1RP-1156 Basin Environmental Service Technologies, LLC

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PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION/CLOSURE PLAN

PLAINS MARKETING, L.P. Zia Grizzell 4-Inch Idled Line Lea County, New Mexico Plains EMS: 2005-00210

NMOCD File Number: 1RP-1156

UNIT P (SE/SE), Section 8, Township 22 South, Range 37 East Latitude, Longitude 32°, 24', 10.7" North, 103°, 10', 38.7" West Pun AFRENTED LA.O.

Prepared For:

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

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

20 December 2006

Basin Environmental Service Technologies, LLC

application - pPACO6 35550219

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the Zia Grizzell 4-Inch Idled Pipeline, on 05 September 2005. The Zia Grizzell 4-Inch Idled Pipeline was initially clamped and later cold cut and capped, under the direction of Plains operations personnel, to allow unhindered excavation of the impacted soil. After containing the crude oil release, excavation was initiated and the impacted soil was stockpiled on a 6-mil poly-liner adjacent to the excavation until further investigation could be conducted. The Zia Grizzell 4-Inch Idled Pipeline is located on land owned by the Apache Corporation.

This site is located in Unit P (SE/SE), Section 8, Township 22 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1) on land owned by the Apache Corporation. The site latitude is 32°, 24, 10.7 North and the site longitude is 103°, 10', 38.7 West. The site is characterized by a right-of-way for the pipeline in a pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 45 feet long by 25 feet wide. Approximately 40 barrels of crude oil were released from the pipeline and 30 barrels were recovered.

An Emergency One-Call was initiated 05 September 2005 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. Gary Wink, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District I, was verbally notified of the release on 05 September 2005. A C-141 form, dated 09 September 2005, was completed by Plains and submitted to the NMOCD District 1 Office, Hobbs, New Mexico, (see Appendix D, NMOCD C-141).

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no groundwater depth information for that section. However, Section 09 of the same Township and Range contains groundwater information revealing an average depth to groundwater of 90 feet bgs. There are no surface water bodies within 1000 feet of the release site; however, there are two (2) water wells to the east and northeast, within 1000 feet of the release site (approximately 462 and 522 feet, respectively). Based on this data, the site has an NMOCD Ranking Score of >19, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 100 ppm

SUMMARY OF FIELD ACTIVITIES

On 05 September 2005, Basin arrived at the Zia Grizzell 4-Inch Idled Pipeline release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After the crude oil release was contained utilizing a pipeline repair clamp, excavation of the impacted soil was initiated (see Figure 2, Excavation Site Map). The Zia Grizzell 4-Inch Idled pipeline was cold cut and capped, under the direction of Plains operations personnel, and the pipeline removed from the crude oil release area to allow excavation activities to proceed unhindered.

The release point and flow path areas were excavated to approximately 45 feet long by 24 feet wide and range in depth from 08 to 10 feet below ground surface (bgs) (see Figure 2, Excavation Site Map). The excavated soil was placed on a poly liner for future remedial action. On 13 September 2005, six (6) confirmation soil samples were collected and screened with a Photoionization Detector (PID), calibrated 13 September 2005 (see Figure 3, Soil Sampling Locations). 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). Laboratory results of the six (6) confirmation soil samples indicated that the excavation was below NMOCD regulatory standards (see Table 1, Soil Chemistry Table) for constituent concentrations of BTEX and exceeded NMOCD regulatory standards for TPH-GRO/DRO for five (5) of the six (6) soil samples.

On 23 November 2005, Basin installed one soil boring, utilizing Straub Corporation, Stanton, Texas, collecting soil samples every five (5) feet at the release point (excavation floor, approximately 6 to 7 feet bgs) in order to evaluate the vertical extent of crude oil impacted soil (see Figure 3). The soil boring was terminated at 45 feet bgs (Soil Boring Log attached as Appendix C). Each sample was field screened with a PID and selected soil samples were analyzed for BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were below NMOCD regulatory standards for the 15 and 25 feet bgs soil samples and not detected above laboratory method detection limits for the 35 and 45 feet bgs soil samples. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO exceeded NMOCD regulatory standards for 15, 25 and 35 feet bgs subsurface soil samples and the 45 feet bgs soil sample was below NMOCD regulatory standards.

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The final dimensions of the excavated release point and flow path areas are approximately 45 feet long by 24 feet wide ranging in depths from approximately 8 to 10 feet bgs with no visual evidence of crude oil impact evident on the excavation floor or walls. Approximately 400 cubic yards of impacted soil has been stockpiled adjacent to the excavation resulting from the emergency response and excavation activities.

On 13 September 2005, Basin collected six (6) confirmation soil samples from the excavation floor and walls, ranging in depth from 5 to 10 feet bgs; field screened with a PID and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory data sheets and chain-of-custody forms are attached (Appendix C). Laboratory results indicated detectable BTEX constituent concentrations were below NMOCD regulatory standards for the six (6) confirmation soil samples at depths ranging from 3 to 10 feet bgs, respectively. Laboratory results indicated that TPH-GRO/DRO concentrations exceeded NMOCD regulatory standards for the soil samples collected from the west sidewall, east sidewall, north sidewall, floor south, and floor north at 5, 5, 5, 8 and 10 feet bgs, at 141 mg/kg, 156 mg/kg, 241 mg/kg, 1500 mg/kg and 8300 mg/kg, respectively. The south sidewall soil sample exhibited detectable constituent concentrations of TPH-GRO/DRO at 5 feet bgs at 75 mg/kg, which was below NMOCD regulatory standards.

On 23 November 2005, Basin installed one soil boring, utilizing Straub Corporation, Stanton, Texas, collecting soil samples every five (5) feet at the release point (excavation floor, approximately 6 to 7 feet bgs) in order to evaluate the vertical extent of crude oil impacted soil (see Figure 3). The soil boring was terminated at 45 feet bgs due to loss of air circulation (Soil Boring Log attached as Appendix C). Soil samples collected at 5 and 10 feet bgs were field screened with a PID, however; were not analyzed due to backfilling of the excavation floor required for access of the drilling rig. Each sample was field screened with a PID and selected soil samples were analyzed for BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were below NMOCD regulatory standards for the subsurface soil samples collected at 15 and 25 feet bgs and not detected above laboratory method detection limits for the 35 and 45 feet bgs soil samples. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO exceeded NMOCD regulatory standards for three (3) subsurface soil samples at 15, 25 and 35 feet bgs at 3090 mg/kg, 3380 mg/kg and 223 mg/kg, respectively. Laboratory results indicated that detectable concentrations of TPH-GRO/DRO were exhibited for the 45 feet bgs soil sample; however, the soil sample was below NMOCD regulatory standards at 34 mg/kg.

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

Approximately 400 cubic yards of impacted soil has been excavated and stockpiled on-site resulting from the emergency response and excavation of the release point and flow path. Based on the analytical results of the confirmation soil samples and the delineation soil boring, which indicates the crude oil impact is contained in a limited vertical subsurface area immediately around the release point, Plains proposes to excavate the release point and flow path area to approximately 15 feet bgs, collect floor and wall soil samples and install a 20-mil poly liner. Soil samples collected from the floor and walls will be analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. The approximately 400 cubic yards of impacted soil stockpiled on-site and additional impacted soil resulting from the proposed

excavation activities will be transported to the Plains Lea Station Land Farm (LSLF) and clean soil will be transported to the Zia Grizzell release site and utilized as backfill. A permit (NMOCD C-138) will be obtained from the NMOCD for the transporting of the impacted soil to LSLF.

Due to the remote area of this location and distance to the water wells (462 feet and 522 feet, respectively) to the east and northeast, which are cross gradient to the localized groundwater gradient of south to southeast (see Figure 3, Water well locations), Plains recommends that an impermeable barrier consisting of a 20-mil poly liner be permanently installed at the base of the excavation to inhibit vertical migration of contaminants in soil left in place below the cap (see Figure 4, Installation Diagram of 20-mil Poly Liner). The barrier will extend to a minimum of three (3) feet beyond the edges of soil impacted above NMOCD remedial thresholds. A 6-inch layer of fine sand will be installed beneath and above the 20-mil poly liner to prevent degrading the integrity of the poly liner. Installation of the 20-mil poly liner at a depth of approximately 15 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminates in the soil.

Once installation of the 20-mil poly liner completed, backfilling of the excavation will be initiated with the transported clean soil obtained from LSLF. The backfilled excavation will be contoured to the original rangeland grade surrounding the site and reseeded with landowner approved grass seed.

A request for closure will be submitted to the Hobbs District I office, upon completion of backfilling activities. Based on the results of the remediation activities conducted, Plains requests approval from the NMOCD to implement these proposed final remediation and site closure activities.

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

Decontamination Of Equipment

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

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be 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 Work 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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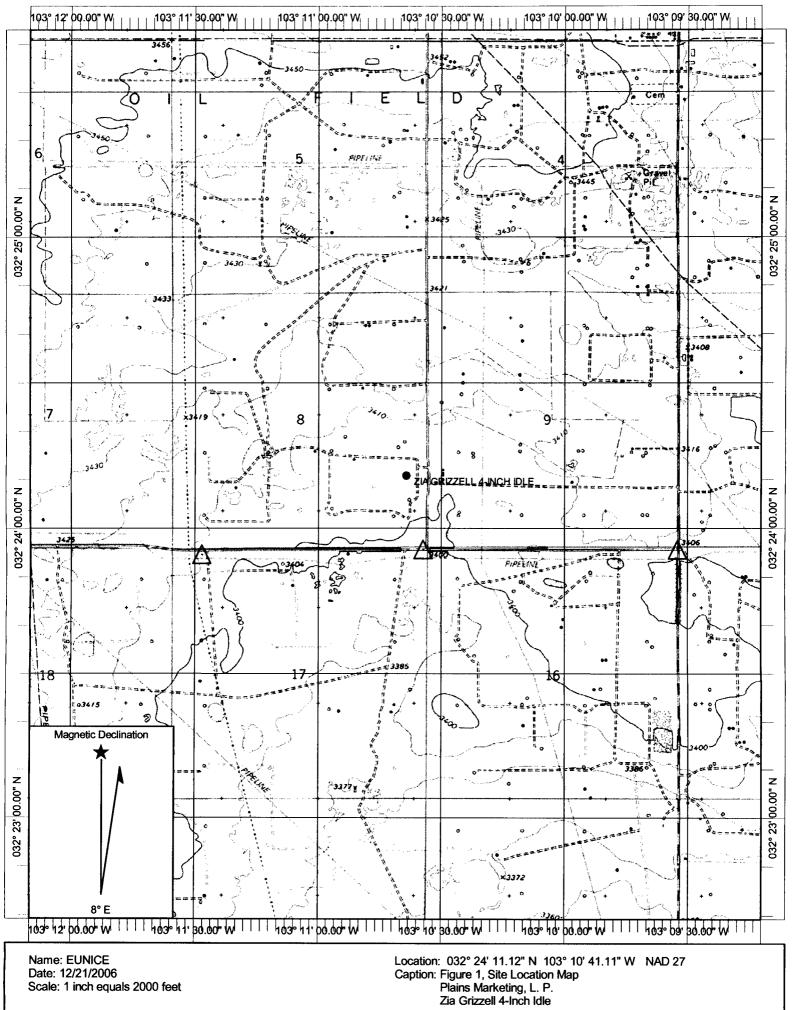
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TABLE 1

SOIL CHEMISTRY

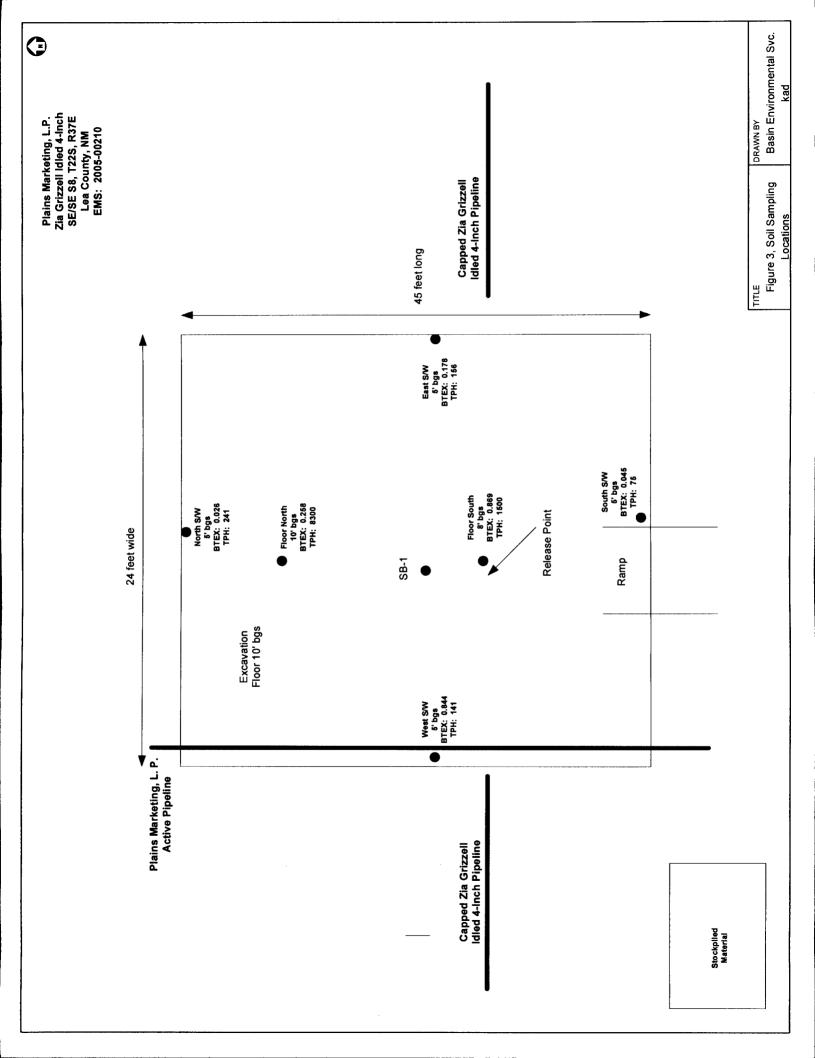
PLAINS MARKETING, L.P. ZIA GRIZZELL 4" IDLED LINE LEA COUNTY, NEW MEXICO EMS: 2005-00210

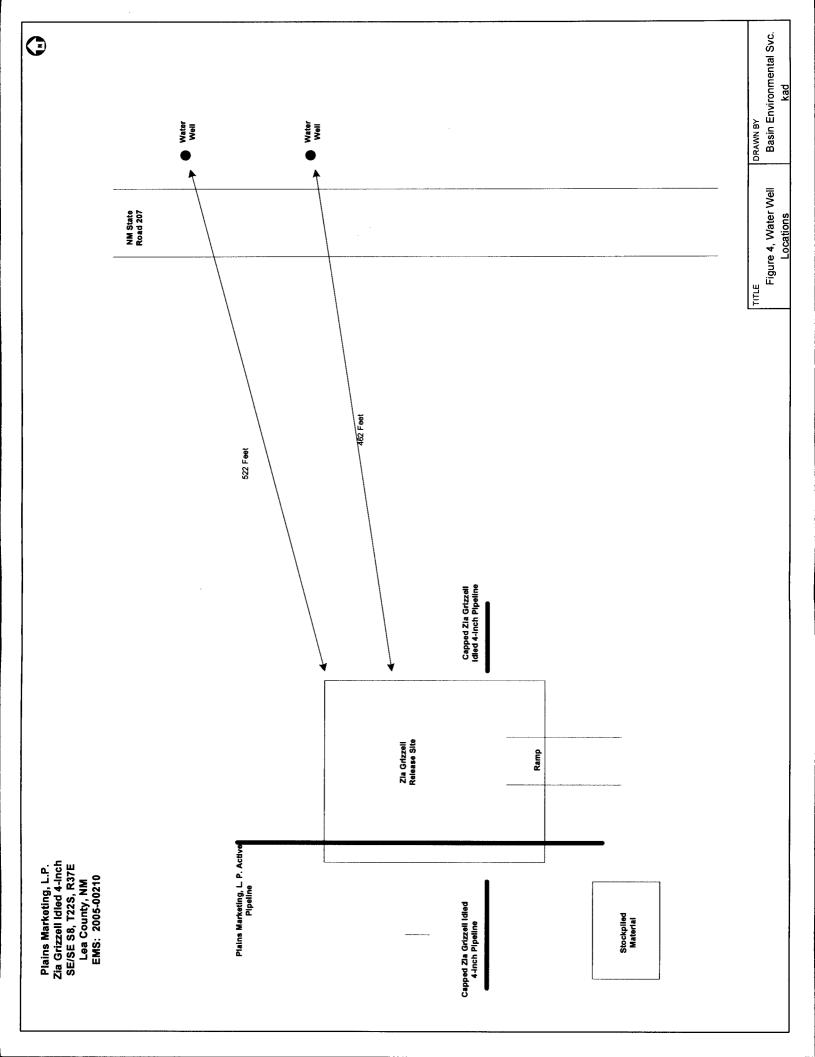
SAMPLE	SAMPLE	SAMPLE SAMPLE		METHOD: E	PA SW 846-	METHOD: EPA SW 846-8021B, 5030		METHOD: 8015M	8015M	TOTAL	CHLORIDES
LOCATION	DEPTH (Below normal	DATE	BENZENE	BENZENE TOLUENE ETHYL-	ETHYL- M.P- BENZENE XYLENES	M,P- XYLENES	O-XYLENE	GRO	DRO	ТРН	
	surface grade)										`.
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
West S/W	Sbq ,S	09/13/05	<0.025	0.213	0.140	0.386	0.105	18.7	122	141	
South S/W	2, pds	09/13/05	<0.025	<0.025	<0.025	0.045	<0.025	× 40	75.4	75.4	
East S/W	5' bgs	09/13/05	<0.025	<0.025	0.043	0.106	0.029	11.8	144	156	
North S/W	Sbq ,g	09/13/05	<0.025	<0.025	<0.025	0.026	<0.025	11.2	230	241	
FLR South	8, pds	09/13/05	<0.025	0.054	0.203	0.447	0.165	143	1360	1500	38.2
FLR North	10' bgs	09/13/05	<0.025	<0.025	0.050	0.165	0.043	604	7700	8300	
STCKPL	N/A	09/13/05	2.25	26.8	39.1	46.8	18.3	6580	18800	25,400	
SB-1 15'	21' bgs	11/23/05	0.105	922.0	0.639	2.44	0.580	558	2530	3090	
SB-1 25'	31' bgs	11/23/05	<0.025	0.248	0.427	1.57	0.438	371	3010	3380	
SB-1 35'	41' bgs	11/23/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	223	223	
SB-1 45'	51' bgs	11/23/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	34.1	34.1	
NMOCD Criteria			10		TOTAL	TOTAL BTEX 50				100	



Scale: 1 inch equals 2000 feet

(3) Basin Environmental Svc. Plains Marketing, L.P.
Zia Grizzell Idled 4-Inch
SE/SE S8, T22S, R37E
Lea County, NM
EMS: 2005-00210 DRAWN BY Capped Zia Grizzell Idled 4-Inch Pipeline Figure 2, ExcavationSite Мар 45 feet long Release Point 24 feet wide Excavation Floor 10' bgs SB-1 Ramp Plains Marketing, L. P. Active Pipeline Capped Zia Grizzell Idled 4-Inch Pipeline Stockpiled Material













New Mexico Office of the State Engineer **POD Reports and Downloads**

Township: 228	Range: 37E	Sections: 7	,8,9,10,11,12	····· :
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AVERAGE DEPTH OF WATER REPORT 10/12/2006

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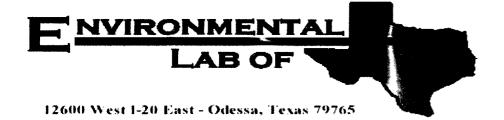
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New Mexico Office of the State Engineer POD Reports and Downloads

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Analytical Report

Prepared for:

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

Project: Zia Grizzell 4" Idled Line Project Number: EMS: 2005-00210 Location: Lea County, NM

Lab Order Number: 5K28002

Report Date: 12/01/05

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 15'	5K28002-01	Soil	11/23/05 08:55	11/23/05 16:00
SB-1 25'	5K28002-02	Soil	11/23/05 09:04	11/23/05 16:00
SB-1 35'	5K28002-03	Soil	11/23/05 09:15	11/23/05 16:00
SB-1 45'	5K28002-04	Soil	11/23/05 09:27	11/23/05 16:00

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 15' (5K28002-01) Soil									
Benzene	0.105	0.0250	mg/kg dry	25	EK52901	11/29/05	11/29/05	EPA 8021B	
Toluene	0.776	0.0250	**	**	н	**	**	*	
Ethylbenzene	0.639	0.0250		"	**	*	*	tr .	
Xylene (p/m)	2.44	0.0250	n	"	n	н	"	H	
Xylene (o)	0.580	0.0250	11		*	"	n	н	
Surrogate: a,a,a-Trifluorotoluene		166 %	80-1	120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		189 %	80-1	120	"	"	n	n	S-0-
Gasoline Range Organics C6-C12	558	10.0	mg/kg dry	1	EK52804	11/28/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	2530	10.0	*		•	**	"	*1	
Total Hydrocarbon C6-C35	3090	10.0		"	,	"	11	**	
Surrogate: 1-Chlorooctane		112 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-1	130	n	"	"	"	
SB-1 25' (5K28002-02) Soil									
Benzene	J [0.0115]	0.0250	mg/kg dry	25	EK52901	11/29/05	11/29/05	EPA 8021B	:
Toluene	0.248	0.0250	*	*	n	н	**	11	
Ethylbenzene	0.427	0.0250	*	**	*	**	**	n	
Xylene (p/m)	1.57	0.0250	н		•	"	*	**	
Xylene (o)	0.438	0.0250	*	**		**	'n	H	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	120	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		173 %	80-1	120	"	n	"	"	S-04
Gasoline Range Organics C6-C12	371	10.0	mg/kg dry	1	EK52804	11/28/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	3010	10.0		*	**	"	•	**	
Total Hydrocarbon C6-C35	3380	10.0	#		"	n	**	IF	
Surrogate: 1-Chlorooctane		119 %	70-1	30	"	n	"	,,	
Surrogate: 1-Chlorooctadecane		130 %	70-1	30	"	,,	"	n	
SB-1 35' (5K28002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK52901	11/29/05	11/29/05	EPA 8021B	
Toluene	ND	0.0250	н	*	*	"	*	**	
Ethylbenzene	ND	0.0250	*	#	,	*	•	ir .	
Xylene (p/m)	ND	0.0250	11			•	•	**	
Xylene (o)	ND	0.0250			"	"	#	u	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1	20	"	"	,,	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-1	20	"	,,	"	"	
Gasoline Range Organics C6-C12	J [5.54]	10.0	mg/kg dry	1	EK 52804	11/28/05	12/01/05	EPA 8015M	J
Diesel Range Organics >C12-C35	223	10.0	n	**			•	u	
Total Hydrocarbon C6-C35	223	10.0		,	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.

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 35' (5K28002-03) Soil		· · ·							
Surrogate: 1-Chlorooctane		105 %	70-1	30	EK52804	11/28/05	12/01/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		105 %	70-1	30	"	"	"	"	
SB-1 45' (5K28002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK52901	11/29/05	11/29/05	EPA 8021B	
Toluene	ND	0.0250	"	*	**	"	*	•	
Ethylbenzene	ND	0.0250	**	**	"	**		"	
Xylene (p/m)	ND	0.0250	*	**	,	•	**	*	
Xylene (o)	ND	0.0250			Ħ	*	**	,,	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-1	20	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK52804	11/28/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	34.1	10.0	w	"	**	Ħ		19	
Total Hydrocarbon C6-C35	34.1	10.0	"			*		Ħ	
Surrogate: 1-Chlorooctane		112 %	70-1	30	,,	"		,	
Surrogate: 1-Chlorooctadecane		114%	70-1	30	"	n	"	"	

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 15' (5K28002-01) Soil									
% Moisture	4.2	0.1	%	1	EK 52902	11/28/05	11/29/05	% calculation	
SB-1 25' (5K28002-02) Soil									
% Moisture	6.1	0.1	%	1	EK52902	11/28/05	11/29/05	% calculation	
SB-1 35' (5K28002-03) Soil									
% Moisture	6.6	0.1	%	1	EK52902	11/28/05	11/29/05	% calculation	
SB-1 45' (5K28002-04) Soil									
% Moisture	2.6	0.1	%	1	EK52902	11/28/05	11/29/05	% calculation	

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

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 EK52804 - Solvent Extraction (GC)										
Blank (EK52804-BLK1)				Prepared:	11/28/05 A	nalyzed: 12	2/01/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0								
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	38.6		mg/kg	50.0		77.2	70-130			
Surrogate: 1-Chlorooctadecane	35.0		"	50.0		70.0	70-130			
LCS (EK52804-BS1)				Prepared: 1	11/28/05 A	nalyzed: 12	2/01/05			
Gasoline Range Organics C6-C12	516	10.0	mg/kg wet	500		103	75-125			
Diesel Range Organics >C12-C35	591	10.0	"	500		118	75-125			
Total Hydrocarbon C6-C35	1110	10.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	62.5		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	51.2		"	50.0		102	70-130			
Calibration Check (EK52804-CCV1)				Prepared: 1	11/28/05 A	nalyzed: 12	2/01/05			
Gasoline Range Organics C6-C12	410		mg/kg	500		82.0	80-120			
Diesel Range Organics >C12-C35	556		**	500		111	80-120			
Total Hydrocarbon C6-C35	966		"	1000		96.6	80-120			
Surrogate: 1-Chlorooctane	56.8		"	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	55.8		"	50.0		112	70-130			
Matrix Spike (EK52804-MS1)	Sou	rce: 5K28003	3-11	Prepared: 1	11/28/05 A	nalyzed: 12	2/01/05			
Gasoline Range Organics C6-C12	504	10.0	mg/kg dry	510	ND	98.8	75-125			
Diesel Range Organics >C12-C35	608	10.0	*	510	ND	119	75-125			
Total Hydrocarbon C6-C35	1110	10.0	**	1020	ND	109	75-125			
Surrogate: 1-Chlorooctane	62.8		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	58.3		"	50.0		117	70-130			
Matrix Spike Dup (EK52804-MSD1)	Sou	rce: 5K28003	3-11	Prepared: 1	11/28/05 A	nalyzed: 12	2/01/05			
Gasoline Range Organics C6-C12	535	10.0	mg/kg dry	510	ND	105	75-125	5.97	20	
Diesel Range Organics >C12-C35	619	10.0	**	510	ND	121	75-125	1.79	20	
Total Hydrocarbon C6-C35	1150	10.0	•	1020	ND	113	75-125	3.54	20	
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	59.8		"	50.0		120	70-130			

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

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 EK52901 - EPA 5030C (GC)										
Blank (EK52901-BLK1)	······································		·	Prepared &	. Analyzed:	11/29/05			-	
Benzene	ND	0.0250	mg/kg wet	P						
Toluene	ND	0.0250	,							
Ethylbenzene	ND	0.0250	**							
Xylene (p/m)	ND	0.0250	u							
Xylene (o)	ND	0.0250								
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	35.6		,,	40.0		89.0	80-120			
LCS (EK52901-BS1)				Prepared &	Analyzed:	11/29/05				
Benzene	0.0435	0.00100	mg/kg wet	0.0500		87.0	80-120			
Toluene	0.0526	0.00100	*	0.0500		105	80-120			
Ethylbenzene	0.0550	0.00100		0.0500		110	80-120			
Xylene (p/m)	0.103	0.00100	•	0.100		103	80-120			
Xylene (o)	0.0545	0.00100	H	0.0500		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.5		ug/kg	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	80-120			
Calibration Check (EK52901-CCV1)				Prepared &	Analyzed:	11/29/05				
Benzene	42.7		ug/kg	50.0		85.4	80-120			
Toluene	50.3		**	50.0		101	80-120			
Ethylbenzene	49.7		**	50.0		99.4	80-120			
Xylene (p/m)	93.8		"	100		93,8	80-120			
Xylene (o)	49.4		н	50.0		98.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.2		"	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	32.9		н	40.0		82.2	80-120			
Matrix Spike (EK52901-MS1)	Sou	rce: 5K28011	-01	Prepared &	Analyzed:	11/29/05				
Benzene	0.0458	0.00100	mg/kg dry	0.0526	ND	87.1	80-120			
Toluene	0.0559	0.00100		0.0526	ND	106	80-120			
Ethylbenzene	0.0593	0.00100	*	0.0526	ND	113	80-120			
Xylene (p/m)	0.111	0.00100	Ħ	0.105	ND	106	80-120			
Xylene (o)	0.0589	0.00100	#	0.0526	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.7		ug/kg	40.0		119	80-120			
Surrogate: 4-Bromofluorobenzene	46.7		"	40.0		117	80-120			

Surrogate: 4-Bromofluorobenzene

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Daniel Bryant Fax: (432) 687-4914

Reported: 12/01/05 16:06

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit U	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK52901 - EPA 5030C (GC)					·					
Matrix Spike Dup (EK52901-MSD1)	Sour	rce: 5K28011-01		Prepared &	Analyzed:	11/29/05				
Benzene	0.0463	0.00100 mg/	/kg dry	0.0526	ND	88.0	80-120	1.03	20	
Toluene	0.0559	0.00100	**	0.0526	ND	106	80-120	0.00	20	
Ethylbenzene	0.0587	0.00100	•	0.0526	ND	112	80-120	0.889	20	
Xylene (p/m)	0.110	0.00100	**	0.105	ND	105	80-120	0.948	20	
Xylene (o)	0.0583	0.00100	*	0.0526	ND	111	80-120	0.897	20	
Surrogate: a,a,a-Trifluorotoluene	46.3	uy	ug/kg	40.0		116	80-120			

40.0

106

80-120

42.3

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210

Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported: 12/01/05 16:06

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK52902 - General Preparation (Prep)										
Blank (EK52902-BLK1)				Prepared: 1	1/28/05 A	nalyzed: 11.	/29/05			
% Solids	100		%							
Duplicate (EK52902-DUP1)	Sour	ce: 5K28001-	01	Prepared: 1	1/28/05 A	nalyzed: 11.	/29/05			
% Solids	97.2		%		96.7			0.516	20	

Plains All American EH & SProject:Zia Grizzell 4" Idled LineFax: (432) 687-49141301 S. County Road 1150Project Number:EMS: 2005-00210Reported:Midland TX, 79706-4476Project Manager:Daniel Bryant12/01/05 16:06

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported Sample results reported on a dry weight basis dry Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

	Kaland Kethal		
Report Approved By:	Lacon C 110	Date:	12/1/2005

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

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas I, Ltd.

12600 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 915-563-1713

DUTTON Project Manager: KEN

Company Address: P.O. Box 3 & 1

Company Name BASIN ENV. SYC.

City/StatesZip: LOVINGTON NM 8826 &

Telephone No: (505) 441- 2124 Sampler Signature:

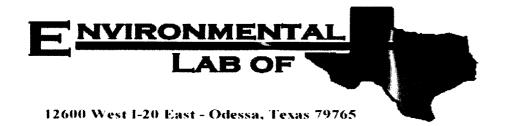
Fax No: (5 85) 369- 1429

Project # 15 1 2005 - 0021 8 Project Loc: LEA COUNTY NM POR PARID BRYANT Project Name: ZIA GRIZZELL

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Special Instructions:																	Ø 1∓ ⊆	duna	erate of	ontail are C	Sample Containers Intact? Temperature Upon Receipt 1 Monatory Comments:	Inta Rec	क हैं	X_{i}^{\pm}	V& :3	Q	z		
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Dient: Plains				
Date/Time: 11/23/05 16:00				
Order #: <u>5K28002</u>				
nitials:				
Sample Receipt	Checkli	< t		
Temperature of container/cooler?	Yes	No I	0.55 01	
Shipping container/cooler in good condition?	Yes	No		
Sustody Seals intact on shipping container/cooler?	18.66 I	No	Not cresent	
Sustody Seals intact on sample bottles?	Yes I	No	Not present	
Chain of custody present?	353	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yēs.	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No	{	
Samples properly preserved?	Yes,	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	1 Hes 1	No I		
Containers documented on Chain of Custody?	₹ €5	No I	(
Sufficient sample amount for indicated test?	Yes	No	i	
All samples received within sufficient hold time?	Y/es	No		
VOC samples have zero headspace?	(Pes	No	Not Applicable	
Contact Person: Date/Time: Regarding:			Contacted by: _	,
Corrective Action Taken:				



Analytical Report

Prepared for:

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

Project: Zia Grizzell 4" Idled Line Project Number: EMS: 2005-00210 Location: Lea County, NM

Lab Order Number: 5I16013

Report Date: 09/22/05

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample 1D	Laboratory to	MATLIX	Date Sampied	Date Received
West S/W	5116013-01	Soil	09/13/05 14:30	09/16/05 13:50
South S/W	5116013-02	Soil	09/13/05 14:45	09/16/05 13:50
East S/W	5116013-03	Soil	09/13/05 14:55	09/16/05 13:50
North S/W	5116013-04	Soil	09/13/05 15:15	09/16/05 13:50
FLR South	5116013-05	Soil	09/13/05 15:30	09/16/05 13:50
FLR North	5116013-06	Soil	09/13/05 15:45	09/16/05 13:50
STCKPL	5I16013-07	Soil	09/13/05 16:00	09/16/05 13:50

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

Organics by GC Environmental Lab of Texas

		Environ		40 01 10	Aus				
Anglista	Result	Reporting Limit	Units)	**
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West S/W (5I16013-01) Soil							*****		-
Benzene	J [0.0219]	0.0250	mg/kg dry	25	EI51903	09/19/05	09/19/05	EPA 8021B	
Toluene	0.213	0.0250	**	**	**	**	#	"	
Ethylbenzene	0.140	0.0250	*	*	*	"	*	n	
Xylene (p/m)	0.386	0.0250		*	•	**		Ħ	
Xylene (o)	0.105	0.0250	**	*	"	"	"		
Surrogate: a,a,a-Trifluorotoluene		81.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-1	20	"	n	"	"	
Gasoline Range Organics C6-C12	18.7	10.0	mg/kg dry	1	E151901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	122	10.0	**		#	**	#	ч	
Total Hydrocarbon C6-C35	141	10.0	**	er.	п	*	**	*	
Surrogate: 1-Chlorooctane		103 %	70-1	30	,,	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-1	30	"	"	n	"	
South S/W (5116013-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI51903	09/19/05	09/19/05	EPA 8021B	
Toluene	J [0.0222]	0.0250	•	и	v	*		*	į
Ethylbenzene	ND	0.0250	**	ч	"	н	n	**	
Xylene (p/m)	0.0457	0.0250	•	"	*	н	#	•	
Xylene (o)	ND	0.0250	•	"		#	*	**	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	80-1	20	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		86.7 %	80-1	20	"	n	n	#	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	75.4	10.0	"	**	п	•	*	Ħ	
Total Hydrocarbon C6-C35	75.4	10.0	н	"	n	*	•	н	
Surrogate: 1-Chlorooctane		102 %	70-1	30	"	,,	,,	"	
Surrogate: 1-Chlorooctadecane		111 %	70-1	30	"	"	"	,	
East S/W (5116013-03) Soil		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Benzene	ND	0.0250	mg/kg dry	25	EI51903	09/19/05	09/19/05	EPA 8021B	
Toluene	J [0.0228]	0.0250	11	*		**	•	•	
Ethylbenzene	0.0431	0.0250	*	н	**	Ħ	n	**	
Xylene (p/m)	0.106	0.0250	**	"	*		*	•	
Xylene (o)	0.0295	0.0250	17	*	**	11	#	•	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-1		"	n	n	"	
Gasoline Range Organics C6-C12	11.8	10.0	mg/kg dry	1	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	144	10.0			"	#	"	н	
Total Hydrocarbon C6-C35	156	10.0	**	,	,,	17	н	**	

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.

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
East S/W (5116013-03) Soil									
Surrogate: 1-Chlorooctane		96.2 %	70-	130	E151901	09/19/05	09/20/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		106 %	70-	130	"	,,	"	"	
North S/W (5116013-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI51903	09/19/05	09/19/05	EPA 8021B	
Toluene	ND	0.0250		*		#	P .	**	
Ethylbenzene	ND	0.0250	*	•	"	w	н	н	
Xylene (p/m)	0.0268	0.0250	"	"	*	#	*		
Xylene (o)	ND	0.0250	н	"	*	#	#	R	
Surrogate: a,a,a-Trifluorotoluene		82.7 %	80-	120	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		87.7 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	11.2	10.0	mg/kg dry	1	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	230	10.0	11	*		*	"		
Total Hydrocarbon C6-C35	241	10.0	**	*		**		*	
Surrogate: 1-Chlorooctane		99.2 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-	130	"	"	"	"	
FLR South (5I16013-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI51903	09/19/05	09/19/05	EPA 8021B	
Toluene	0.0540	0.0250	**	**			•	*	
Ethylbenzene	0.203	0.0250	*	*	*	"	"	*	
Xylene (p/m)	0.447	0.0250	*	*		**	н	*	
Xylene (o)	0.165	0.0250		**	*			**	
Surrogate: a,a,a-Trifluorotoluene		86.9 %	80-	120	"	"	"	#	<u></u>
Surrogate: 4-Bromofluorobenzene		94.7 %	80-	120	n	"	"	tr.	
Gasoline Range Organics C6-C12	143	50.0	mg/kg dry	5	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	1360	50.0	*	**		*	н		
Total Hydrocarbon C6-C35	1500	50.0	*	*			"	*	
Surrogate: 1-Chlorooctane		16.0 %	70-	130	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		20.4 %	70-	130	"	<i>"</i>	,,	"	S-06

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

Organics by GC Environmental Lab of Texas

<u>.</u> .		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FLR North (5116013-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E151903	09/19/05	09/20/05	EPA 8021B	
Toluene	ND	0.0250	"	*	"		**	"	
Ethylbenzene	0.0507	0.0250	"	•	"	•	**		
Xylene (p/m)	0.165	0.0250			"	H	"	u u	
Xylene (o)	0.0435	0.0250	,	н	н	10	11	н	
Surrogate: a,a,a-Trifluorotoluene		92.3 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.3 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	604	50.0	mg/kg dry	5	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	7700	50.0	11	"	n	"		**	
Total Hydrocarbon C6-C35	8300	50.0	*	**	п	"	11	•	
Surrogate: 1-Chlorooctane		21.8 %	70-1	30	,,	#	,	m .	S-0
Surrogate: 1-Chlorooctadecane		27.6 %	70-1	30	"	,,	"	"	S-0
STCKPL (5I16013-07) Soil									
Benzene	2.25	0.200	mg/kg dry	200	EI52006	09/20/05	09/20/05	EPA 8021B	
Toluene	26.8	0.200	#	*	•	*		n	
Ethylbenzene	39.1	0.200	**	*	*	н			
Xylene (p/m)	46.8	0.200	"	#	,	"	н	u u	
Xylene (o)	18.3	0.200		*		**	н	"	
Surrogate: a,a,a-Trifluorotoluene		157 %	80-1	20	"	n	"	n	S-0-
Surrogate: 4-Bromofluorobenzene		89.6 %	80-1	20	"	n	n	n	
Gasoline Range Organics C6-C12	6580	100	mg/kg dry	10	EI51901	09/19/05	09/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	18800	100	п	•	**	*	•	Ħ	
Total Hydrocarbon C6-C35	25400	100	"	"	*		•	Ħ	
Surrogate: 1-Chlorooctane		23.8 %	70-1	30	"	"	"	n	S-00
Surrogate: 1-Chlorooctadecane		13.4 %	70-1	30	"	"	"	"	S-0

Project: Zia Grizzell 4" Idled Line Project Number: EMS: 2005-00210

Project Number: EMS. 2003-00210
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
09/22/05 08:30

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West S/W (5116013-01) Soil									
% Moisture	2.5	0.1	%	1	E152002	09/20/05	09/20/05	% calculation	
South S/W (5116013-02) Soil									
% Moisture	1.7	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	
East S/W (5116013-03) Soil									
% Moisture	2.8	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	
North S/W (5116013-04) Soil									
% Moisture	6.2	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	
FLR South (5116013-05) Soil									
Chloride	38.2	5.00	mg/kg	10	EI52102	09/19/05	09/21/05	EPA 300.0	
% Moisture	1.4	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	
FLR North (5116013-06) Soil									
% Moisture	3.3	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	
STCKPL (5116013-07) Soil									
% Moisture	5.3	0.1	%	1	EI52002	09/20/05	09/20/05	% calculation	

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

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 EI51901 - Solvent Extraction (GC)								-		
Blank (EI51901-BLK1)				Prepared: (09/19/05	Analyzed: 09	0/20/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	Ħ							
Surrogate: 1-Chlorooctane	41.1		mg/kg	50.0		82.2	70-130			
Surrogate: 1-Chlorooctadecane	37.9		n	50.0		75.8	70-130			
LCS (EI51901-BS1)				Prepared: 0)9/19/05	Analyzed: 09	/20/05			
Gasoline Range Organics C6-C12	452	10.0	mg/kg wet	500		90.4	75-125			
Diesel Range Organics >C12-C35	440	10.0	77	500		88.0	75-125			
Total Hydrocarbon C6-C35	892	10.0	*	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	45.1		н	50.0		90.2	70-130			
Calibration Check (EI51901-CCV1)				Prepared: (09/19/05	Analyzed: 09	/20/05			
Gasoline Range Organics C6-C12	433		mg/kg	500		86.6	80-120			
Diesel Range Organics >C12-C35	422		"	500		84.4	80-120			
Total Hydrocarbon C6-C35	855		**	1000		85.5	80-120			
Surrogate: 1-Chlorooctane	54.6		"	50.0		109	0-200			
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	0-200			
Matrix Spike (EI51901-MS1)	Sour	rce: 5116012	01	Prepared: 0	9/19/05	Analyzed: 09	/20/05			
Gasoline Range Organics C6-C12	448	10.0	mg/kg dry	513	42.6	79.0	75-125			
Diesel Range Organics >C12-C35	1200	10.0	•	513	607	116	75-125			
Total Hydrocarbon C6-C35	1650	10.0	"	1030	650	97.1	75-125			
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	61.2		,,	50.0		122	70-130			
Matrix Spike Dup (EI51901-MSD1)	Sour	rce: 5116012-	01	Prepared: 0	09/19/05 /	Analyzed: 09	/20/05			
Gasoline Range Organics C6-C12	510	10.0	mg/kg dry	513	42.6	91,1	75-125	12.9	20	
Diesel Range Organics >C12-C35	1180	10.0	Ħ	513	607	112	75-125	1,68	20	
Total Hydrocarbon C6-C35	1690	10.0		1030	650	101	75-125	2.40	20	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	61.2		n	50.0		122	70-130			

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

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
	i count	Limit	- Canto			, UKBC	2			
Batch EI51903 - EPA 5030C (GC)				 					<u> </u>	
Blank (EI51903-BLK1)				Prepared &	Analyzed	09/19/05				
Benzene	ND	0.0250	mg/kg wet							
Toluene Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	80.8		ug/kg	100		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	86.9		"	100		86.9	80-120			
LCS (EI51903-BS1)				Prepared &	Analyzed:	09/19/05				
Benzene	83.8		ug/kg	100		83.8	80-120			
Toluene	91.1		•	100		91.1	80-120			
Ethylbenzene	105			100		105	80-120			
Xylene (p/m)	199		•	200		99.5	80-120			
Xylene (o)	104		**	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	92.1		"	100		92.1	80-120			
Surrogate: 4-Bromofluorobenzene	99.4		"	100		99.4	80-120			
Calibration Check (EI51903-CCV1)				Prepared: (9/19/05 A	nalyzed: 09	/20/05			
Benzene	100		ug/kg	100		100	80-120			
Toluene	101		•	100		101	80-120			
Ethylbenzene	103		*	100		103	80-120			
Xylene (p/m)	209		*	200		104	80-120			
Xylene (o)	107			100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.3		#	100		95.3	0-200			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	0-200			
Matrix Spike (EI51903-MS1)	Sou	rce: 5I15013-	-04	Prepared: (9/19/05 A	nalyzed: 09	/20/05			
Зеплепе	89.4		ug/kg	100	ND	89.4	80-120			
Coluene	92.2		"	100	ND	92.2	80-120			
Ethylbenzene	95.1			100	ND	95.1	80-120			
Kylene (p/m)	189			200	ND	94.5	80-120			
Kylene (o)	88.7		•	100	ND	88.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	91.4		"	100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

Organics by GC - Quality Control Environmental Lab of Texas

Anghita	D 1	Reporting	I Imie-	Spike	Source	0/DEC	%REC	por	RPD Limit	Mar
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI51903 - EPA 5030C (GC)										
Matrix Spike Dup (EI51903-MSD1)	Sour	ce: 5I15013-	-04	Prepared: (09/19/05 Aı	nalyzed: 09	1/20/05			
Benzene	96.0		ug/kg	100	ND	96.0	80-120	7.12	20	
Toluene	98.0		*	100	ND	98.0	80-120	6.10	20	
Ethylbenzene	86.0		*	100	ND	86.0	80-120	10.0	20	
Xylene (p/m)	166		*	200	ND	83.0	80-120	13.0	20	
Xylene (o)	81.8		*	100	ND	81.8	80-120	8.09	20	
Surrogate: a,a,a-Trifluorotoluene	101		,	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	89.2		"	100		89.2	80-120			
Batch EI52006 - EPA 5030C (GC) Blank (EI52006-BLK1)				Prepared &	k Analyzed:	09/20/05				
Benzene	ND	0.0250	mg/kg wet	r			-			
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	*							
Surrogate: a,a,a-Trifluorotoluene	94.2		ug/kg	100		94.2	80-120		-	
Surrogate: 4-Bromofluorobenzene	95.6		"	100		95.6	80-120			
LCS (EI52006-BS1)				Prepared &	k Analyzed:	09/20/05				
Benzene	102		ug/kg	100		102	80-120			
Toluene	103		**	100		103	80-120			
Ethylbenzene	94.7		**	100		94.7	80-120			
Xylene (p/m)	187		"	200		93.5	80-120			
Xylene (o)	83.7		"	100		83.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	106		,,	100		106	80-120			

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

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 EI52006 - EPA 5030C (GC)					·					
Calibration Check (EI52006-CCV1)				Prepared &	& Analyzed:	09/20/05				
Benzene	100		ug/kg	100		100	80-120	, , , , , , , , , , , , , , , , , , , ,		
Toluene	101		"	100		101	80-120			
Ethylbenzene	103		n	100		103	80-120			
Xylene (p/m)	209		**	200		104	80-120			
Xylene (o)	107		**	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.3		"	100		95.3	0-200			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	0-200			
Matrix Spike (EI52006-MS1)	Sou	rce: 5I19028-	-02	Prepared &	& Analyzed:	09/20/05				
Benzene	2.36	0,0250	mg/kg dry	2.52	ND	93.7	80-120			
Toluene	2.43	0.0250		2.52	0.0243	95.5	80-120			
Ethylbenzene	2.27	0.0250	•	2.52	ND	90.1	80-120			
Xylene (p/m)	4.40	0.0250	•	5.04	0.0440	86.4	80-120			
Xylene (o)	2.08	0.0250	•	2.52	ND	82.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.5		ug/kg	100		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	95.8		"	100		95.8	80-120			
Matrix Spike Dup (EI52006-MSD1)	Sou	rce: 5I19028-	-02	Prepared &	& Analyzed:	09/20/05				
Benzene	2,43	0.0250	mg/kg dry	2.52	ND	96.4	80-120	2.84	20	
Toluene	2.49	0.0250	**	2.52	0.0243	97.8	80-120	2.38	20	
Ethylbenzene	2.33	0.0250	*	2.52	ND	92.5	80-120	2.63	20	
Xylene (p/m)	4.51	0.0250		5.04	0.0440	88.6	80-120	2.51	20	
Xylene (o)	2.12	0.0250	*	2.52	ND	84.1	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	95.5		ug/kg	100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	97.6		"	100		97.6	80-120			

Project: Zia Grizzell 4" Idled Line

Project Number: EMS: 2005-00210 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 09/22/05 08:30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch El52002 - General Preparation (Prep)										
Blank (EI52002-BLK1)				Prepared &	k Analyzed	: 09/20/05				
% Solids	100		%							
Duplicate (EI52002-DUP1)	Sou	rce: 5I16003-0)1	Prepared &	2 Analyzed	: 09/20/05				
% Solids	96.4		%		96.8			0.414	20	
Duplicate (EI52002-DUP2)	Sou	rce: 5I16011-0)2	Prepared &	k Analyzed	: 09/20/05				
% Solids	99.1		%		98.8			0.303	20	
Duplicate (EI52002-DUP3)	Sou	rce: 5I16015-1	11	Prepared &	2 Analyzed	: 09/20/05				
% Solids	98.7		%		98.6			0.101	20	
Batch El52102 - Water Extraction										
Blank (EI52102-BLK1)				Prepared: (09/19/05 A	nalyzed: 09	/21/05			
Chloride	ND	0.500	mg/kg							
LCS (EI52102-BS1)				Prepared: (09/19/05 A	nalyzed: 09	0/21/05			
Chloride	8.74		mg/L	10.0		87.4	80-120			
Calibration Check (EI52102-CCV1)				Prepared: (09/19/05 A	nalyzed: 09	0/21/05			
Chloride	8.44		mg/L	10.0		84.4	80-120			
Duplicate (EI52102-DUP1)	Sou	rce: 5I16013-()5	Prepared: (09/19/05 A	nalyzed: 09	0/21/05			
Chloride	38.9	5.00	mg/kg		38.2		i	1.82	20	

 Plains All American EH & S
 Project:
 Zia Grizzell 4" Idled Line
 Fax: (432) 687-4914

 1301 S. County Road 1150
 Project Number:
 EMS: 2005-00210
 Reported:

 Midland TX, 79706-4476
 Project Manager:
 Camille Reynolds
 09/22/05 08:30

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

	Kaland KJulis		
Report Approved By:	Karan C 110	Date:	9/22/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

Environmental Lab of Texas I, Ltd.

12500 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 916-563-1713

Juttor

Company Name BASIN ENV. SUSV. Project Manager:

Company Address: P. D. BOX 3 # 1

CHYISTANGZIP: LOVING-TON MM 88265 Tolephone No: (595) 44152124

Sampler Signature:

FRX NO. [595] 396-1429

Project #: EMS' 2005-00210 PO# PHH/ C. NEYWOLDS CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Project Loc: LEA COUNTY, NM D. BRYANT Project Name: 4" IDLED LINE

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						a.	Preservative	ative		2	Matrix	90			95		_			3	 -		
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CAB # (lab pise only)	FIELD CODE		e) Bate	əmiT	No. ov	⁶ ОИН	N¢OH HCI	'OS'H	None Other (Water Skidge	Soil					editaloV.	S X318	RCI	M.R.O.N	Total Ga		козн	sbrats
-0 WEST S	(16)		13 SEP	1430	1 1						X	X					X						×
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Special Instructions:														Samp	Sample Containers Intact? Temperature Upon Receipt	taine Cpd	rs int	act 2		<i>(</i>)	2		
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Relinquished by:	Date		Received by ELOT.	OT		4				Date		Time	92							**			
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

client: Plains		-		
Date/Time: 9/16/05 (:45				
Order#:ST(60]3				
nitials:				
Sample Po	agint Chankl	int		
Temperature of container/cooler?	ceipt Checkl	No	1.6	
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Ø€6	No	Not present	
Chain of custody present?	(Ze3)	No	1100 p.000	
Sample Instructions complete on Chain of Custody?	(ZS)	No		
Chain of Custody signed when relinquished and received?				•
Chain of custody signed when remindustried and received: Chain of custody agrees with sample label(s)	YES	No		
Contain of custody agrees with sample label(s) Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody		No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	(ES)	No		
Sample bottles intact?	(E)	No		
Preservations documented on Chain of Custody?	· Cas	No		
Containers documented on Chain of Custody?	YES	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?		No		
VOC samples have zero headspace?	Y66	No	Not Applicable	
Other observations:				
			Contacted by: _	
Corrective Action Taken:				
	Thursday,	·		
			·	
			ووالات وسند معمد المحاصر عن زوات المجموعين ويسند عبد عبد المحاصر المحادث المحادث	
		·		

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1301 W. Grand Avenue, Artesia, NM 88210
District IIII
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised October 10, 2003

Release Notification and Corrective Action

			Ken	ease mounic	auv	OPERA:		_	Z Initia	al Report	П	Final Report	
Name of Co	mpany	Plains Pipeline, LP				Contact							
Address		P.O. Box 3119 – Midland, Tx 79702				Telephone No. (432) 557-5865							
Facility Nar	ne	Zia Grizzell	Line	[Facility Type Pipeline								
Surface Ow	ner Apache	e Corporation	Mineral O	wner	Leas				No.				
LOCATION OF RELEASE													
Unit Letter	Section	Township	Panas	Feet from the		N UF REI	Feet from the	East/We	et Line	County	·····		
P 8		Township Range Feet from 22S 37E		rect nom the	HOLU	/ South Time	rect nom the	Last WC	St Line	Lea			
								<u></u>					
			L	atitude N 32° 24	4' 10.7	" Longitude	W 103° 10' 3	8.7"					
NATURE OF RELEASE													
Type of Rele		r Crude Oil	Volume of Release 40 bbls Volume Recovered 30 bbls										
Source of Re	lease 4"	steel idled line							Hour of Discovery				
Was Immedia	ate Notice (Fiven?			09/05/2005 10:30 09/05/2005 11:00 If YES, To Whom?								
was minicul	101100		No 🗌 Not Re	equired									
By Whom?	Camille Re	ynolds	Date and Hour 09/05/2005 14:50 / 57 57										
Was a Water		ched?	If YES, Volume Impacting the Watercourse.										
☐ Yes ☒ No							8 6 6 6 6						
If a Watercourse was Impacted, Describe Fully.*													
										.	•		
Describe Cause of Problem and Remedial Action Taken.* Recent pipeline work caused a collar to break on the idled Zia Grizzell 4" steel pipeline. Line was cut and capped to mitigate the release. Due to the line													
being idled at time of release, the pressure of the line was 0 lbs and had no throughput on the pipeline. The gravity of the crude oil is 37.1 @ 65°. H ₂ S													
content is <10 ppm. Line depth is approximately 2.5' at the release source.													
					***************************************	~							
		and Cleanup A				000 02							
		e pipeline relea nediated per N		red 45° X 24° yield uidelines.	aing 1,	∪8∪ π⁻.							
I hereby certi	fy that the i	nformation gi	ven above	is true and compl	lete to 1	the best of my	knowledge and u	nderstand	that purs	suant to NM	OCD n	iles and	
				nd/or file certain re									
should their o	or the envi perations h	ronment. The lave failed to a	acceptano dequately	ce of a C-141 repo investigate and re	rt by th	te NMOCD m te contaminati	arked as "Final R on that nose a thr	.cport" doc eat to erou	s not reli	ieve the oper	ator of ter hur	liability	
or the enviror	ment. In a	ddition, NMO	CD accep	tance of a C-141									
federal, state,	or local lav	ws and/or regu	lations.		-								
_	^	- A	OIL CONSERVATION DIVISION										
Signature:	and	But											
Printed Name	: Daniel B	Bryant		Approved by District Supervisor:									
Title: Enviro			***************************************		Approval Date:			Expiration Date:					
E-mail Address: dmbryant@paalp.com						Conditions of Approval:							
i	1				Conditions of Approvat:			Attached					
	Date: 995 Phone: (432) 557-5865												
Attach Addi	ional Shee	ts If Necessa	arv										