of the impacted area. The release point was excavated to approximately 160 feet long by 54 feet wide and 14 feet below ground surface (bgs). The unimproved road area was excavated to approximately 1200 feet long by 8 feet wide and 2 feet bgs. The south pooling area was excavated to approximately 75 feet long by 90 feet wide and 6 feet bgs. All excavated soil was placed on a poly liner for future remedial action.

On 14 September 2004, Basin employee, Ken Dutton, installed 4 boil 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, 14 feet bgs, the release point, and continued up gradient and down gradient around the excavation. The soil borings ranged in depth from 70 feet bgs to 79 feet bgs (soil boring logs are attached as Appendix C). Each sample was screened with a Photoionization Detector (PID) calibrated 13 September 2004. The selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons — gasoline range organics/diesel range organics (TPH-GRO/DRO).

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no water depth information for that section; however the adjoining sections had water depth information, which was 100 to 125 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 >19 due to the soil boring installed in the excavation floor, which indicated contamination at less than 50 feet bgs to water depth, and 10 – 19 at the pooling area and unimproved road area, therefore the remediation levels for the release point area, the pooled area and unimproved road area are:

Release Point Pooled Area and Unimproved Road

Benzene: 10 ppm Benzene: 10 ppm

BTEX: 50 ppm BTEX: 50 ppm

TPH: 100 ppm TPH: 1000 ppm

Distribution of Hydrocarbons in the Unsaturated Zone (Release Point)

The release point area has been excavated to a depth of approximately 14 feet bgs and evidence of crude oil impact still exist on the floor of the excavation. Photoionization Detector (PID) readings reflect elevated concentrations of Volatile Organic Compounds (VOC) remain. A drill rig was utilized to delineate the vertical and horizontal extent of crude oil impacted soil. Four soil borings were installed consisting of one soil boring on the floor of the excavation (release point) and the remaining three soil borings up and down gradient of the excavation. 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 4 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. 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 14 feet bgs. Samples collected at the 10, 20, 30, 40, 50 and 65 feet bgs were analyzed. The true bgs of each sample is determined by adding 14 feet to each soil boring depth due to the installation of the soil boring at 14 feet bgs on the floor of the excavation. Analytical results indicated that BTEX and TPH were above NMOCD regulatory standards at 10, 20, and 30 feet bgs. Analytical results indicated that the soil samples were below NMOCD regulatory standards at 40, 50, and 65 feet bgs for BTEX and TPH.

Soil Boring 2, as depicted on the Site Map (Figure 2), was installed up gradient at the northwest corner of the excavation approximately 5 feet from the excavation edge. Soil samples collected at the 5, 15, 45 and 70 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits for the four soil samples.

Soil Boring 3, as depicted on the Site Map (Figure 2), was installed down gradient at the southwest corner of the excavation approximately 5 feet from the excavation edge. Soil samples collected at the 5, 15, 45 and 70 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits for the four soil samples.

Soil Boring 4, as depicted on the Site Map (Figure 2), was installed cross gradient near the east side of the excavation approximately 5 feet from the excavation edge. Soil samples collected at the 5, 15, 45 and 70 feet bgs were analyzed. Analytical results indicated that BTEX and TPH concentrations were not detected above the laboratory method detection limits for the four soil samples.

Distribution of Hydrocarbons in the Unsaturated Zone (Unimproved Road Area and Pooling Area)

Soil samples were collected on 15 September 2004, from the pooling area and the unimproved road area as depicted on the Site Map (Figure 2). The soil sample collected from the pooling area was at a depth of 6.5 feet bgs. Analytical results indicated that BTEX was below laboratory detection limits and TPH exceeded NMOCD regulatory standards at 2060 mg/kg. The soil samples from the unimproved road were at a depth of 2.5 feet bgs. Analytical results indicated that the BTEX was below laboratory detection limits and the TPH exceeded NMOCD regulatory standards at 7560 mg/kg and 4070 mg/kg. Excavation of these two areas will be necessary to conform to NMOCD regulatory samples. Confirmation soil samples will be collected to determine if NMOCD regulatory samples have been achieved.

RECOMMENDATIONS FOR REMEDIATION

Approximately 6000 cubic yards of impacted soil and caliche rock have been excavated and stockpiled on-site. Approximately 75% of the excavated material 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 in accordance with standard NMOCD approved practices. The screened soil, estimated to be 1500 cubic yards, will then be stockpiled in bio-mounds of approximately 200 cubic yards. These bio-mounds will be placed on a poly liner and earthen berms will be placed around each individual bio-mound to prevent run-off of impacted soil due to inclement Nutrients will be added during the screening process to enhance the remediation process. Aeration tubing will be installed before the soil is screened to supply the required aeration for enhanced remediation. Approximately 7 bio-mounds will be required to facilitate the 1500 cubic yards. These bio-mounds will be strategically placed around the excavation to limit land damage and the travel distance for backfilling. A header system will be connected to each bio-mound allowing individual aeration of the bio-mound. Initial soil sampling of the bio-mounds will be conducted to document the baseline level of contaminants and the biomounds will be aerated on a monthly basis. Soil sampling will be conducted on a monthly basis and once NMOCD regulatory standards, based on the ranking criteria, have been met, the remediated soil will be backfilled in the excavation. Approximately 10 inches to 1 foot of topsoil will be purchased, placed on the top of the backfilled soil and contoured to the original rangeland surrounding the site and reseeded with approved New Mexico State Land Office (NMSLO) grass seed. A closure report will be submitted to NMOCD upon completion of all tasks with appropriate documentation. Additionally, a Site Restoration Plan will be submitted to NMSLO outlining the procedures for restoring the site to pre-release status.

The unimproved road and pooling areas will require further excavation and soil sampling to adhere to NMOCD regulatory standards. The excavated soils will be placed on poly liner and then screened and treated as described above. 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.

The release point has been excavated to an approximate depth of 14 feet bgs. Based on the results of the soil boring and sampling activities, it is estimated that 2700 cubic yards of impacted soil and rock are present beneath the floor of the excavation. An extremely hard layer of sandstone was encountered at the 14 feet bgs and further excavation will be difficult and would not be of significant benefit to the site since soil impacts are present to at least 50 feet bgs and a risk-based closure is proposed. The soil borings indicate that deeper crude oil impact was limited to the immediate vicinity of the release point area. Due to the remote area of this location and lack of receptors it is recommended that the following actions be taken.

• Based on the results of the soil delineation investigation, it is recommended that an impermeable barrier be installed to inhibit vertical migration of contaminates in soil left in place below the cap. Plains proposes to mechanically separate the rock and soil and the rock will be placed back in the excavation over the barrier. The separated (impacted) soil will be sampled and analyzed for concentrations of TPH and BTEX to determine if NMOCD regulatory standards have been met and be utilized as backfill.

CLOSURE PROPOSAL

The estimated 2700 cubic yards of hydrocarbon impacted soil and rock that remains at the site is represented by approximately thirty feet of impacted soil beneath the It is proposed to isolate the remaining source term with an excavation floor. impermeable barrier constructed of a minimum 40-ml poly liner. The barrier will extend a minimum of four feet beyond the edges of soil impacted above the NMOCD remedial thresholds and will be permanently installed to prevent vertical migration. A 6-inch layer of fine sand will be installed beneath and above the 40-ml poly liner to prevent degrading the integrity of the poly liner. Installation of the 40-ml poly barrier at a depth of approximately 14 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegradation of contaminants in the soil. After the barrier has been installed the excavation will be backfilled with rock separated from the stockpiled soil (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 100 ppm, benzene concentrations less than 10 ppm and total BTEX concentrations less than 50 ppm will be utilized as backfill. Soil exceeding the site-specific cleanup levels will be aerated as previously described.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, 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.

DISTRIBUTION

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TABLES

TABLE 1

SOIL CHEMISTRY, POOLING AREA, UNIMPROVED ROAD

TABLE 1

SOIL CHEMISTRY, POOLING AREA, UNIMPROVED ROAD

PLAINS MARKETING L.P. SAUNDERS 8" # 1 & 3 LEA COUNTY, NEW MEXICO

EMS:	2004-00182

SAMPLE	SAMPLE	SAMPLE		METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M		TOTAL
LOCATION	DEPTH	DATE	BENZENE	TOLUENE	ETHYL-	M,P-	O-XYLENE	GRO	DRO	TPH
					BENZENE	XYLENES				
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Pooling Area	6.5'	09/15/04	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	137	1920	2060
North Unimproved										
Road	2.5'	09/15/04	<0.0250	<0.0250	<0.0250	0.073	0.0534	198	7360	7560
South Unimproved										
Road	2.5'	09/15/04	<0.0250	0.03	0.0438	0.162	0.0936	90.7	3980	4070
		<u> </u>								

TABLE 2 SOIL CHEMISTRY, SOIL BORINGS

TABLE 2
SOIL CHEMISTRY, SOIL BORINGS

PLAINS MARKETING L.P. SAUNDERS 8" # 1 & 3 LEA COUNTY, NEW MEXICO EMS: 2004-00182

SAMPLE	SAMPLE	SAMPLE		METHOD: E	PA SW 846-)	METHO	D: 8015M	TOTAL	
LOCATION	DEPTH	DATE	BENZENE	TOLUENE		M,P-	O-XYLENE	GRO	DRO	TPH
			(mg/kg)	(mg/kg)	BENZENE (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1*	10' (24')	09/14/04	0.316	5.12	3.36	14.8	7.56	2210	7210	9420
SB-1*	20' (34')	09/14/04	0.338	5.18	4.97	16.4	8.54	3050	8690	11700
SB-1*	30' (44')	09/14/04	0.135	2.60	2.95	10.9	5.47	2170	7370	9540
SB-1*	40' (54')	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	815	815
SB-1*	50' (64')	09/14/04	<0.025	<0.025	<0.025	0.050	<0.025	19.7	250	270
SB-1*	65' (79')	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	19.1	19.1
SB-2	5'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	15'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	45'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	70'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	5'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	15'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	45'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	70'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	5'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	15'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	45'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	70'	09/14/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10

NOTE: * Soil Boring was installed on excavation floor, 14' bgs, bold number indicates true bgs from surface

TABLE 3
SOIL CHEMISTRY, EXCAVATED AREA

TABLE 3

SOIL CHEMISTRY

PLAINS MARKETING L.P. SAUNDERS 8" # 1 & 3 LEA COUNTY, NEW MEXICO

EMS: 2004-00182

SAMPLE	SAMPLE SAMPLE SAMPLE				PA SW 846-	METHOD: 8015M		TOTAL		
LOCATION	DEPTH	DATE	BENZENE		ETHYL- BENZENE		O-XYLENE	GRO	DRO	TPH
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
North Ramp-Exc	7'	11/04/04	<0.025	0.164	0.128	0.399	0.162	42.5	588	680
South Ramp-Exc	7'	11/04/04	<0.025	<0.025	<0.025	<0.025	<0.025	<10	14.7	14.7
Exc Floor-East	14'	11/04/04	1.02	16.1	11.6	41.9	18.0	3770	12200	16000
Exc Floor-West	14'	11/04/04	0.186	2.34	2.15	11.6	5.75	344	1630	1970

FIGURES

FIGURE 1 SITE LOCATION MAP

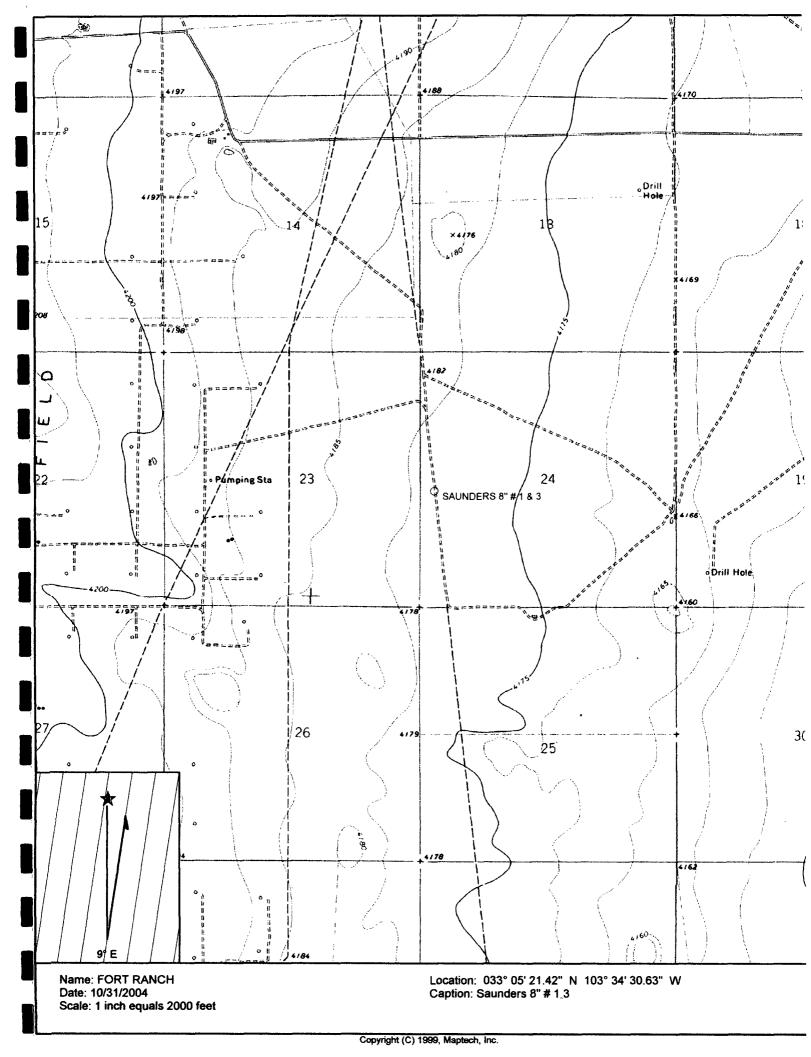
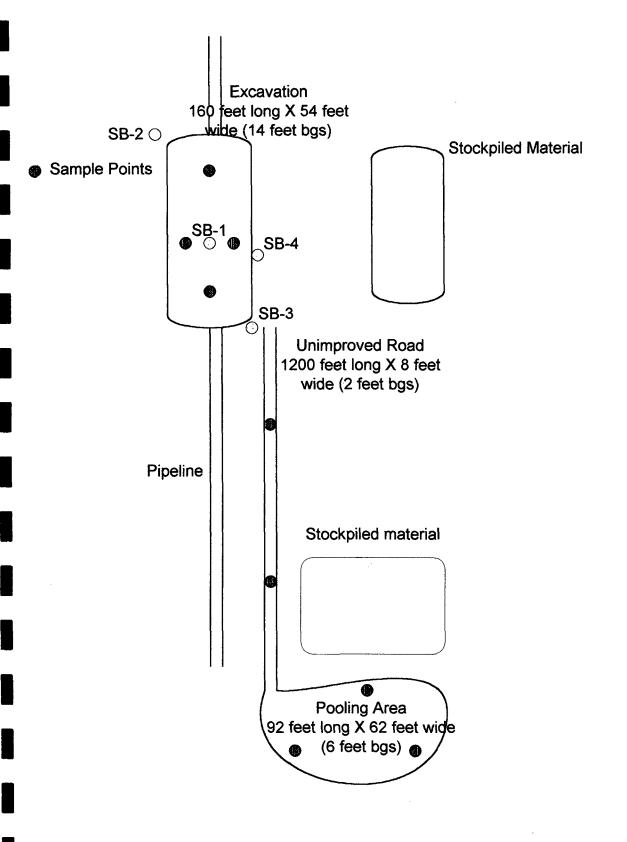


FIGURE 2

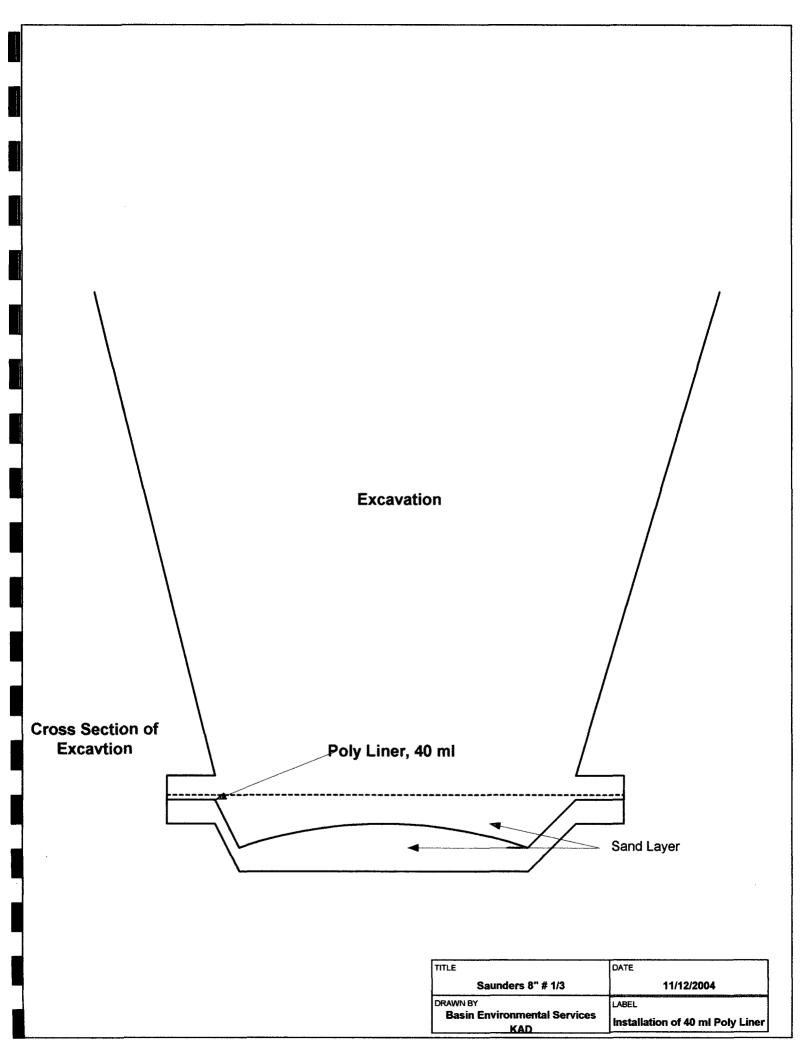
SITE MAP





LABEL	DATE					
Figure 2	10/28/2004					
TITLE	<u> </u>	DRAWN BY				
Site Map Saunders 8"	K. Dutt Basin Environme					

FIGURE 3 INSTALLATION OF 40-ml POLY LINER



APPENDICES

APPENDIX A

NEW MEXICO OFFICE OF THE STATE ENGINEER WATER WELL DATABASE REPORT

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Township: 14S	Range: 33E	Sections: 14	aya ya ya kanada aya maraya wa waxaa ka k	
NAD27 X:	Y:	Zone:	Search Radius:	a transition and debidence princip
County: F	Basin:	Num	nber: Su	ıffix:
Owner Name: (First)	(La	st) • All	○ Non-Domest	ic C Domestic
Well / Surf	ace Data Report	Avg Dep	th to Water Repor	t
	Wate	r Column Report		
	Clear Form	WATERS Menu	Help	
AVERAGE DEPTH	OF WATER REPO	RT 10/29/2004		

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
L	14S	33E 14				2	100	100	100

Record Count: 2

Townsh	nip: 14S	Range: 331	E Secti	ons: 26	draw, erfeld fir didd b erfdynn, wy air dwyfeidd	e Taran da		the colonial and
NAD27	X:	Y:	Zo	ne:	<u></u>	Search F	Radius:	and the second s
County:	<u>•</u>]	Basin:		_	Num	ber:	Suffi	x: [
Owner Name: (Fir	rst)		(Last)	All		⊂ Non-I	Domestic	○ Domestic
W	/ell / Sur	face Data Rep	oort	A	vg Dept	h to Wate	r Report	
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AVERAGE DEPTH OF WATER REPORT 10/29/2004

Record Count: 2

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Township: 148 Range: 33E Section	ns: 25						
NAD27 X: Y: Zon	e: Search Radius:						
County: Basin:	Number: Suffix:						
Owner Name: (First) (Last)	○ Non-Domestic ○ Domestic						
Well / Surface Data Report	Avg Depth to Water Report						
Water Colur	nn Report						
Clear Form WA	TERS Menu Help						
AVERAGE DEPTH OF WATER REPORT 10, Bsn Tws Rng Sec Zone X Y V No Records found, try again	/29/2004 (Depth Water in Feet) Wells Min Max Avg						

Township: 14	S Range: 33E	Sections: 24,13,23					
NAD27 X:	Y:	Zone:	Search Radius:				
County:	Basin:	Num	ber: Suffix:				
Owner Name: (First)	(Last	e All	○ Non-Domestic ○ Domestic				
Well / S	urface Data Report	Avg Dep	th to Water Report				
Water Column Report							
	Clear Form	WATERS Menu	Help				

AVERAGE DEPTH OF WATER REPORT 10/29/2004

								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
\mathbf{L}	14S	33E	13				1	80	80	80
L	14S	33E	23				2	58	100	79

Record Count: 3

Township: 14	S Range: 33E	Sections: 13	. di kacipangania ara ara ya		reconstruites and as the branches
NAD27 X:	Y: \	Zone:	<u> </u>	Search Radius	:
County:	Basin:		Numb	per: S	Suffix:
Owner Name: (First)	(La	e All		← Non-Domes	etic C Domestic
Well / Su	urface Data Report	Av	g Depti	h to Water Repo	ort
	Wate	rt			
·	Clear Form	WATERS Me	enu	Help	

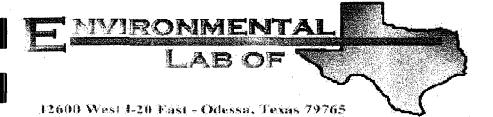
AVERAGE DEPTH OF WATER REPORT 10/29/2004

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
L	14S	33E 13				1	80	80	80

Record Count: 1

APPENDIX B

ENVIRONMENTAL LABORATORY OF TEXAS ANALYTICAL RESULTS



Analytical Report

Prepared for:

Ken Dutton

Basin Environmental Services
P.O. Box 301

Lovington, TX 88260

Project: Saunders 8 inch #1 Project Number: 2004-00174 Location: Lea County, NM

Lab Order Number: 4117013

Report Date: 09/26/04

Basin Environmental Services

P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pooling Area	4117013-01	Soil	09/15/04 11:10	09/17/04 14:15
North Unimproved Road	4117013-02	Soil	09/15/04 11:45	09/17/04 14:15
South Unimproved Road	4117013-03	Soil	09/15/04 11:20	09/17/04 14:15

Basin Environmental Services

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #1

Project Number: 2004-00174
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:03

Organics by GC Environmental Lab of Texas

					 				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pooling Area (4I17013-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	n	#	п	n	н	17	
Ethylbenzene	ND	0.0250	"	**		79	"		
Xylene (p/m)	ND	0.0250	n	**	**	π	**	н	
Xylene (o)	ND	0.0250	17	"	"		**	P	
Surrogate: a,a,a-Trifluorotoluene		95.4 %	80-1	20	"	н	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-1	20	,,	11	"	n	
Gasoline Range Organics C6-C12	137	10:0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	1920	10.0	•		,,	п	•	н	
Total Hydrocarbon C6-C35	2060	10.0	n	a	n		и	n	
Surrogate: 1-Chlorooctane		108 %	70-1	30	,	,,	n	"	
Surrogate: 1-Chlorooctadecane		159 %	70-1	30	"	rr .	Ħ	"	S-04
North Unimproved Road (4117013-02)	Soil								
Benzene	NĐ	0.0250	mg/kg dry	25	El42407	09/22/04	09/22/04	EPA 8021B	
Toluene	NĐ	0.0250		•	**	n	•	Ħ	
Ethylbenzene	J [0.0157]	0.0250	n	,,	*	*	"	11	j
Xylene (p/m)	0.0730	0.0250	**		n	п	11	**	
Xylene (o)	0.0534	0.0250	n	u	u	**	u	n	
Surrogate: a,a,a-Trifluorotoluene		95.9 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.4 %	80-1	20	,,	"	,,	"	
Gasoline Range Organics C6-C12	198	10.0	mg/kg dry	í	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	7360	10.0	,,	n	"	"	,,	n	
Total Hydrocarbon C6-C35	7560	10.0	11	44	Ħ	н	u	11	
Surrogate: 1-Chlorooctane		125 %	70-1	30	"		"	"	
Surrogate: 1-Chlorooctadecane		178.%	70-1	30	"	"	,,	"	S-04
South Unimproved Road (4117013-03)	Soil								
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	0.0257	0.0250	n	"	**	10	**	**	
Ethylbenzene	0.0438	0.0250	n	#	u	m .	10	п	
Xylene (p/m)	0.162	0.0250	"	n	"	**	u	Ħ	
Xylene (o)	0.0936	0.0250	н	u	n	•	я	Ħ	
Surrogate: a,a,a-Trifluorotoluene	***************************************	94.4 %	80-1	20	*	"	n	r r	
Surrogate: 4-Bromofluorobenzene		82.9 %	80-1	20	н	n	"	"	
Gasoline Range Organics C6-C12	90.7	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	3980	10,0	"	**	11	n	91	11	
Total Hydrocarbon C6-C35	4070	10.0	u	н	17	*	n	"	

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 #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Unimproved Road (4117013-03) Soil									
Surrogate: 1-Chlorooctane		121 %	70-1	30	EI41720	09/20/04	09/21/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		146 %	70-1	30	"	"	"	"	S-04

South Unimproved Road (4117013-03) Soil

99.0

P.O. Box 301

Analyte

% Solids

% Solids

% Solids

Lovington TX, 88260

Project: Saunders 8 inch #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

% calculation

09/21/04

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

%

Reporting Result Limit Units Dilution Batch Prepared Analyzed Method Notes Pooling Area (4117013-01) Soil 99.0 % EI42110 09/20/04 % calculation 09/21/04 North Unimproved Road (4117013-02) Soil % 99.0 1 EI42110 09/20/04 09/21/04 % calculation

EI42110

09/20/04

Project: Saunders 8 inch #1

Fax: (505) 396-1429

P.O. Box 301

Lovington TX, 88260

Project Number: 2004-00174 Project Manager: Ken Dutton

Reported: 09/26/04 11:03

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41720 - Solvent Extraction (GC)							_	,		
Blank (E141720-BLK1)				Prepared: (09/20/04 Aı	nalyzed: 09	/21/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	n							
Total Hydrocarbon C6-C35	ND -	10.0	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 As	nalyzed: 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	п							
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.6	70-130			
Surrogate: 1-Chlorooctadecane	36.1		n	50.0		72.2	70-130			
LCS (E141720-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	14	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 Ar	nalyzed: 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	41	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		n	500		110	80-120			
Total Hydrocarbon C6-C35	1010		и	1000		101	80-120			
Surrogate: 1-Chlorooctane	57.2		"	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	61.2		"	50.0		122	70-130			

P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41720 - Solvent Extraction (GC)										
Calibration Check (EI41720-CCV2)				Prepared: (09/20/04 A	nalyzed: 09	/21/04			
Gasoline Range Organics C6-C12	436		mg/kg	500		87.2	80-120			
Diesel Range Organics >C12-C35	583		н	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)	Sour	ce: 4117011	-06	Prepared &	ž 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	u	510	19.1	103	75-125			
Total Hydrocarbon C6-C35	971	10.0	n	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)	Sour	ce: 4117012	-05	Prepared: (09/20/04 A	nalyzed: 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	H	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)	Sour	ce: 4117011	-06	Prepared &	k 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	и	510	19.1	107	75-125	3.62	20	
Total Hydrocarbon C6-C35	1010	10.0	и	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 (E141720-MSD2)	Sour	ce: 4117012	-05	Prepared:	09/20/04 A	nalyzed: 09	/21/04			
Gasoline Rauge Organics C6-C12	460	10.0	mg/kg dry	515	ND	89.3	75-125	1.30	20	
Diesel Range Organies >C12-C35	540	10.0	"	515	6.50	104	75-125	0.00	20	
Total Hydrocarbon C6-C35	1000	10.0	51	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			

Lovington TX, 88260

P.O. Box 301

Project: Saunders 8 inch #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

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
Batch EI42407 - EPA 5030C (GC)						·				
Blank (EI42407-BLK1)				Prepared &	: Analyzed:	09/22/04				
Benzeue	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	u							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	n .							
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				
Benzeue	105		ug/kg	100		105	80-120			
Toluene	106		11	100		106	80-120			
Ethylbenzene	101		n	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: 0	19/22/04 Aı	nalyzed: 09	/23/04			
Benzene	105		ug/kg	100		105	80-120			
Toluene	106		U	100		106	80-120			
Ethylbenzene	101			100		101	80-120			
Xylene (p/m)	224		**	200		112	80-120			
Xylene (o)	104		R	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)	Sou	rce: 4117012-	05	Prepared: 0	19/22/04 Ai	nalyzed: 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		н	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	119			100		119	80-120			

Surrogate: 4-Bromofluorobenzene

98.1

80-120

100

98.1

Lovington TX, 88260

P.O. Box 301

Project: Saunders 8 inch #1

Project Number: 2004-00174

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:03

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EI42407 - EPA 5030C (GC)

Matrix Spike Dup (EI42407-MSD1)	Source: 4	Source: 4117012-05			nalyzed: 0	9/23/04		
Benzene	114	ug/kg	100	ND	114	80-120	5.41	20
Toluene	109	н	100	ND	109	80-120	1.85	20
Ethylbenzene	102	**	001	ND	102	80-120	0.976	20
Xylene (p/m)	237	16	200	ND	118	80-120	3.45	_20
Xylene (o)	105	TT .	100	ND	105	80-120	2.82	20
Surrogate: a,a,a-Trifluorotoluene	117	"	100		117	80-120		
Surrogate: 4-Bromofluorobenzene	95.1	n	100		95. I	80-120		

Project: Saunders 8 inch #1

Fax: (505) 396-1429

P.O. Box 301

Project Number: 2004-00174

Reported: 09/26/04 11:03

Lovington TX, 88260

Project Manager: Ken Dutton

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI42110 - % Solids										
Blank (EI42110-BLK1)				Prepared: (09/20/04 A	nalyzed: 09	/21/04			
% Solids	100		%							

Source: 4I17011-03

Duplicate (EI42110-DUP1)

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

0.00 20

Basin Environmental ServicesProject:Saunders 8 inch #1Fax: (505) 396-1429P.O. Box 301Project Number:2004-00174Reported:Lovington TX, 88260Project Manager:Ken Dutton09/26/04 11:03

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

eport Approved By:	Kaland K-Jumb	Date:	9/26/04	
eport Approved By:	Lacarie 1200-	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.

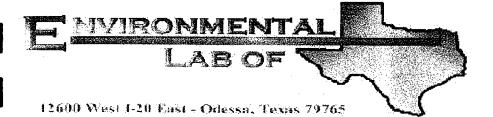
This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Project Mar Company Company Ad City/Sta	Name Basin Envicons drees: P.O. Bax 301 terzip: Louingfon n.m.		60										Pı	rojet ect L	1 #:		a	00	<u> 25</u>	<u>/-</u> _	00	8± 12 1+	4		
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₩1 ⁷ 0 ¹³ ₩2 # (lab use only)	FIELD CODE	2064 Date Sampled	Time Sampled	No. of Containers 76:25 C.S.						Office (Special)	Me Sone	irix 3	Char (appedit):	Cations (Ca., Mg. Ms. 10)	Axiona (Cl. 804, CO3, HCC3)	SAR/ESP/CEC	Meste: As Ag Ba Cd Cr Pb Hg Sa	- New Teach		MCI MCI MAN	YORW				RUSH TAT (Pre-Schodula
-O	Pooling ARD	15-SEP	DELL	1	×							X	12	4_		10 m		1	4	4	lacksquare				_ <u> X</u>
-02	North Unimproved Road		11:45	1	11						4-	\blacksquare			-			\dashv		⊬	+	\vdash	-	H	\$
-63	South - Unimproved Road		11:20	1	*	AU AU			Н			*	- 3	4	+	7.7			-	4	+	H	+	+	- -
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Special Instructions: Relinquished by: Relinquished by:	Email RESULTS TO KI DILLET BILL PAA Date Time 1500 04 0850 Date Time	Received by									Date		11 08	me 50	TO	mpe	relur	e Uj Col	pon i mme	ntaci Recel onts:	pt:				

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

lient: Basin Environments/				
ate/Time: <u>OF-17-04@ 1530</u>				
rder#: 나고디O()			Section 1	
		· · · · · · · · · · · · · · · · · · ·		
itials: コペヘ		21.		
Sample Receipt	t Checkli	st		·.
mperature of container/cooler?	(Yes	No	1,SC	
inning container/cooler in good condition?	(Yes)	No		.
istody Seals intact on shipping container/cooler/	Yes	No.	Not present	4
istody Seals intact on sample bottles?	Yes	No	(Not present)	-
hain of custody present?	Yes	No		
	/Yes	No		4
hain of Custody signed when relinquished and received		No		-
hain of custody agrees with sample label(s)	Ves.	No		
autologic takata lagihta and intact?	(Yes)	No		-
ample Matrix and properties same as on chain of custody:	Yes	No		.
amples in proper container/bottle?		No		4
amples properly preserved?		No	The second section of the	pro-
amnle hottles intact?	(Yes)	No		-
reservations documented on Chain of Custody?	(Tea)	No		
ontainers documented on Chain of Custody /	(Aeta)	No	The second secon	- Alexander
ufficient sample amount for indicated test?	(Yes)	No		-
		No	1	
ull samples received within sufficient hold time?		1	Mat Conficable	
All samples received within sufficient hold time? /OC samples have zero headspace?	Ces	No	Not Applicable	
ull samples received within sufficient hold time?		No	Not Applicable	
All samples received within sufficient hold time? /OC samples have zero headspace? Other observations:	l Zes		Not Applicable	
All samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu	l Zes			
Uther observations: Variance Docu Contact Person:Date/Time:	l Zes		Not Applicable Contacted by	
Uther observations: Variance Docu Contact Person:Date/Time:	l Zes			
ult samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu	l Zes			
Uther observations: Variance Docu Contact Person:Date/Time:	l Zes			
Uther observations: Variance Docu Contact Person:Date/Time:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person:Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
Uther observations: Variance Docu Contact Person:Date/Time:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			
It samples received within sufficient hold time? OC samples have zero headspace? Other observations: Variance Docu Contact Person: Date/Time: Regarding:	l Zes			



Analytical Report

Prepared for:

Ken Dutton

Basin Environmental Services
P.O. Box 301

Lovington, TX 88260

Project: Saunders 8 inch #3 Project Number: 2004-00182 Location: Lea County, NM

Lab Order Number: 4117011

Report Date: 09/26/04

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182 Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-I-10*	4117011-01	Soil	09/14/04 10:16	09/17/04 14:15
SB-1-20'	4117011-02	Soil ⁻	09/14/04 10:28	09/17/04 14:15
SB-1-30'	4117011-03	Soil	09/14/04 10:42	09/17/04 14:15
SB-1-40'	4117011-04	Soil	09/14/04 11:00	09/17/04 14:15
SB-1-50 ^t	4117011-05	Soil	09/14/04 11:30	09/17/04 14:15
SB-1-65'	4147011-06	Soil	09/14/04 11:58	09/17/04 14:15
SB-2-5'	4117011-07	Soil	09/14/04 12:40	09/17/04 14:15
SB-2-15'	4117011-08	Soil	09/14/04 12:46	09/17/04 14:15
SB-2-45'	4117011-09	Soil	09/14/04 13:14	09/17/04 14:15
SB-2-70'	4117011-10	Soil	09/14/04 13:49	09/17/04 14:15
SB-3-5 ^t	4117011-11	Soil	09/14/04 14:02	09/17/04 14:15
SB-3-15'	4117011-12	Soil	09/14/04 14:09	09/17/04 14:15
SB-3-45!	4117011-13	Soil	09/14/04 14:48	09/17/04 14:15
SB-3-70'	4117011-14	Soil	09/14/04 15:30	09/17/04 14:15
SB-4-5'	4117011-15	Soil	09/14/04 15:45	09/17/04 14:15
SB-4-15'	4117011-16	Soil	09/14/04 15:54	09/17/04 14:15
SB-4-45'	4I1701·1=17	Soil	09/14/04 16:46	09/17/04 14:15
SB-4-70'	4117011-18	Soil ·	09/14/04 17:41	09/17/04 14:15

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:

Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

		ERVITOR							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1-10' (4117011-01) Soil		 							
Benzene	0.316	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Tóluene	5.12	0.0250	н	,,	#	"	u	#	
Ethylbenzene	3.36	0.0250	**	"	*	n	**	n	
Xylene (p/m)	14.8	0.0250	*	11	9	•	n	11	
Xyfene (o)	7.56	0.0250	"	"	*	H	n	**	
Surrogate: a,a,a-Trifluorotoluene		139 %	80-1	20	,	"	n	"	S-04
Surrogate: 4-Bromofluorobenzene		115%	80-1	20	,	"	n	"	
Gasoline Range Organics C6-C12	2210	10.0	mg/kg dry	1	EI41719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	7210	10.0	м	"	**	**		н	
Total Hydrocarbon C6-C35	9420	10.0	17	μ	w	Ħ	n	н	
Surrogate: 1-Chlorooctane		118 %	70-1	30	,,	n	,	"	,,
Surrogate: 1-Chlorooctadecane		127%	70-1	30	"	n	"	,	
SB-1-20' (4117011-02) Soil									
Benzene	0.338	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	5.18	0.0250	**	H	"	*	w	11	
Ethylbenzene	4.97	0.0250	"	n	n	*		"	
Xylene (p/m)	16.4	0.0250	н	11	n	n	15	**	
Xylene (o)	8.54	0.0250	н		*		"	11	
Surrogate: a,a,a-Trifluorotoluene		132 %	80-1	20	,	н	"	"	S-04
Surrogate: 4-Bromofluorobenzene		110%	80-1	20	"	"	"	•	
Gasoline Range Organics C6-C12	3050	10.0	mg/kg dry	1	E141719	09/17/04	09/20/04	EPA. 8015M	
Diesel Range Organics >C12-C35	8690	10.0	11	**	u	**	**	11	
Total Hydrocarbon C6-C35	11700	10.0	ħ	n	11		11	"	
Surrogate: 1-Chlorooctane		138 %.	70-1	30	н	"	,,	"	S-04
Surrogate: 1-Chlorooctadecane		180 %	70-1	30	n	"	n	n	S-04
SB-1-30' (4I17011-03) Soil									
Benzene	0.135	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	2.60	0.0250	11	ų	n	**	16	u	
Ethylbenzene	2.95	0.0250	17	"	11	н	**	H	
Xylene (p/m)	10.9	0.0250	**	"		n	**	н	
Xylene (0)	5.47	0.0250	**	н	#		14	11	
Swrogate: a,a,a-Trifluorotoluene		185 %	80-1	20	17	"	n	"	S-04
Surrogate: 4-Bromofluorobenzene		96.3 %	80-1	20	*	"	n	••	
Gasoline Range Organics C6-C12	2170	10.0	mg/kg dry	1	EI41720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	7370	10.0	и	н	n	n	n	n	
Total Hydrocarbon C6-C35	9540	10.0	H	н	"	н	**		

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P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182 Project Manager: Ken Dutton Fax: (505) 396-1429

Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1-30' (4117011-03) Soil									
Surrogate: 1-Chlorooctane		156 %	70-i	30	E141720	09/20/04	09/20/04	EPA 8015M	S-0-
Surrogate: 1-Chlorooctadecane		143 %	70-1	30	,	"	n	tr.	S-0-
SB-1-40' (4117011-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	n	11	H	и	**	w	
Ethylbenzene	ND	0.0250	"	**	**	19	11	10	
Xylene (p/m)	ND	0.0250	11	"	,	*	"	II .	
Xylenc (o)	ND	0.0250	n	19	n	19	16	**	
Surrogate: a,a,a-Trifluorotoluene		95.0 %	80-1	20	"	" ·	"	n	
Surrogate: 4-Bromofluorobenzene		82.9 %	80-1	20	"	"	,,	,,	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	815	10.0	11	**				n	
Total Hydrocarbon C6-C35	815	10.0	n		n	•	11	н	
Surrogate: 1-Chlorooctane		116%	70-1	30	п	"	n	n	
Surrogate: 1-Chlorooctadecane		125 %	70-1	30	и	"	"	"	
SB-1-50' (4117011-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	**	**		*		*	
Ethylbenzene	ND	0.0250	**	н		u		17	
Xylene (p/m)	0.0503	0.0250	**	"	4	tt		n	
Xylene (o)	ND	0.0250	15		**	"	н	н	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	u	u	"	n	
Surrogate: 4-Bromofluorobenzene		83.7 %	80-1	20	"	n	#	n	
Gasoline Range Organics C6-C12	19.7	10.0	mg/kg dry	1	£141720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	250	10.0	n	•	"	ıt	11	"	
Total Hydrocarbon C6-C35	270	10.0	11	"	. 11	*	и	п	
Surrogate: 1-Chlorooctane		100 %	70-1	30	"	u u	,,	"	
Surrogate: 1-Chlorooctadecane		114%	70-1	30	n	u	,,	n	

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

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Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1-65' (4117011-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	n	"	**	**	u	н	
Ethylbenzene	ND	0.0250	n		15	n	n	"	
Xylene (p/m)	ND	0.0250	n	"	"	n	0	n	
Xylene (o)	ND	0,0250	11	n	"	*	n	11	
Surrogate: a,a,a-Trifluorotoluene		98.3 %	80-1	20	"	н	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E141720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	19.1	10.0	n	**	n	*	n	n	
Total Hydrocarbon C6-C35	19.1	10.0	n	19	ŧr	N		95	
Surrogate: I-Chlorooctane		102 %	70-1	30	,,	"	"	7	
Surrogate: 1-Chlorooctadecane		103 %	70-1	30	н	"	"	H	
SB-2-5' (4117011-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	n	н	*	19	11	11	
Ethylbenzene	ND	0.0250	n	н	н	**	11	**	
Xylene (p/m)	ND	0.0250	"		н	n	11	**	
Xylene (o)	ND	0.0250	19		*	n	16	**	
Surrogate: a,a,a-Trifluorotoluene		98.7 %	80-1	20	*	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-1	20		n	"	"	
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	J [9.17]	10.0	"	"	n	**	"	**	
Total Hydrocarbon C6-C35	ND	10.0	11	19	**	Ħ	14	u	
Surrogate: 1-Chlorooctane		112%	70-1	30	п	и	"	n	
Surrogate: 1-Chlorooctadecane		125 %	70-1	30	•	n	#	Ħ	
SB-2-15' (4117011-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	*	11	H	**	"	H.	
Ethylbenzene	ND	0.0250	**	**		m	u	H.	
Xylene (p/m)	ND	0.0250	*	**	N	n	11	н	
Xylene (o)	ND	0.0250	*	**	**	**	H	"	
Surrogate: a,a,a-Trifluorotoluene		99.4 %	80-1	20	-	"	"	n	
Surrogate: 4-Bromofluorobenzene		82.3 %	80-1	20	*	u	π	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	n	н	n	n	Nt.	
Total Hydrocarbon C6-C35	ND	10.0	**	**	**	н	n	**	

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P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-2-15' (4117011-08) Soil									
Surrogate: 1-Chlorooctane		94.4 %	70-	130	E141720	09/20/04	09/20/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		73.2 %	70-	130	n	и	*	n	
SB-2-45' (4117011-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	н	n	н	и	14	18	
Ethylbenzene	ND	0.0250	**	"	**	"	**	**	
Xylenc (p/m)	ND	0.0250	**	н	н	"	**	o	
Xylene (o)	ND	0.0250	"	*	**	n	н	**	
Surrogate: a,a,a-Trifluorotoluene		101 %	80	120	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		82.7 %	80-	120	n	"	n	,	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1 .	El41720	09/20/04	09/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	16	n	*	n	n	17	
Total Hydrocarbon C6-C35	ND	10.0	н	n	Ħ	н	и	n	
Surrogate: 1-Chlorooctane		115%	70	130	n	"	"	η	
Surrogate: 1-Chlorooctadecane		128 %	70-	130	#	и	n	,	
SB-2-70' (4117011-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	н	19	**	n	H	11	
Ethylbenzene	ND	0.0250	н	11	*	n	**	**	
Xylene (p/m)	ND	0.0250	н	n	н	н	н	u	
Xylene (o)	ND	0.0250	н	n	**	n	n	u	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	**	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.6 %	80-	120	n	n	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	h		**	n	"	**	
Total Hydrocarbon C6-C35	ND	10.0	19	н	**	15	15	H	
Surrogate: 1-Chlorooctane		95.6 %	70-,	130	н	n	"	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-	130	"	и	"	n	

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3-5' (4117011-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	*	11	"	n	"	**	
Ethylbenzene	ND	0.0250	•	*	"	n	"	н	
Xylene (p/m)	ND	0.0250	**	**	*	19		n	
Xylene (o)	ND	0.0250	11	•		n	**	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-1	20	n	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41720	09/20/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	"	"	n	11	"	
Total Hydrocarbon C6-C35	ND	10.0	11	н	**		**	rt	
Surrogate: 1-Chlorooctane		103 %	70-1	30	п	"	"	"	
Surrogate: 1-Chlorooctadecane		72.6 %	70-1	30	**	"	,	n	
SB-3-15' (4I17011-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	11	14	R	н	11	n	
Ethylbenzene	ND	0.0250	н	"	er	•	н	v	
Xylene (p/m)	ND	0.0250	11	**	**	•	**	*	
Xylene (o)	ND	0.0250	п.		н	19	0	it	
Surrogate: a,a,a-Trifluorotoluene		99.3 %	80-1	20	*	n	"	**	
Surrogate: 4-Bromofluorobenzene		80.4 %	80-1	20	*	"	*	"	
Gasoline Range Organics C6-C12	· ND	10.0	mg/kg dry	t	EI41720	09/20/04	09/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"		n	**	*	
Total Hydrocarbon C6-C35	ND	10.0	n	*		н	*	*	
Surrogate: 1-Chlorooctane		103 %	70-1	30	а	п	"	Ħ	
Surrogate: 1-Chlorooctadecane		126 %	70-1	30	•	"	n	Ħ	
SB-3-45' (4117011-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	11	"	"	*	16	n	
Ethylbenzene	ND	0.0250	u	n	*	*	"	Ħ	
Xylene (p/m)	ND	0.0250	**	n	n	**	н		
Xylene (o)	ND	0.0250	10	**		*	"	tt .	
Surrogate: a,a,a-Trifluorotoluene		99.4 %	80-1	120	*	"	"	н	
Surrogate: 4-Bromofluorobenzene		80.7 %	80-1	120	*	u	"	n	
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	ND	10.0	Ħ	и	n	н	u	н	
Total Hydrocarbon C6-C35	ND	10.0	**		н	n	и	n	

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P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
09/26/04 11:01

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-3-45' (4117011-13) Soil									
Surrogate: 1-Chlorooctane		94.4 %	70-	130	E141720	09/20/04	09/22/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		101 %	70	130	"	н	**	"	
SB-3-70' (4117011-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	n		н	**	н	11	
Ethylbenzene	ND	0.0250	11	n	н	**	is	If	
Xylene (p/m)	ND	0.0250	n	"		11	**	U	
Xylene (o)	ND	0.0250	11	n	"	n	"		
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	N	u	,	77	
Surrogate: 4-Bromofluorobenzene		81.3 %	80-	120	n	"	,,	n	
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	ND	10.0	n	*	,	n	"	#	
Total Hydrocarbon C6-C35	ND	10.0	**	*	**	11	и	17	
Surrogate: 1-Chlorooctane	-	102 %	70-	130	п	"	"	"	
Surrogate: 1-Chlorooctadecane		110%	70-	130	n	"	*	"	
SB-4-5' (4117011-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	ıt	11	н		n	*	
Ethylbenzene	ND	0.0250	14	н	**	10	"	H	
Xylene (p/m)	ND	0.0250	*	•	**				
Xylene (o)	ND	0.0250	n	u	п	n	н	**	
Surrogate: a,a,a-Trifluorotoluene		88.8 %	80	120	и	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.7 %	80	120	~	"	"	n	
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	"	n	н	11-	H	H,	
Total Hydrocarbon C6-C35	ND	10.0		*	11	*	18		
Surrogate: 1-Chlorooctane		97.6 %	70-	130	н	"	"	"	
Surrogate: 1-Chlorooctadecane		75.2 %	70-	130	"	п	"	"	

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Project Manager: Ken Dutton

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Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

			mentai L						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4-15' (4117011-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	**	*	"	n	u	Ħ	
Ethylbenzene	ND	0.0250	11		*	le .	"	**	
Xylene (p/m)	ND	0.0250	n	19	н	**	**	u	
Xylene (o)	ND	0.0250	н			H	**	H .	
Surrogate: a,a,a-Trifluorotoluene		92.2 %	80-1	20	"	rr rr	r	,	
Surrogate: 4-Bromofluorobenzene		81.4%	80-1	20	"	u	. "	,,	
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	"	10	**	*	"		
Total Hydrocarbon C6-C35	ND	10.0	n	*	*	n	u	п	
Surrogate: 1-Chlorooctane		102 %	70-1	30	n	"	н	η	
Surrogate: 1-Chlorooctadecane	,	71.8 %	70-1	30	v	u	n	π	
SB-4-45' (4117011-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	11	n	**	n	"	n	
Ethylbenzene	ND	0.0250	11	**	п	וו	i+		
Xylene (p/m)	ND	0.0250	11	**	*	n	n	*	
Xylene (o)	ND	0.0250	19	•	n	n	u	•	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-1	20	*	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.7 %	80-1	20	#	"	"	,,	
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	19	11	u	n	**	"	
Total Hydrocarbon C6-C35	ND	10.0	n	11	**	n	и	**	
Surrogate: 1-Chlorooctane		101 %	70-1	30	#	,,	,,	*	
Surrogate: 1-Chlorooctadecane		70.2 %	70-1	30	11	n	"	"	
SB-4-70' (4117011-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E142407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	**	**	14	н	и	**	
Ethylbenzene	ND	0.0250	11	п	н	#	"	n	
Xylene (p/m)	ND	0.0250	**	**	**	**	н	**	
Xylene (o)	ND	0.0250	и	н	Ħ	н	и	"	
Surrogate: a,a,a-Trifluorotoluene		99.7%	80-1	20	*	ti	n	n	
Surrogate: 4-Bromofluorobenzene		81.1 %	80-1	20	W	u	#	ıi	
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	n		*	"	n	H	
Total Hydrocarbon C6-C35	ND	10.0	11	*	**	11		IF.	

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.

P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #3

Project Number: 2004-00182 Project Manager: Ken Dutton Fax: (505) 396-1429

Reported: 09/26/04 11:01

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4-70' (4117011-18) Soil							· · · · · · · · · · · · · · · · · · ·	 	
Surrogate: 1-Chlorooctane		100 %	70-	130	E141720	09/20/04	09/21/04	EP.4 8015M	
Surrogate: 1-Chlorooctadecane		70.6 %	70-	130	"	n	"	*	

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182 Project Manager: Ken Dutton Fax: (505) 396-1429

Reported: 09/26/04 11:01

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

		Reporting					• • • • • • • • • • • • • • • • • • • •		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1-10' (4117011-01) Soil									
% Solids	92.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-20' (4I17011-02) Soil									
% Solids	95.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-30' (4I17011-03) Soil									
% Solids	93.0		%	i	EI42110	09/20/04	09/21/04	% calculation	
SB-1-40' (4117011-04) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-50' (4117011-05) Soil									
% Solids	83.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-1-65' (4117011-06) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-2-5' (4I17011-07) Soil									
% Solids	99.0		%	1	EJ42110	09/20/04	09/21/04	% calculation	
SB-2-15' (4117011-08) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-2-45' (4117011-09) Soil			<u> </u>	· · · · · · · · · · · · · · · · · · ·					
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-2-70' (4117011-10) Soil	··-					,			
% Solids	99.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-3-5' (4I17011-11) Soil									
% Solids	99.0		%	1	EI42110	09/20/04	09/21/04	% calculation	

P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #3

Project Number: 2004-00182

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:01

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3-15' (4117011-12) Soil									
% Solids	99.0		%	i	EI42110	09/20/04	09/21/04	% calculation	
SB-3-45' (4117011-13) Soil					<u>.</u>				
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-3-70' (4117011-14) Soil					_				
% Solids	97.0		%	1	E142110	09/20/04	09/21/04	% calculation	
SB-4-5' (4117011-15) Soil									
% Solids	99.0		%	ı	EI42110	09/20/04	09/21/04	% calculation	
SB-4-15' (4117011-16) Soil						·			
% Solids	100		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-4-45' (4117011-17) Soil									
% Solids	98.0		%	1	EI42110	09/20/04	09/21/04	% calculation	
SB-4-70' (4117011-18) Soil									
% Solids	98.0		%	t	EI42110	09/20/04	09/21/04	% calculation	

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: 2004-00182

Reported: 09/26/04 11:01

Lovington TX, 88260

Project Manager: Ken Dutton

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41719 - Solvent Extraction (GC)										
Blank (EI41719-BLK1)		,		Prepared: 0	09/17/04 A	nalyzed: 09	/19/04			
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	44.2		mg/kg	50.0		88.4	70-130			
Surrogate: 1-Chlorooctadecane	41.8		"	50.0		83.6	70-130			
Blank (EI41719-BLK2)				Prepared: 0	09/17/04 At	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	10							
Total Hydrocarbon C6-C35	ND	10.0	,,							
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	70-130		, ,	
Surrogate: 1-Chlorooctadecane	36.3		"	50.0		72.6	70-130			
LCS (E141719-BS1)				Prepared: 0	09/17/04 Ar	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	426	10.0	mg/kg wet	500		85.2	75-125			
Diesel Range Organics >C12-C35	498	10.0	н	500		99.6	75-125			
Total Hydrocarbon C6-C35	924	10.0	н	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	56.4		"	50.0		113	70-130			
LCS (EI41719-BS2)				Prepared: 0)9/17/ 04 Aı	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	415	10.0	mg/kg wet	500		83.0	75-125			
Diesel Range Organics >C12-C35	505	10.0	14	500		101	75-125			
Total Hydrocarbon C6-C35	920	10.0	**	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	44.3		"	50.0		88.6	70-130			
Calibration Check (E141719-CCV1)				Prepared: ()9/17/04 Ai	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	945		**	1000		94.5	80-120			
Surrogate: 1-Chlorooctane	52.0		*	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	47.9		"	50.0		95.8	70-130			

P.O. Box 301

Lovington TX, 88260

Project: Saunders 8 inch #3

Project Number: 2004-00182 Project Manager: Ken Dutton Fax: (505) 396-1429

Reported: 09/26/04 11:01

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41719 - Solvent Extraction (GC)									. <u> </u>	
Calibration Check (EI41719-CCV2)				Prepared: (09/17/ 04 A	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	427		mg/kg	500		85.4	80-120			
Diesel Range Organics >C12-C35	483		**	500		96.6	80-120			
Total Hydrocarbon C6-C35	910		n	1000		91.0	80-120			
Surrogate: 1-Chlorooctane	51.6		<i>"</i>	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	47.0		"	50.0		94.0	70-130			
Matrix Spike (EI41719-MS1)	Source	ce: 4I16003-	-01	Prepared: (09/1 7/04 A	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	469	10.0	mg/kg dry	521	ND	90.0	75-125			
Diesel Range Organics >C12-C35	555	10.0		521	ND	107	75-125			
Total Hydrocarbon C6-C35	1020	10.0	n	1040	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	70-130	-		
Surrogate: 1-Chlorooctadecane	52.5		**	50.0		105	70-130			
Matrix Spike (EI41719-MS2)	Sour	ce: 4117004	-13	Prepared: (09/17/04 A	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	506	10.0	mg/kg dry	549	ND	92.2	75-125			
Diesel Range Organics >C12-C35	627	10.0		549	15.3	111	75-125			
Total Hydrocarbon C6-C35	1130	10.0	"	1100	15.3	101	75-125			
Surrogate: 1-Chlorooctane	55. I		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	54.7		"	50,0		109	70-130			
Matrix Spike Dup (EI41719-MSD1)	Sour	ce: 4I16003	-01	Prepared:	09/1 7/04 A	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	478	10.0	mg/kg dry	521	ND	91.7	75-125	1.90	20	
Diesel Range Organics >C12-C35	577	10.0	"	521	ND	111	75-125	3.89	20	
Total Hydrocarbon C6-C35	1060	10.0	n	1040	ND	102	75-125	3.85	20	
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	53.8		•	50.0		108	70-130			
Matrix Spike Dup (EI41719-MSD2)	Sour	ce: 4117004	-13	Prepared: (09/17/04 A	nalyzed: 09	/19/04			
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	549	ND	95.1	75-125	3.11	20	
Diesel Range Organics >C12-C35	630	10.0	*1	549	15.3	112	75-125	0.477	20	
Total Hydrocarbon C6-C35	1150	10.0	u	1100	15.3	103	75-125	1.75	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	57.5		"	50.0		115	70-130			

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: 2004-00182

Reported: 09/26/04 11:01

Lovington TX, 88260

Project Manager: Ken Dutton

		Reporting		Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41720 - Solvent Extraction (GC)										
Blank (EI41720-BLK1)				Prepared: (09/20/04 Ar	alyzed: 09	/21/04			
Gasoline Rauge 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: (9/20/04 An	alyzed: 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 (EI41726-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	0.01	"	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: 0	9/20/04 An	alyzcd: 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	11	500		94.0	75-125			
Total Hydrocarbon C6-C35	908	10.0	11	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 (E141720-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		11	1000		101	80-120			
Surrogate: 1-Chlorooctane	57.2		п	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	61.2		n	50.0		122	70-130			

P.O. Box 301 Lovington TX, 88260 Project: Saunders 8 inch #3

Project Number: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 09/26/04 11:01

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41720 - Solvent Extraction (GC)			***					,		
Calibration Check (EI41720-CCV2)				Prepared: (09/20/04 A	nalyzed: 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		н	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)	Son	rce: 4117011	-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	н	510	19.1	103	75-125			
Total Hydrocarbon C6-C35	971	10.0	н	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)	Sou	rce: 4117012-	-05	Prepared: 0	9/20/04 A	nalyzed: 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	n	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)	Sou	rce: 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	n	510	19.1	107	75-125	3.62	20	
Total Hydrocarbon C6-C35	1010	10.0	11	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)	Sou	rce: 4117012-	-05	Prepared: 0	09/20/04 A	nalyzed: 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 Organies >C12-C35	540	10.0	н	515	6.50	104	75-125	0.00	20	
Total Hydrocarbon C6-C35	1000	10.0	h	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			

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: 2004-00182 Project Manager: Ken Dutton Reported: 09/26/04 11:01

Lovington TX, 88260

Propert & Analyzed: 09/21/04			Reporting		Spike	Source		%REC		RPD	
Salank (El42206-BLK1)	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
ND	Batch EI42206 - EPA 5030C (GC)										
Solution ND	Blank (EI42206-BLK1)				Prepared &	: Analyzed:	: 09/21/04				
Solution N.D. 0.0250	Benzene	ND	0.0250	mg/kg wet							
ND 0.0250	Tolucne	ND	0.0250	"							
ND 0.0250	Ethylbenzene	ND	0.0250	**							
No	Xylene (p/m)	ND	0.0250	u							
Prepared & Analyzed: 09/21/04 Security	Xylene (o)	ND	0.0250	ti .							
Prepared & Analyzed: 09/21/04 Prepared & Analyzed: 09/21/0	Surrogate: a,a,a-Trifluorotoluene	95.1		ug/kg	100		95.1	80-120			
Senzene 97.6 ug/kg 100 97.6 80-120 100 100 100	Surrogate: 4-Bromofluorobenzene	88.0		"	100		88.0	80-120			
100	LCS (EI42206-BS1)				Prepared &	Analyzed:	09/21/04				
Subspikenzene 97.7 " 100 97.7 80-120 Skylene (p/m) 219 " 200 110 80-120 Skylene (p/m) 104 " 100 104 80-120 Skylene (p/m) 104 " 100 111 80-120 Skylene (o) 104 " 100 104 80-120 Skylene (o) 104 " 100 104 80-120 Skylene (o) 104 80-120 Skylene (o) 104 80-120 Skylene (o) 104 80-120 Skylene (o) 105 Skylene (o) 106 Skylene (o) 107 80-120 Skylene (o) 108 80-120 Skylene (o) 108 80-120 Skylene (o) 109 80-120 Skylene (o) 109 80-120 Skylene (o) 100 80-120 Skylene (o)	Benzene	97.6		ug/kg	100		97.6	80-120			
Section Sect	Toluene	100		,,	100		100	80-120			
Sylene (p/m)	Ethylbenzene	97.7		v	100		97.7	80-120			
Service (b) 104 100 101 80-120 101 100 101 80-120 101 101 100 101 80-120 101 101 100 101 80-120 101 10	Xylene (p/m)	219		"	200		110	80-120			
Prepared & Analyzed: 09/21/04 Prepared & Onlyzed: 09/21/04 Prepared	Xylene (o)	104		н	100		104	80-120			
Prepared & Analyzed: 09/21/04	Surrogate: a,a,a-Trifluorotoluene	111		#	. 100	,	111	80-120			
108 ug/kg 100 108 80-120	Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			
Toluene 107 " 100 107 80-120 109 109 109 109 109 109 109 109 109 10	Calibration Check (EI42206-CCV1)				Prepared &	Analyzed:	09/21/04				
Sulylbenzene 94.1 " 100 94.1 80-120 (Vene (p/m) 208 " 200 104 80-120 (Vene (o) 99.5 " 100 99.5 80-120 (Vene (o) 99.5 " 100 99.5 80-120 (Vene (a) 99.5 " 100 85.5 80-120 (Vene (a) 99.5 " 100 85.5 80-120 (Vene (a) 85.5 " 100 85.5 80-120 (Vene (a) 85.5 " 100 85.5 80-120 (Vene (a) 85.5 " 100 ND 100 80-120 (Vene (a)	Benzene	108		ug/kg	100		108	80-120			
Scylene (p/m) 208 " 200 104 80-120	Toluene	107			100		107	80-120			
Cylene (o) 99.5 " 100 99.5 80-120 Surrogate: a,a,a-Trifluorotoluene 118 " 100 118 80-120 Matrix Spike (E142206-MS1) Source: 4117011-12 Prepared: 09/21/04 Analyzed: 09/22/04 Matrix Spike (E142206-MS1) Source: 4117011-12 Prepared: 09/21/04 Analyzed: 09/22/04 Source 100 ug/kg 100 ND 100 80-120 Soluene 103 " 100 ND 103 80-120 Stylene (p/m) 226 " 200 ND 113 80-120 Sylene (o) 107 " 100 ND 107 80-120 Surrogate: a,a,a-Trifluorotoluene 120 " 100 ND 107 80-120	Ethylbenzene	94.1			100		94.1	80-120			
Agriculture (b) 97.5 100 77.5 80-120 118 80-	Xylene (p/m)	208		**	200		104	80-120			
Matrix Spike (E142206-MS1) Source: 4117011-12 Prepared: 09/21/04 Analyzed: 09/22/04 Senzene 100 ug/kg 100 ND 100 80-120 Sulvivene 101 100 ND 101 80-120 Sulvivene 101 100 ND 101 80-120 Sulvivene Sulvivene 101 100 ND 101 80-120 Sulvivene Sulviven	Xylene (o)	99.5		"	100		99.5	80-120			
Matrix Spike (E142206-MS1) Source: 4117011-12 Prepared: 09/21/04 Analyzed: 09/22/04 Senzene 100 ug/kg 100 ND 100 80-120 Schylbenzene 101 " 100 ND 101 80-120 Schylbenzene (ylene (p/m) 226 " 200 ND 113 80-120 (ylene (o) 107 " 100 ND 107 80-120 (ylene (a) ND 107 80-120 (ylene (a) ND 107 80-120 (ylene (a) ND 108 80-120 (ylene (a) ND 109 ND 100 ND 100 ND 100 ND 100 ND 100 80-120 (ylene (a) (ylen	Surrogate: a,a,a-Trifluorotoluene	. 118		*	100		118	80-120			
Benzene 100 ug/kg 100 ND 100 80-120 Coluene 103 " 100 ND 103 80-120 Sthylbenzene 101 " 100 ND 101 80-120 Kylene (p/m) 226 " 200 ND 113 80-120 Kylene (o) 107 " 100 ND 107 80-120 Surrogate: a,a,a-Trifluorotoluene 120 " 100 ND 120 80-120	Surrogate: 4-Bromofluorobenzene	85.5		"	100		85.5	80-120			
Benzene 100 ug/kg 100 ND 100 80-120 Coluene 103 " 100 ND 103 80-120 Sthylbenzene 101 " 100 ND 101 80-120 Kylene (p/m) 226 " 200 ND 113 80-120 Kylene (o) 107 " 100 ND 107 80-120 Surrogate: a,a,a-Trifluorotoluene 120 " 100 ND 120 80-120	Matrix Spike (EI42206-MS1)	Sou	rce: 4117011-	-12	Prepared: 0	9/21/04 Ai	nalyzed: 09	/22/04			
Sthylbenzene 101 " 100 ND 101 80-120 (Sylene (p/m)) 226 " 200 ND 113 80-120 (Sylene (o)) 107 " 100 ND 107 80-120 (Sylene (a, a, a-Trifluorotoluene 120 " 100 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 " 100 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 " 100 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 " 100 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 " 100 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 ND 120 80-120 (Sylene (a, a, a-Trifluorotoluene 120 ND 120 ND 120 ND 120 ND 120 (Sylene (a, a, a-Trifluorotoluene 120 ND	Benzene	100		ug/kg	100	ND	100	80-120			
Schrybenzene 101 100 ND 101 80-120 Cylene (p/m) 226 " 200 ND 113 80-120 Cylene (o) 107 " 100 ND 107 80-120 Furrogate: a,a,a-Trifluorotoluene 120 " 100 120 80-120	Toluene	103		"	100	ND	103	80-120			
(ylene (o) 107 " 100 ND 107 80-120 (urrogate: a,a,a-Trifluorotoluene 120 " 100 120 80-120	Ethylbenzene	101		11	100	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene 120 " 100 ND 107 80-120	Xylene (p/m)	226		н	200	ND	113	80-120			
urrogate: a,a,a-1 rijiuorototuene 120 100 120 00-120	Xylene (o)	107		•	100	ND	107	80-120			
06.0 " 100 06.0 90.130	Surrogate: a,a,a-Trifluorotoluene	120		п	100		120	80-120			
urrogaie: 4-bromojiioronenzene 90.9 100 90.9 80-120	Surrogate: 4-Bromofluorobenzene	96.9		"	100		96.9	80-120			

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: 2004-00182

Reported: 09/26/04 11:01

Lovington TX, 88260

Project Manager: Ken Dutton

Organics by GC - Quality Control **Environmental Lab of Texas**

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

Batch EI42206 - EPA 5030C (GC)

Matrix Spike Dup (E142206-MSD1)	Source: 4	117011-12	Prepared: (09/21/04 A	nalyzed: 0	9/22/04		
Benzene	99.5	ug/kg	100	ND	99.5	80-120	0.501	20
Toluene	100	11	100	ND	100	80-120	2.96	20
Ethylbenzene	98.0	н	100	ND	98.0	80-120	3.02	20
Xylene (p/m)	221	51	200	ND	110	80-120	2.69	20
Xylene (o)	105	и	100	ND	105	80-120	1.89	20
Surrogate: a,a,a-Trifluorotoluene	115	"	100		115	80-120		
Surrogate: 4-Bromofluorobenzene	93.5	"	100		93.5	80-120		

Batch EI42407 - EPA 5030C (GC)

Blank (EI42407-BLK1)				Prepared & Ana	dyzed: 09/22/04		
Bonzone	ND	0.0250	mg/kg wct				
Toluene	ND	0.0250	н				
Ethylbenzene	ND	0.0250	"				
Xylene (p/m)	ND	0.0250	n				
Xylene (o)	NĐ	0.0250	и				
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 & Ana	dyzed: 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		H	100	106	80-120	
Surrogate: a,a,a-Trifluorotoluene	117		n	100	117	80-120	

100

98.0

Surrogate: 4-Bromofluorobenzene

98.0

80-120

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

Lovington TX, 88260

Project Number: 2004-00182 Project Manager: Ken Dutton

Reported: 09/26/04 11:01

Organics by GC - Quality Control

Environmental Lab of Texas

	Reporting			Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI42407 - EPA 5030C (GC)										
Calibration Check (EI42407-CCV1)				Prepared: 0	09/22/04 A	nalyzed: 09	/23/04			
Benzene	105		ug/kġ	100		105	80-120			
Tolucne	106		"	100		106	80-120			
Ethylbenzene	101		11	100		101	80-120			
Xylene (p/m)	224		10	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)	Soui	rce: 4117012-0	15	Prepared: 0	09/22/04 A	nalyzed: 09	/23/04			
Велгене	108		ug/kg	100	ND	108	80-120			
Toluene	107		*1	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		н	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	98.1		"	100		98.1	80-120			
Matrix Spike Dup (EI42407-MSD1)	Sour	rce: 4117012-0	5	Prepared: 0	9/22/04 A	nalyzed: 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		и	100	ND	105	80-120	2.82	20	
Surrogate: a,a,q-Trifluorotoluene	117		н	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		*	100		95.1	80-120			

Project: Saunders 8 inch #3

Fax: (505) 396-1429

P.O. Box 301

% Solids

Project Number: 2004-00182

Reported: 09/26/04 11:01

0.00

20

Lovington TX, 88260

Project Manager: Ken Dutton

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit U	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI42110 - % Solids										
Blank (EI42110-BLK1)				Prepared: 0)9/20/04 A	nalyzed: 09	/21/04			
% Solids	100		%							
Duplicate (EI42110-DUP1)	Source	e: 4I17011-03		Prepared: 0	9/20/04 A	nalyzed: 09	/21/04			

93.0

93.0

Basin Environmental ServicesProject:Saunders 8 inch #3Fax: (505) 396-1429P.O. Box 301Project Number:2004-00182Reported:Lovington TX, 88260Project Manager:Ken Dutton09/26/04 11:01

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 Sample results reported on a dry weight basis dry RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Dup Duplicate

	Kaland KJumb			
Report Approved By:	Lacon C 100	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

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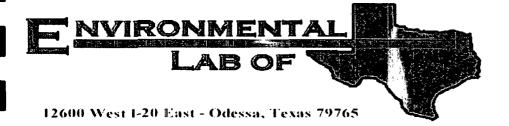
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client <u>Fasia Environ</u>	ivriental.				
Date/Time: <u>೮۹- ೧೯-೦೯</u> ೦	153O				
Order #					
Initials: Jmm	- Angelian panamana a mangana ang ang ang ang ang ang ang ang a				
	Sample Receip	t Checki	st	2	
Temperature of container/cooler?		(Yes)	No	-1.5 C	
Shipping container/cooler in good cor		(Yes)	No		
Custody Seals intact on shipping con		Yes	No	(Not present)	
Custody Seals intact on sample bottle	\$7	Yes	No	(Not present)	
Chain of custody present?		(Yes)	No		
Sample instructions complete on Cha		(Yes)	No		
Chain of Custody signed when relinque		CYes	No		
Chain of custody agrees with sample	label(s)	(Yes)	No		
Container labels legible and intact?		Yes	No		
Sample Matrix and properties same a	s on chain of custody?	(Yes	No		
Samples in proper container/bottle?		(YES)	No		
Samples properly preserved?		(Yes)	No		
Sample bottles intact?		(Yes)	No	i de la companya de l La companya de la co	
Preservations documented on Chain	of Custody?	(Yes)	No		
Containers documented on Chain of (Sustody?	(Yes	No	n de Light Light Light Street Street	
Sufficient sample amount for indicated	i test?	Stes)	No		
All samples received within sufficient		Yes	No		
VOC samples have zero headspace?		(Yes)	No	Not Applicable	
Other observations:					
Contact Person: Regarding:	Variance Docu Date/Time:	mentatio		Contacted by:	
					-
Corrective Action Taken:					
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Analytical Report

Prepared for:

Ken Dutton

Basin Environmental Services

P.O. Box 301

Lovington, NM 88260

Project: Saunders 8 inch #1 & #3
Project Number: EMS: 2004-00182
Location: Lea County, NM

Lab Order Number: 4K05016

Report Date: 11/11/04

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: EMS: 2004-00182

ANALYTICAL REPORT FOR SAMPLES

Reported: 11/11/04 10:23

Lovington NM, 88260

Project Manager: Ken Dutton

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Ramp-Exc	4K05016-01	Solid	11/04/04 14:45	11/05/04 15:27
South Ramp-Exc	4K05016-02	Solid	11/04/04 14:50	11/05/04 15:27
Exc. Floor-East	4K05016-03	Solid	11/04/04 15:00	11/05/04 15:27
Exc. Floor-West	4K05016-04	Solid	11/04/04 14:55	11/05/04 15:27

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301

Lovington NM, 88260

Project Number: EMS: 2004-00182

Project Manager: Ken Dutton

Reported: 11/11/04 10:23

Organics by GC

Environmental Lab of Texas

Environmental Lab of Texas									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
North Ramp-Exc (4K05016-01) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	0.164	0.0250	1*	n	u		н	н	
Ethylbenzene	0.128	0.0250	•	**	"		ш	Ħ	
Xylene (p/m)	0.399	0.0250	,,	"	н	•		н	
Xylene (o)	0.162	0.0250	in	10	D	"	16	**	
Surrogate: a,a,a-Trifluorotoluene		91.1 %	% 80-120		"	"	n	u	
Surrogate: 4-Bromofluorobenzene		90.5 %	6 80-120		,,	*	"	*	
Gasoline Range Organics C6-C12	42.5	10.0	mg/kg dry	1	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	588	10.0	*	*1	*1	*	"	66	
Total Hydrocarbon C6-C35	630	10.0	1*	11	н	н	н	n	
Surrogate: 1-Chlorooctane		108 %	70-1	30	"	"	n	n	
Surrogate: 1-Chlorooctadecane		124 %	70-1	30	n	Ħ	#	н	
South Ramp-Exc (4K05016-02) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	ND	0.0250	**	н		11	*	*	
Ethylbenzene	ND	0.0250	19	**	"		*	*	
Xylene (p/m)	ND	0.0250	10	n	**	•	*	**	
Xylene (o)	ND	0.0250	•	*		10	ч	н	
Surrogate: a,a,a-Trifluorotoluene		86.1 %	80-1	20	,,	#	"	n	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-1	20	"	Ħ	n	n	
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	14.7	10.0	1+	*1	II	w	4	44	
Total Hydrocarbon C6-C35	14.7	10.0	49	**	п	,	n	13	
Surrogate: 1-Chlorooctane		99.4 %	70-1	30	п	"	"	n	
Surrogate: 1-Chlorooctadecane		105 %	70-1	30	н	"	"	n	
Exc. Floor-East (4K05016-03) Solid									
Benzene	1.02	0.100	mg/kg dry	100	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	16.1	0.100	•	**		u	•	н	
Ethylbenzene	11.6	0.100		**	**		"	10	
Xylene (p/m)	41.9	0.100	**	n	н	н	n		
Xylene (o)	18.0	0.100	"	11	н	11	11	11	
Surrogate: a,a,a-Trifluorotoluene		224 %	80-1	20	"	"	"	n	S-C
Surrogate: 4-Bromofluorobenzene		148 %	80-1	20	"	,,	"	*	S-a
Gasoline Range Organics C6-C12	3770	10.0	mg/kg dry	1	EK40508	11/05/04	11/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	12200	10.0				*		н	
Total Hydrocarbon C6-C35	16000	10.0			*	п	**	n	

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.

P.O. Box 301

Lovington NM, 88260

Project: Saunders 8 inch #1 & #3

Project Number: EMS: 2004-00182

Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 11/11/04 10:23

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Exc. Floor-East (4K05016-03) Solid									
Surrogate: I-Chlorooctane		39.0 %	70-1.	30	EK40508	11/05/04	11/09/04	EPA 8015M	S-06
Surrogate: 1-Chlorooctadecane		35.8 %	70-1.	30	"	n	#	*	S-06
Exc. Floor-West (4K05016-04) Solid									
Benzene	0.186	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	2.34	0.0250	**	11	н		**	u	
Ethylbenzene	2.15	0.0250	*	**	u		•		
Xylene (p/m)	11.6	0.0250	11	u	u	•	u	н	
Xylene (o)	5.75	0.0250	**	n		*		п	
Surrogate: a,a,a-Trifluorotoluene		221 %	80-1.	20	n))	"	n	S-04
Surrogate: 4-Bromofluorobenzene		116%	80-1.	20	,,	"	"	77	
Gasoline Range Organics C6-C12	344	10.0	mg/kg dry	i	EK40508	11/05/04	11/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	1630	10.0	**	•	п		•	H	
Total Hydrocarbon C6-C35	1970	10.0	11	•	•			10	
Surrogate: 1-Chlorooctane		111 %	70-1.	30	n,	n	#	n	
Surrogate: 1-Chlorooctadecane		104 %	70-1.	30	"	n	"	,,	

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: EMS: 2004-00182

Reported: 11/11/04 10:23

Lovington NM, 88260

Project Manager: Ken Dutton

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Ramp-Exc (4K05016-01) Solid				Dilution		repared	Allaryzeu	Wend	Notes
% Moisture	10.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
South Ramp-Exc (4K05016-02) Solid									
% Moisture	12.0	· ·	%	1	EK40804	11/08/04	11/08/04	% calculation	
Exc. Floor-East (4K05016-03) Solid									
% Moisture	13.0		%	1	EK40804	11/08/04	11/08/04	% calculation	
Exc. Floor-West (4K05016-04) Solid									
% Moisture	13.0		%	1	EK40804	11/08/04	11/08/04	% calculation	

P.O. Box 301 Lovington NM, 88260 Project: Saunders 8 inch #1 & #3

Project Number: EMS: 2004-00182
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported: 11/11/04 10:23

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Not
Allalyk	Result	Limit	Units	Level	Resuit	70KEC	Limits	KYU	Limit	Notes
Batch EK40508 - Solvent Extraction (GC)										
Blank (EK40508-BLK1)				Prepared &	k 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: 1	11/05/04 Aı	nalyzed: 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	u							
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	W	1000		92.3	75-125			
Surrogate: 1-Chlorooctane	52.2	·····	mg/kg	50.0	···········	104	70-130			
Surrogate: 1-Chlorooctadecane	50.9		n	50.0		102	70-130			
LCS (EK40508-BS2)				Prepared:	11/05/04 Aı	nalyzed: 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			

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301 Lovington NM, 88260

Project Number: EMS: 2004-00182 Project Manager: Ken Dutton

Reported: 11/11/04 10:23

Organics by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	NO.	Simil	Onto		Result	/UNDC	Linio	NI D	Cilin	14065
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: 1	11/05/04 A	nalyzed: 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		44	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)	Sou	rce: 4K05013	3-14	Prepared: 1	11/05/04 A	nalyzed: 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)	Sou	rce: 4K05013	3-14	Prepared:	11/05/04 A	nalyzed: 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	н	521	ND	116	75-125	1.84	20	
Total Hydrocarbon C6-C35	1200	10.0	u ·	1040	ND	115	75-125	3.39	20	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0	, , , , , , ,	119	70-130			
Surrogate: 1-Chlorooctadecane	<i>53.1</i>		"	50.0		106	70-130			

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301

Lovington NM, 88260

Project Number: EMS: 2004-00182

Reported: 11/11/04 10:23

Project Manager: Ken Dutton

Organics by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK41003 - EPA 5030C (GC)										
Blank (EK41003-BLK1)			-	Prepared &	Analyzed	: 11/09/04				
Benzene	ND	0.0250	mg/kg wct							
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			
Ethylb en zene	98.8		4	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		11	100		117	80-120			
Calibration Check (EK41003-CCV1)				Prepared:	11/09/04 A	nalyzed: 11	/10/04			
Benzene	88.4		ug/kg	100		88.4	80-120			
Toluene	98.0		"	100		98.0	80-120			
Ethylbenzene	92.2		u	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		11	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			
Matrix Spike (EK41003-MS1)	Sou	rce: 4K0800:	3-01	Prepared: 1	11/09/04 A	nalyzed: 11	/10/04			
Benzene	87.9		ug/kg	100	ND	87.9	80-120			
Toluene	98.0		11	100	ND	98.0	80-120			
Ethylbenzene	103		и	100	ND	103	80-120			
Xylene (p/m)	225		**	200	ND	112	80-120			
Xylene (o)	106		H	100	ND	106	80-120			
Surrogate: a,a,a-Trifhuorotohuene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Lovington NM, 88260

Project: Saunders 8 inch #1 & #3

Spike

Source

%REC

Fax: (505) 396-1429

P.O. Box 301

Project Number: EMS: 2004-00182 Project Manager: Ken Dutton

Reported: 11/11/04 10:23

RPD

Organics by GC - Quality Control

Environmental Lab of Texas

Reporting

.	Result 1/09/04 As	%REC	Limits //10/04	RPD	Limit	Notes
.	1/09/04 A:	nalvzed: 11	/10/04			
.	1/09/04 A	nalvzed: 11	/10/04			
100			/10/04			
100	NĐ	90.9	80-120	3.36	20	
100	ND	103	80-120	4.98	20	
100	ND	106	80-120	2.87	20	
200	ND	118	80-120	5.22	20	
100	ND	110	80-120	3.70	20	
100		110	80-120	<u> </u>		
100		116	80-120			
_	100 200 100	100 ND 100 ND 100 ND 200 ND 100 ND 100 ND	100 ND 90.9 100 ND 103 100 ND 106 200 ND 118 100 ND 110	100 ND 103 80-120 100 ND 106 80-120 200 ND 118 80-120 100 ND 110 80-120 100 110 80-120	100 ND 90.9 80-120 3.36 100 ND 103 80-120 4.98 100 ND 106 80-120 2.87 200 ND 118 80-120 5.22 100 ND 110 80-120 3.70 100 110 80-120 3.70	100 ND 90.9 80-120 3.36 20 100 ND 103 80-120 4.98 20 100 ND 106 80-120 2.87 20 200 ND 118 80-120 5.22 20 100 ND 110 80-120 3.70 20

Project: Saunders 8 inch #1 & #3

Fax: (505) 396-1429

P.O. Box 301

Project Number: EMS: 2004-00182

Reported: 11/11/04 10:23

Lovington NM, 88260

Project Manager: Ken Dutton

General Chemistry Parameters by EPA / Standard Methods - Quality Control

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

Batch EK40804 - General Preparation	- General Preparation (Prep)
-------------------------------------	------------------------------

Blank (EK40804-BLK1)			Prepared & Analyzed: 11/08/04			*******
% Moisture	0.0	%				, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Duplicate (EK40804-DUP1)	Source: 4K	05006-01	Prepared & Analyzed: 11/08/04			
% Maisture	20.0	0/0	20.0	0.00	20	

Project: Saunders 8 inch #1 & #3

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Project Number: EMS: 2004-00182

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Lovington NM, 88260

Project Manager: Ken Dutton

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Raland KJulis Report Approved By: Date:

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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Environmental Lab of Texas

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11/11/2004

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Lhy ronmental Lab of Texas

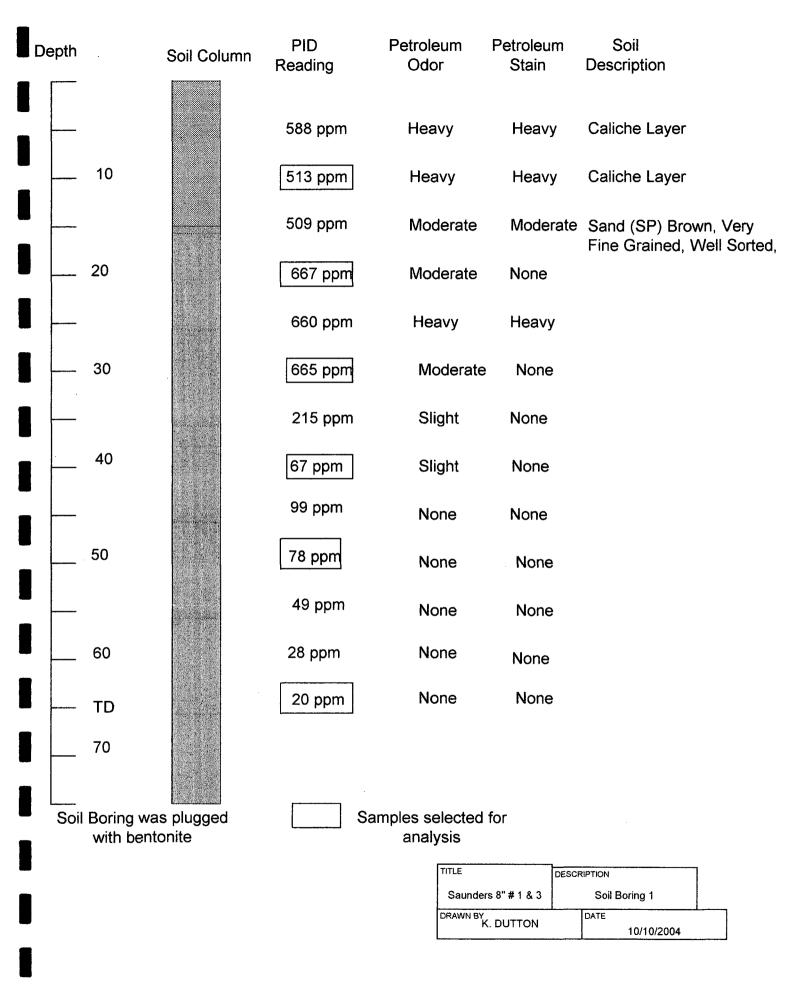
12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-663-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

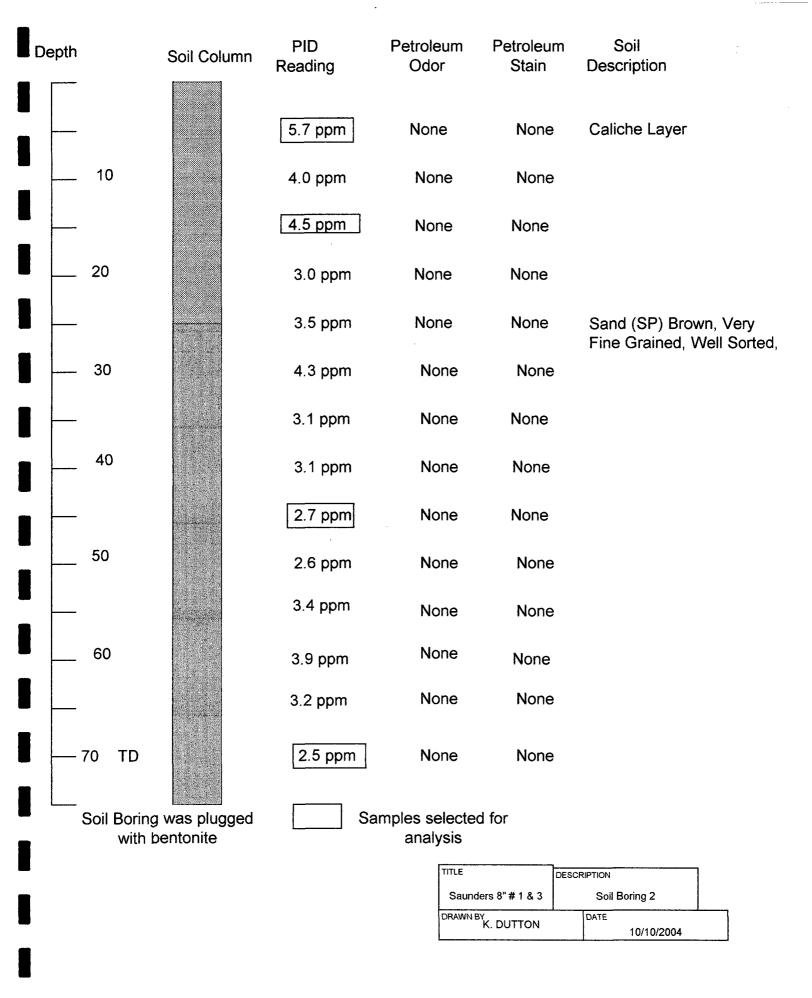
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-01	NOR	TH RI	AMP-	EXC		\$4	Nov	1445	1		X							X		X				\Box		<	1		\Box			X
-02	Sour	H RI	AMP-	FXC				1450	Ш		Ш		\perp			\perp	\perp	Ш	Ц	\coprod	_	$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$		\bot	_[]	Щ.	$oldsymbol{\perp}$	Ш	\sqcup	_	1	Ц
-03	Exe	FLO	or-E	AST			<u> </u>	1500	Ш	\perp	Ц				_	\perp		Щ		Ц	\perp	_	Ш	\bot	$\perp \! \! \! \! \! \! \! \! \! \! \perp \! \! \! \! \! \! \! \!$	Щ	$oldsymbol{\perp}$	\sqcup	\sqcup	\perp	1	Ц
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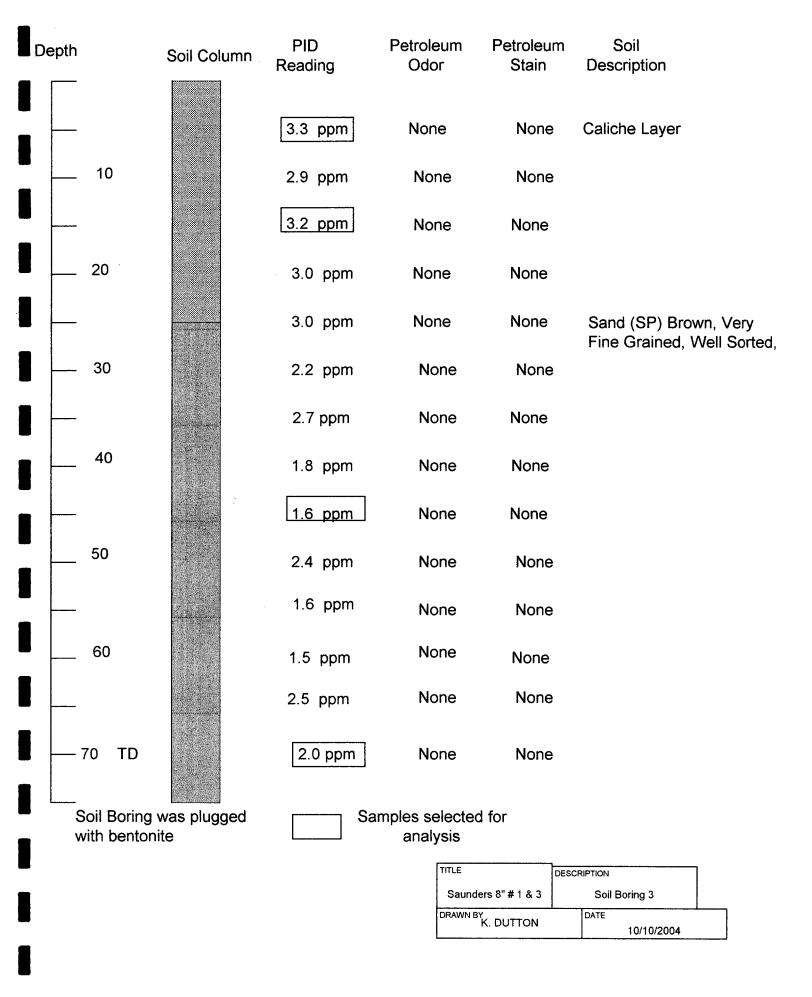
Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

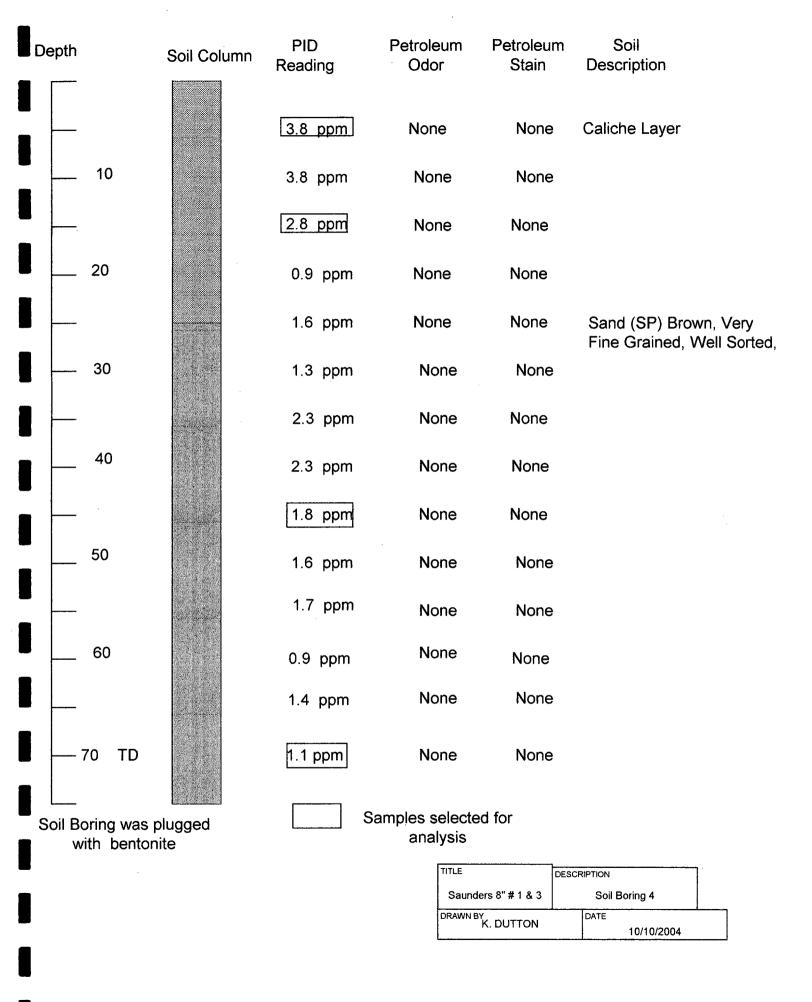
Client: Basin Environmental				
Date/Time: 11-05-04@ 1600				
Order #:				
Initials: JMM				
Sample Receip	t Checkli	st		
Temperature of container/cooler?	Yes		: 1.0 C.	
Shipping container/cooler in good condition?	(Yes)	No		
Custody Seals intact on shipping container/cooler?	Yes	No		
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Fes		Que Bresonio	
Sample Instructions complete on Chain of Custody?	(Yes)	No	1	
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?	Yas	No		
Samples in proper container/bottle?	(Yes)	No		
Samples properly preserved?	Yes	No	,	
Sample bottles intact?	A GS	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?		No		
All samples received within sufficient hold time?	Yası		1	
VOC samples have zero headspace?	Yes	No	Not Applicable	
Other observations:				
Contact Person: Date/Time: Regarding:			Contacted by: _	
Corrective Action Taken:			:	
	-			

APPENDIX C SOIL BORING LOGS









APPENDIX D

NMOCD FORM C-141

2 Dr., Hobbs, NM 88240 I Avenue, Artesia, NM 88210 Los Road, Aztec, NM 87410 Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

				OPERA	TOR	X	Initia	l Report		Final Repor
Name of Company Plains Marke	ting, LP				nille Reynolds					
Address 5805 East Hwy. 80, Mic	lland, TX 797	06			No. 505-441-09					
Facility Name Saunders 8" #1				Facility Typ	e 8"Steel Pipeli	ine				
Surface Owner State Of New Mo	exico	Mineral C)wner			Le	ease N	c.		
		TOCA	ו אויזרי ע	N OF REI	TASE					
Unit Letter Section Township	Range Fo	eet from the		South Line	Feet from the	East/West	Line	County		
L 24 14S	33E							Lea	····	
Lati	tude_33°05'1	4.9"	manya si ngana dahamina	Longitude	103°34'31.2"					
		NAT	TURE	OF RELI	EASE .			_		
Type of Release Crude Oil					Release 60 barre			ecovered 2:		
Source of Release 8" Steel Pipeline				1	four of Occurrence	i		Hour of Dis	covery	
Was Immediate Notice Given?				7-30-04 @ If YES, To		1 /-31	0-04 <u>@</u>	09:13		
	X Yes □ N	lo 🗌 Not Re	equired	Paul Sheele						
By Whom? Camille Reynolds					lour 7-30-04 @ 3					
Was a Watercourse Reached?] Yes ⊠ N	lo		If YES. Vo	lume Impacting t	the Watercou	rse.			
is and the gravity of the sweet crud iscribe Area Affected and Cleanu [854 12].							rial ext	ent of surfa	ce imp	act was
reby certify that the information alations all operators are required lic health or the environment. To all their operations have failed the environment. In addition, NM deral, state, or local laws and/or re-	I to report and/one acceptance on adequately invalued inv	or file certain r of a C-141 repovestigate and r	release n ort by th remediat	otifications as e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a three the operator of	ctive actions deport" does reat to ground responsibility	for rele not relie I water y for co	ases which eve the ope surface was compliance	may er rator of ater, hu with any	ndanger f liability man health
1 / 1	(۸.			OIL CON	SERVAT	1ON	<u> </u>	<u>'N</u> "∂	A.
unature: Camoo a	Kum	olds		Approved by	District Supervis	sor (S	se; (£			
inted Name: Camille Reynolds	ţ			t.1		1117			<u>></u>	
ile: Remediation Coordinator				Approval Da	te:	Expi	ration I	Date:		one and a first of the form of the Market transfer and the first transfer and
mail Address: cjreynolds@paalp.	com			Conditions of	f Approval:	1/2		Апасресі		
he Riaind	Phone:50:	5-441-0965					•			

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

000 Hopps PC^C!AED

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

side of form

			Rela	ease Notific	cation	and Co	rrective A	ction and	(4%) + +		
						OPERA		x In	itial Report	Final Repo	
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" #3						Facility Type 8"Steel Pipeline					
Surface Owner State Of New Mexico Mineral Owner						Lease No.					
Sairace On	iner state (21110111111011		- · · · · · · · · · · · · · · · · · · ·							
	I G .:	7 1:				OF REI		T . (1)	- T &		
Unit Letter L	Section 24	Township 14S	Range 33E	Feet from the	North/	South Line	Feet from the	East/West Line	County Lea		
1.5	27	143	3313				1, 2				
		Latitu	de_33°0	5'14.9"		Longitude	<u>103°34'31.2"</u>				
				NAT	TURE	OF RELI	EASE				
Type of Release Crude Oil							Volume of Release 20 barrels Volume Recovered 14barrels				
Source of Re						Date and Hour of Occurrence Date and Hour of Discovery				covery	
						8-9-04 @ 06:00 8-9-04 @ 08:00					
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required						If YES, To Whom? Larry Johnson					
By Whom? Camille Reynolds Was a Watercourse Reached?						Date and Hour 8-9-04 @ 13:15 If YES, Volume Impacting the Watercourse.					
Yes No						in 123, volume impacting the vintercourse.					
If a Watercou	rse was Im	nacted Descr	ihe Fully	<u> </u>		J					
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 H_2S content of less than 10 ppm											
por and the grainty of the direct of day on 15 or 12. The direct of day and 12 ppm											
	a Affected	and Cleanup A	Action Tal	en.* The impacte	ed soil w	as excavated	and stockpiled on	plastic. Aerial	extent of surfa	ce impact was	
2.500 ft^2 .										-	
							knowledge and u				
							nd perform correc arked as "Final R				
										iter, human health	
or the enviror	iment. In a	ddition, NMC	OCD accep				e the operator of				
federal, state,	or local lav	ws and/or regu	lations.								
						OIL CONSERVATION DIVISION					
Signature Com Dle Kumolds											
							Approved by District Supervisor:				
Printed Name: Camille Reynolds											
Title: Remediation Coordinator						Approval Date:		Expiratio	Expiration Date:		
E-mail Address: cjreynolds@paalp.com						Conditions of	f Approval:		Attached		
Date: 8-16-04	1			Phone:505-441-	-0965						
Attach Addit		ets If Necess	arv								