STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES Plaina nosogle

13 September 2005

Mr. Larry Johnson, **Environmental Engineer Specialist** New Mexico Oil Conservation Division 1625 North French Drive Hobbs, NM 88240

RE: **Closure Report for Plains Marketing, L.P.** Eunice Booster to Lea – 6" Loop Line UL-L, NW¼ of the SW ¼ of Section 4, T21S, R36E Latitude N 32° 30' 44.8" and Longitude W 103° 16' 37.6" Plains EMS No.: 2004-00198

Dear Mr. Johnson:

In September 2004, a release occurred along the Plains Marketing, L.P. Eunice Booster to Lea -6" Loop Line. The release of approximately 30 barrels of crude oil, of which 3 barrels were recovered, occurred due to external corrosion of the 6-inch line. Basin Environmental responded to the release on September 16, 2004 to excavate the release point and install a clamp. Basin Environmental continued excavation activities at the site through September 23, 2004, excavating approximately 400 cubic yards (cy) of impacted soil from the release area, the flow path area and the pooling area. The excavated soil was stockpiled on plastic, until a determination could be made as to the remedial method to be utilized to treat the impacted soil. Field analyses of soil samples collected from the excavation areas, utilizing a photoionization detector (PID), indicated that soil impacted above the remedial guideline of 100 parts per million (ppm) via field analyses had been removed from the release area; however, soil impacted above the remedial guidelines remained in the flow path and pooling area.

Plains Marketing, L.P. retained Environmental Plus, Inc. (EPI) in November 2004 to finish excavating the impacted soil at the site and provide remediation services. This letter report documents the results of the excavation activities and remediation of the impacted soil and recommends the excavation be backfilled.

Site Background

The site is located in the NW¹/₄ of the SW¹/₄ of Section 4, Township 21 South, Range 36 East at an elevation of approximately 3,565 feet above mean sea level (reference Figures 1 and 2). The property is owned by the state of New Mexico. A search for area water wells was completed utilizing the New Mexico Office of the State Engineers website. A total of 6 wells were found to be located in the vicinity of the release (i.e., within the eight sections immediately surrounding the subject-property section). The average depth to water in these wells was reported to be approximately 140 feet (reference Table 2). No water supply wells or bodies of

surface water were found to be located within a 1,000-foot radius of the release location (reference *Figures 1 and 2*). Based on available information it was determined that the distance between the contamination and groundwater was >100 feet. Utilizing this information, it was determined that the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this site are as follows:

Parameter	Remedial Goal
Benzene	10 parts per million
BTEX	50 parts per million
TPH	5,000 parts per million

It should be noted that initially, the remedial guidelines were believed to be 1,000 milligrams per kilogram (mg/Kg) based on initial research of depths to groundwater. It was not until excavation activities had been completed that it was determined the depth to groundwater in the area was approximately 140 feet, resulting in approximately 125 feet between the lowest detectable levels of contaminants and the uppermost groundwater bearing unit.

Field Work

EPI was on site from November 1 - 8, 2004 to excavate impacted soil from the flow path and the pooling area (reference Figure 3). Approximately 2,520 additional cubic yards of hydrocarbon impacted soil were excavated and stockpiled on plastic until a determination could be made as to the remedial method to be utilized to treat the impacted soil.

During excavation activities, samples were collected and analyzed in the field utilizing a MiniRae[®] photoionization detector (PID) equipped with a 9.8 electron volt (eV) lamp to indicate when remedial goals had been achieved. Once field analyses indicated soil impacted above the remedial guidelines had been removed, confirmation soil samples were collected from the sidewalls and bottom of the excavation and submitted to Environmental Labs of Texas (ELT) for quantification of benzene, toluene, ethylbenzene, and total xylenes (BTEX), gasoline range organics (GRO) and diesel range organics (DRO).

Initial analytical results indicated soil impacted above the NMOCD remedial guidelines for total petroleum hydrocarbons (TPH) in the south and west sidewalls of the excavation. Based on this, additional excavation activities occurred on December 1, 2004. An additional 100 cubic yards of soil were excavated from the south and west sidewalls of the excavation and samples collected and analyzed in the field for the presence of organic vapors. Field analyses indicated remedial goals had been achieved, so samples were collected and submitted to ELT for quantification of GRO and DRO.

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On December 13, 2004, two soil samples were collected from the stockpiled soil and submitted to ELT for quantification of BTEX, GRO and DRO. Based on analytical results of the samples collected from the stockpiled soil it was determined that to remediate the stockpiled soil, approximately 50% of the soil would be transported to Plains Pipeline's Lea Station Landfarm and the remainder blended with clean soil obtained from an offsite source.

Approximately 1,550 cubic yards of hydrocarbon impacted soil were transported to Plains Pipeline's Lea Station Landfarm from February 7 through March 3, 2004 for treatment. The same volume of clean soil was transported to the site and blended with the remaining 1,370 cubic yards of impacted soil.

Upon completion of the blending activities, the stockpiled blended soil was sampled by advancing a series of hand borings in each of the three stockpiles. The stockpiles were split into four quadrants and a soil boring advanced in each quadrant. Soil samples were collected from 3, 6 and 9 feet below the surface and screened in the field for the presence of organic vapors utilizing a MiniRae[®] PID equipped with a 9.8 electron volt (eV). Field analyses indicated the presence of organic vapors ranging from 24.4 parts per million (ppm) to 212 ppm. The samples from each boring were combined to form a composite sample. The composite samples from each boring were combined to form an adjacent boring and submitted to ELT for quantification of TPH and BTEX. Composite samples from hand augers BH1 and BH2 from each stockpile were combined to form three composite samples (i.e., north, middle and south stockpiles) and composite samples from hand augers BH3 and BH4 were combined to form three additional composite samples (i.e., north, middle and south stockpiles). In addition, the sample which exhibited the highest PID reading (i.e., NBH2 (6')) was also submitted to Environmental Lab of Texas for quantification of TPH and BTEX.

Upon receipt of approval from the NMOCD, the site was backfilled with the blended soil, graded and contoured to allow natural drainage.

Analytical Data

Analytical results for the samples collected on November 8, 2004 (i.e., the initial sampling event) indicated soil impacted above the NMOCD remedial goals had been excavated with the exception of the west and south sidewalls of the north excavation. Analytical results for the samples collected from the west and south sidewall indicated TPH concentrations of 2,980 milligrams per kilogram (mg/Kg) and 1,510 mg/Kg, respectively (reference *Table 1*). Benzene and BTEX concentrations were reported at concentrations below the NMOCD remedial guidelines for both these samples. However, at the time these samples were collected, the NMOCD remedial threshold for TPH was projected to be 1,000 mg/Kg. Additional research completed subsequent to the collection of these samples revealed the depth to groundwater to be approximately 140 feet

bgs, not the 100 feet originally assumed. Therefore, the contaminant concentrations were below the NMOCD remedial thresholds for this site.

Analytical results for the samples collected from the west and south sidewalls of the south excavation on December 1, 2004, indicated soil impacted above the NMOCD remedial goals had been removed. TPH concentrations for the south and west sidewalls were 6.70 mg/Kg and 205 mg/Kg, respectively (reference *Table 1*).

Analytical results for the soil samples collected from the contaminated soil stockpiled on December 13, 2004, indicated BTEX concentrations of 47,500 micrograms per kilogram (ug/Kg) in the sample collected from the southeast portion of the stockpiled soil and 68,100 ug/Kg in the sample collected from the southwest portion of the stockpiled soil. TPH concentrations for these samples were reported at 12,400 milligrams per kilogram (mg/Kg) and 15,500 mg/Kg, respectively.

Analytical results for the soil samples collected from the blended stockpiled soil on April 28, 2005, indicated benzene concentrations ranging from non-detectable to 15.5 ug/Kg, BTEX concentrations ranging from 282 ug/ Kg to 1,220 ug/Kg and TPH concentrations ranging from 847 mg/Kg to 1,370 mg/Kg (reference *Table 1*). All analytical results for the samples collected from the blended soil stockpiles were below the NMOCD remedial thresholds for this site.

Conclusions

Based on field and laboratory analytical results, soil impacted above the NMOCD remedial guidelines has been excavated from the release area/flow path/pooling area. In addition, approximately 1,550 cubic yards of hydrocarbon impacted soil were transported to Plains Pipeline's Lea Station Landfarm for treatment. An equivalent amount of clean soil was hauled to the site and blended with the remaining impacted soil. Field and analytical results indicated that the soil has been blended to below NMOCD remedial thresholds. Final remedial activities included backfilling the excavation with blended soil, grading and contouring the site to allow for natural drainage. The remaining remedial activity of seeding the area with a SLO approved seed mixture will be performed upon closure of the site by the NMOCD.

Recommendations

EPI, on behalf of Plains Marketing, L.P., recommends the site be closed and request "no further action" required except for seeding with a blend approved by the State Land Office. In addition, Plains All American Pipeline, L.P., requests that a "no further action" letter be issued.

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Mr. Larry Johnson 13 September 2005

Should you have any questions or concerns, please feel free to contact me at (505) 394-3481 or via e-mail at <u>iolness@envplus.com</u>. Upon your approval, EPI will initiate the next phase of the remediation. All official correspondence should be submitted to Camille Reynolds at:

Camille Reynolds, Remediation Coordinator Plains All American Pipeline, L.P. 3112 West Highway 82 Lovington, NM 88260

(505) 441-0965 cjreynolds@paalp.com

Sincerely,

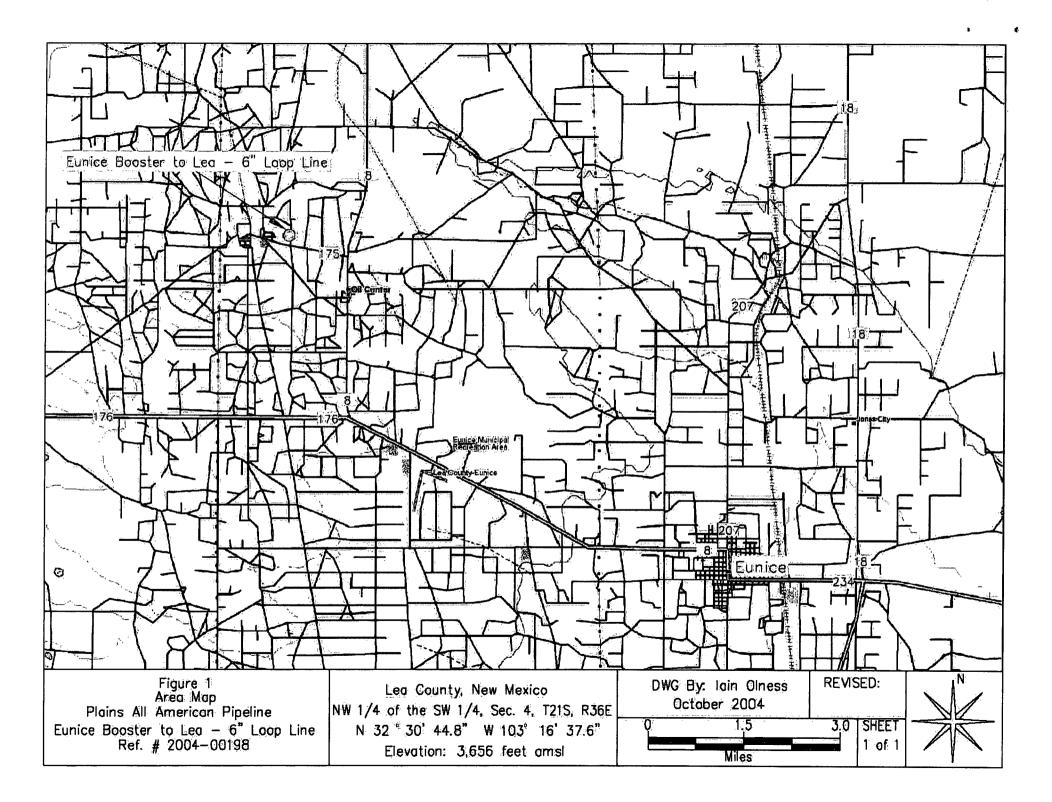
ENVIRONMENTAL PLUS, INC.

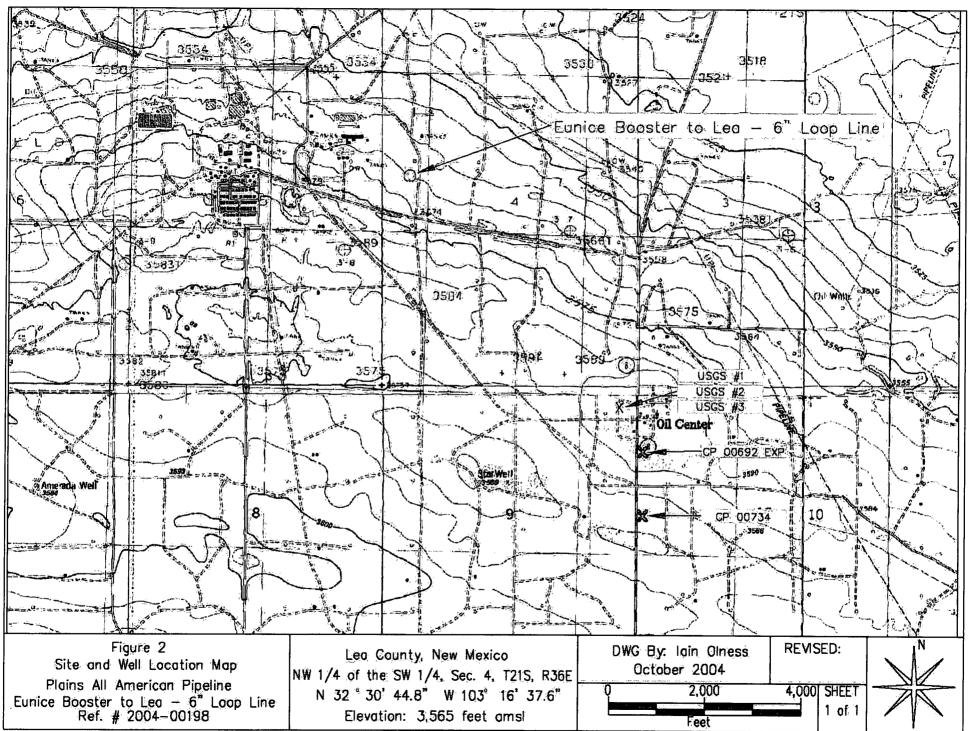
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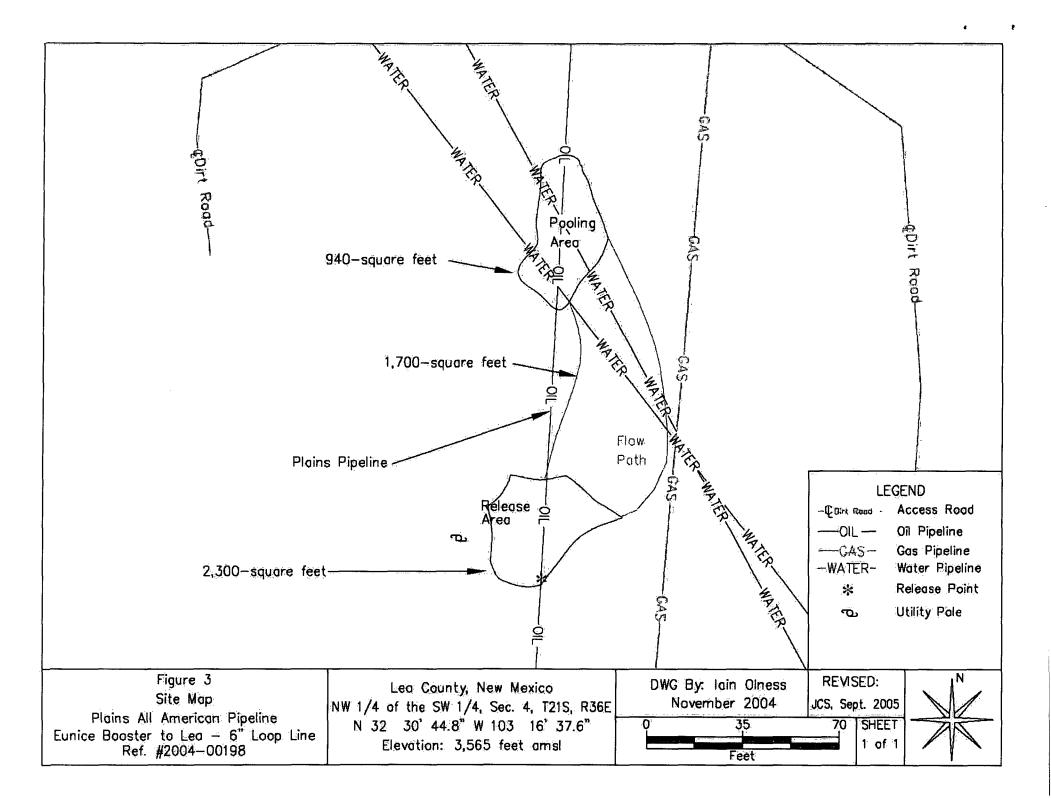
Iain A. Olness, P.G. Hydrogeologist

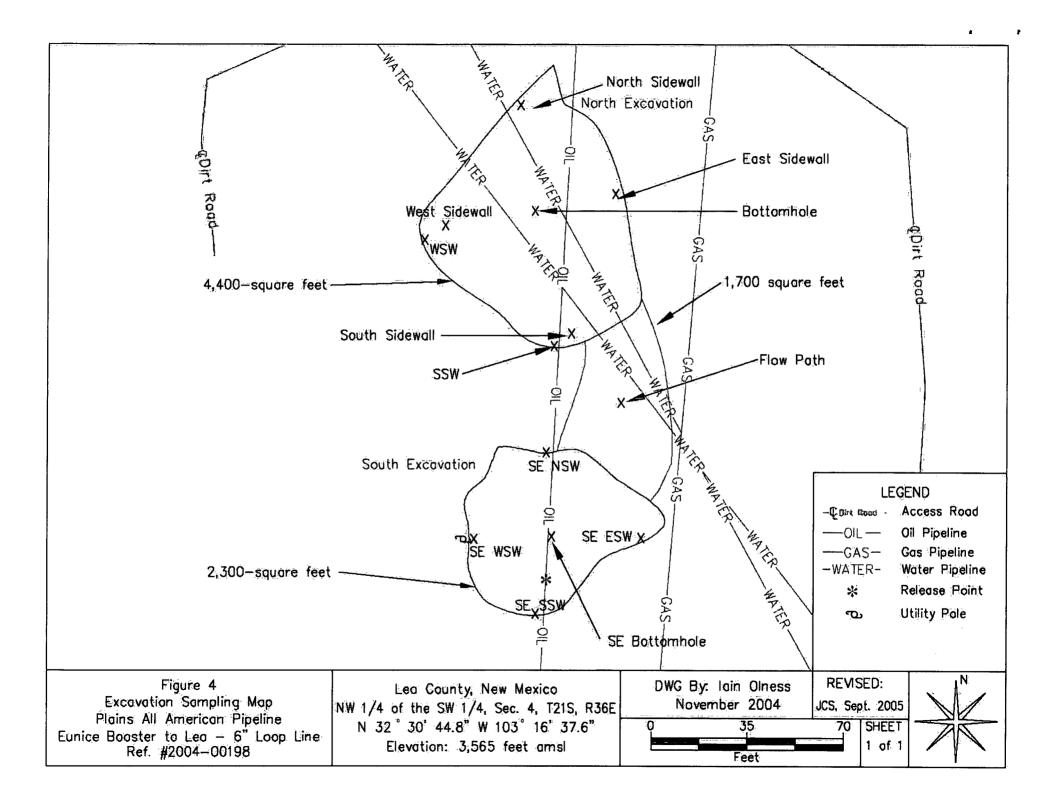
- cc: Camille Reynolds, Plains Lovington, NM Jeff Dann, Plains – Houston, TX Cody Morrow- New Mexico State Land Office – Sante Fe, NM Myra Myers, New Mexico State Land Office – Hobbs, NM File
- encl. Figure 1 Area Map Figure 2 – Site Location Map Figure 3 – Site Map Figure 4 – Excavation Sampling Map Table 1 – Summary of Soil Analytical Results Table 2 – Well/Surface Data Report – 11/09/04 Attachment I – Laboratory Results and Chain-of-Custody Forms Attachment II – Copy of Initial C-141

FIGURES









TABLES

TABLE 1

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Summary of Soil Analytical Results

Plains All American Pipeline Eunice Booster to Lea - 6" Loop Line - Ref. #2004-00198

Sample ID	Sample Date	PID Reading	Benzene (#2/Kg)	Toluene (44/Kg)	Éthylbenzene (49/Kg)	m,p-Xylenes	o-Xylene (uz/Kg)	Total BTEX	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH
North Sidewall	08-Nov-04	NA	<25	16.2	17.1	57.0	12.1	102	25.3	655	680
East Sidewall	08-Nov-04	NA	<25	<25	<25	49.2	15.7	64.9	18.1	189	207
South Sidewall	08-Nov-04	NA	46.0	173	360	1,100	369	2.048	219	1.290	1,510
West Sidewall	08-Nov-04	NA	<25	24.2	37.6	103	27.9	193	14.7	2,960	2,980
Bottomhole	08-Nov-04	NA	16.3	92.9	186	531	159	985	76.8	542	619
Flow Path	08-Nov-04	10.2	<25	17.8	32.0	148.0	56.7	255	27.6	271	299
SE NSW	08-Nov-04	14.9	<25	30.1	.43.4	82.9	34.0	190	32.4	162	194
SE SSW	08-Nov-04	5.7	<25	<25	<25	<25	<25	<125	<10	<10	<10
SE ESW	08-Nov-04	5.1	<25	<25	<25.	<25	<25	<125	<10	<10	<10
SE WSW	08-Nov-04	7.7	<25	<25	<25	<25	<25	<125	<10	<10	<10
SE BH	08-Nov-04	13.2	<25	<25	<25.	<25	<25	<125	15:4	103	118
SSW	01-Dec-04	86.9	NA	NA	NA	NA	NA	NA	<10.0	6.70	6.70
WSW	01-Dec-04	10.9	NA	NA	NA	NA	NA	NA	13.2	192	205
SE Stockpile	13-Dec-04	NA	743	5,950	7,350	25,400	8,100	47,500	2,570	9,790	12,400
SW Stockpile	13-Dec-04	NA	1,650	12,500	10,700	33,200	10,000	68,100	3,310	12,200	15,500
E Half of M Stockpile	28-Apr-05	NA	15.5 ⁴	93.5	121	203	110	543	206	1,160	1,370
W Half of M Stockpile	28-Apr-05	NA	<25.0	41.6	68:2	1'16	56.0	282	132	881	1,010
NBH2 (6')	28-Apr-05	NA	<25.0	102	150	247	146	645	200	1,010	1,210
S Half of N Stockpile	28-Арг-05	NA	≪25:0	54.0	96.5	133	97.0	381	121	726	847
E Half of S Stockpile	28-Apr-05	NA	11 :3 ⁴	132	160	707	206	1,220	203	1,030	1,230
W Half of S Stockpile	28-Apr-05	NA	<25.0	111	160	:655:	178	1,104	223	1,120	1,340
N Half of N Stockpile	28-Apr-05	NA	13.34	129	154	624	143	1,060	207	887	1,090
NMOCD Remed	ial Thresholds	1003	10,000				6	50,000			5,000

¹ Red. bolded values are in excess of the NMOCD Remediation Thresholds.
² NA: Not Analyzed
³ Di lieu of Jaboratory analysis of benzene, toluene, ethylbenzene and total xylenes.

TABLE 2

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WELL / SURFACE DATA REPORT - 10/28/04*

Plains All American Pipeline Ennice Booster to Lea - 6" Loop Line (Ref #200-00198)

Well Number	Diversion ^A	Owner	Use	Source	Twsp	Rng	Sec q q q.	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
USGS#1		We and the second s	S 2 2 4 4 6 7	The stranger of the	218	36 W	9 222	Januar & Antonio a di a di	the left in fact, in the second	18-Mar-68	e 3,595	119.36
USGS#2	Friday Carlo	Contraction of the second		andra andra	24 S. 3	36 W	9 222	and the second second	Pre tos a Marine	28-Reb-96	3,595	200.43
USGS#3			C. Standol and States of	Pro Property	2118	36 W	9 222			20-Mar-86	3,595	203.72
CP 00692 EXP	0	W. L. Van Noy	DOM	her and the second	21/8	- 36 E.	10. 113	N 32° 29' 48.76"	W 103°-15"40 54"	18.44	3,595	
- CP 00734	1 1 1 1	W.L. Van Noy	DOM	Shallow	21 8	36 E	10 1	N 329 29 35.71"	W 103º 15' 40.54/	22+Jun-88-	3.585	2 00 ::
USGS #4			· . ·		20 S	37 E	31 4 4 4	1		1-Mar-61	3,540	36.73
USGS #5					20 S	37 E	31 3 2 2	5		15-Jan-71	3,535	79.07
L 07108 EXP	0	Northern Natural Gas	SAN		20 S	37 E	33 122	N 32º 31' 58.89"	W 103° 15' 36.82"		3,520	
L 07355	3	Northern Natural Gas	SAN	Shallow	20 S	37 E	33 122	N 32º 31' 58.89"	W 103º 15' 36.82"	4-Jul-75	3,530	120
L 08157	3	Northern Natural Gas	SAN	Shallow	20 S	37 E	33 122	N 32º 31' 58.89"	W 103º 15' 36.82"	8-Oct-79	3,530	275
CP 00475 EXP	0.	Ross Robinson	STK		21 S	36 E	30 4 2 2	N 32º 26' 46.01"	W 103º 17' 59.18"		3,620	
CP 00484 (E)	3	Northern Natural Gas	SAN	Shallow	21-S	36 E	25 4 2	N 32º 26' 45.99"	W 103° 12' 51.03"	20-Jul-70	3,535	148
CP 00490 EXP	0	U. R. Cattle Company	STK		21 S	36 E	19 2 3	N 32º 27' 51.41"	W 103º 18' 14.75"		3,650	
CP 00505	3.	Snyder Ranches, Ltd.	STK	· · · · · · · · · · · · · · · ·	21 S	36 E	16 2	N 32º 28' 43.53"	W 103º 16' 11.43"	10-Jul-72	3,605	195
CP 00664	. 3	Dove Broadcasting, Inc.	SAN	Shallow	21 S	36 E	23 2	N 32º 27' 51.27"	W 103º 14' 7.98"	25-May-84	3,537	150
CP 00676	0	Joe E. Sims	DOM	Shallow	21 S	36 E	18 4 4 1	N 32º 28' 17.46"	W 103° 17' 59.37"	30-Apr-93	3,570	106
CP 00685 ENLRG	0	Will J. McCasland	COM		21 S	36 E	11 42	N 32º 29' 22.71"	W 103º 13' 52.54"		3,565	
CP 00685 (1) EXP	0	Chevron USA, Inc.	PRO		21 S	36 E	11 4 2	N 32° 29' 22.71"	W 103º 13' 52.54"		3,565	
CP 00882	3	Laymond Smith	DOM		21 S	36 E	23 2	N 32º 27' 51.27"	W 103º 14' 7.98"		3,537	<i>μ</i>

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServiet1)

Shaded well information indicates well location shown on Figure 2

A = in acre feet per annum

^B=Elevation interpolated from USGS topographical map based on referenced location.

DOM = Domestic

SAN = Sanitary

STK = Livestock Watering

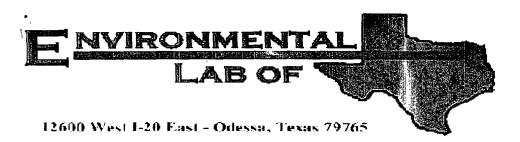
COM = Commercial

EXP = Expired

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

ATTACHMENT I

LABORATORY RESULTS AND CHAIN-OF-CUSTODY FORMS



Analytical Report

Prepared for:

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

Project: Eunice Booster to Lea 6 Project Number: 2004-00198 Location: None Given

Lab Order Number: 4K09002

Report Date: 11/12/04

. 1				
	Plains All American EH & S	Project:	Eunice Booster to Lea 6	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	2004-00198	Reported:
	• Midland TX, 79706-4476	Project Manager:	Camille Reynolds	11/12/04 16:18

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Side Wall	4K09002-01	Soil	11/08/04 08:45	11/09/04 09:25
East Side Wall	4K09002-02	Soil	11/08/04 08:55	11/09/04 09:25
South Side Wall	4K09002-03	Soil	11/08/04 09:05	11/09/04 09:25
West Side Wall	4K09002-04	Soil	11/08/04 09:15	11/09/04 09:25
Bottom Hole	4K09002-05	Soil	11/08/04 09:25	11/09/04 09:25
Flow Path	4K09002-06	Soil	11/08/04 10:00	11/09/04 09:25
SE NSW	4K09002-07	Soil	11/08/04 13:30	11/09/04 09:25
SE SSW	4K09002-08	Soil	11/08/04 13:40	11/09/04 09:25
SE ESW	4K09002-09	Soil	11/08/04 13:50	11/09/04 09:25
SE WSW	4K09002-10	Soil	11/08/04 14:00	11/09/04 09:25
SE BH	4K09002-11	Soil	11/08/04 14:10	11/09/04 09:25

Project: Eunice Booster to Lea 6 Project Number: 2004-00198 Project Manager: Camille Reynolds

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Side Wall (4K09002-01) Soil			2 H 1				······		
Benzene	ND	0.0250	mg/kg dry	25	EK41003	11/09/04	11/10/04	EPA 8021B	
Toluene	J [0.0162]	0.0250	"	"		"	11	н	ز
Ethylbenzene	J [0.0171]	0.0250		"	н	н	"	0	j
Xylene (p/m)	0.0570	0.0250	11	п		"	"		
Xylene (o)	J [0.0121]	0.0250		"	11	"	*1	н	-
Surrogate: a,a,a-Trifluorotoluene		91.1 %	80-1	120	17	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	25.3	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	655	10.0	"			н		"	
Total Hydrocarbon C6-C35	680	10.0	**	"		"	n	11	
Surrogate: 1-Chlorooctane		116 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-1	130	"	"	"	"	
East Side Wall (4K09002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	ND	0.0250		'n	'n	n	"	85	
Ethylbenzene	ND	0.0250	11	"		"	"		
Xylene (p/m)	0.0492	0.0250	"	"		,,	"		
Xylene (0)	J [0.0157]	0.0250	**	11		"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		93.7%	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-1	120	"	n	"	"	
Gasoline Range Organics C6-C12	18.1	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	189	10.0		11		п	11	"	
Total Hydrocarbon C6-C35	207	10.0	"	"	*	'n	19	**	
Surrogate: I-Chlorooctane		116 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-1	130	"	"	"	"	
South Side Wall (4K09002-03) Soil									
Benzene	0.0460	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	0.173	0.0250		"	tt	11	и	"	
Ethylbenzene	0.360	0.0250	н	н	"	"	u	н	
Xylene (p/m)	1.10	0.0250	n	и		"	11	'n	
Xylene (0)	0.369	0.0250	IJ	"	**	"	11	»	
Surrogate: a,a,a-Trifluorotoluene		122 %	80-1	120	"	"	"	"	S-0-
Surrogate: 4-Bromofluorobenzene		98.3 %	80-1	120	"	"	n	"	
Gasoline Range Organics C6-C12	219	50.0	mg/kg dry	5	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	1290	50.0	Ħ	и		н	"	11	
Total Hydrocarbon C6-C35	1510	50.0	"	"	*	"	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.

	Plains All American EH & S	Project: Eun	inice Booster to Lea 6	Fax: (432) 687-4914
Ĩ	1301 S. County Road 1150	Project Number: 200	04-00198	Reported:
ł	• Midland TX, 79706-4476	Project Manager: Can	mille Reynolds	11/12/04 16:18

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Diluti	Detab	Deserved	A		N
		Luill	Onits	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Side Wall (4K09002-03) Soil									
Surrogate: 1-Chlorooctane		26.4 %	70-1	130	EK40903	11 09 04	11 10 04	EPA 8015M	S-06
Surrogate: 1-Chlorooctadecane		30.2 %	70-1	30	"	"	**	"	S-06
West Side Wall (4K09002-04) Soil			_						
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	J [0.0242]	0.0250	'n	"	"	"	п	"	i
Ethylbenzene	0.0376	0.0250	"		"	"	"	n	
Xylene (p/m)	0.103	0.0250	n		н	*	и	"	
Xylene (o)	0.0279	0.0250	**		"	"	и	n	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		9 8.7 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	14.7	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	2960	10.0	11		"	"	"	11	
Total Hydrocarbon C6-C35	2980	10.0	"		**		"	"	
Surrogate: 1-Chlorooctane		101 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-1	30	"	"	"	"	
Bottom Hole (4K09002-05) Soil									
Benzene	J [0.0163]	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	1
Toluene	0.0929	0.0250			"	11		**	
Ethylbenzene	0.186	0.0250	**	*	"	"	n.		
Xylene (p/m)	0.531	0.0250	"	11	u		u	**	
Xylene (o)	0.159	0.0250	"	"	"		"	**	
Surrogate: a,a,a-Trifluorotoluene		98.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	80-1	20	"	"	0	"	
Gasoline Range Organics C6-C12	76.8	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	542	10.0	11	"	н	11	н	"	
Total Hydrocarbon C6-C35	619	10.0		н	и	"	u	"	
Surrogate: 1-Chlorooctane		98.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %	70-1	30	"	"	"	"	

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.

_	Plains All American EH & S	Project: Eunice Booster to Lea 6	Fax: (432) 687-4914
•	1301 S. County Road 1150	Project Number: 2004-00198	Reported:
1	Midland TX, 79706-4476	Project Manager: Camille Reynolds	11/12/04 16:18

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Flow Path (4K09002-06) Soil		· · · · · · · · · · · · · · · · · · ·		······					
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	J [0.0178]	0.0250	w	н	"	μ	'n	'n	
Ethylbenzene	0.0320	0.0250	"	"	"	"		"	
Xylene (p/m)	0.148	0.0250		"		"	"	"	
Xylene (0)	0.0567	0.0250	"	"	н	н	"		
Surrogate: a,a,a-Trifluorotoluene		93.7%	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-1	20	"	"	"	**	
Gasoline Range Organics C6-C12	27.6	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	271	10.0	н	11	м		"	"	
Total Hydrocarbon C6-C35	299	10.0		n	"	"		11	
Surrogate: 1-Chlorooctane		108 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-1	30	"	"	"	"	
SE NSW (4K09002-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	0.0301	0.0250	н	"		н		"	
Ethylbenzene	0.0434	0.0250	"	n		"	"	u	
Xylene (p/m)	0.0829	0.0250	11	"	11	11	"	"	
Xylene (o)	0.0340	0.0250	**	"	**	"	н	"	
Surrogate: a,a,a-Trifluorotoluene		99.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	32.4	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	162	10.0	13	n	u	"	"	"	
Total Hydrocarbon C6-C35	194	10.0	u	"	"	۳	н	"	
Surrogate: 1-Chlorooctane		104 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		122 %	70-1	30	"	"	"	"	
SE SSW (4K09002-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	ND	0.0250		11	"	"	"	"	
Ethylbenzene	ND	0.0250	н	"	н	"	"	и	
Xylene (p/m)	ND	0.0250	u	**	"	*	11	u	
Xylene (0)	ND	0.0250	н		*	"	n	"	
Surrogate: a,a,a-Trifluorotoluene		91.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	11	и	"	
Total Hydrocarbon C6-C35	ND	10.0	и	11	"		u	и	

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,

ļ	Plains All American EH & S	Project: Eunice Booster to Lea 6	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number: 2004-00198	Reported:
	Midland TX, 79706-4476	Project Manager: Camille Reynolds	11/12/04 16:18

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SE SSW (4K09002-08) Soil									
Surrogate: 1-Chlorooctane		107 %	70-1	130	EK40903	11 09 04	11 10 04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		124 %	70-1	130	"	"	"	"	
SE ESW (4K09002-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	ND	0.0250	11	"	"	п	н		
Ethylbenzene	ND	0.0250	*	"	n	"			
Xylene (p/m)	ND	0.0250	"	"			"	n	
Xylene (o)	ND	0.0250	11	н	*	**	"	u	
Surrogate: a,a,a-Trifluorotoluene		93.9 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 .7 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"		H	**	n	
Total Hydrocarbon C6-C35	ND	10.0	11	**		"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-1	30	"	"	"	"	
SE WSW (4K09002-10) Soil		_							
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	ND	0.0250			u	n	"	11	
Ethylbenzene	ND	0.0250	"	н	"	"	н	"	
Xylene (p/m)	ND	0.0250	••		н	н	"	"	
Xylene (o)	ND	0.0250	11		"	"	11		
Surrogate: a,a,a-Trifluorotoluene		95.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	и	"		н		
Total Hydrocarbon C6-C35	ND	10.0	"	"	n	n	н	n	
Surrogate: 1-Chlorooctane		105 %	70-1	30	"	"	"	17	
Surrogate: 1-Chlorooctadecane		122 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

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	Plains All American EH & S	Project: Eunice Booster to Lea 6	Fax: (432) 687-4914
Ì	1301 S. County Road 1150	Project Number: 2004-00198	Reported:
Í	[*] Midland TX, 79706-4476	Project Manager: Camille Reynolds	11/12/04 16:18

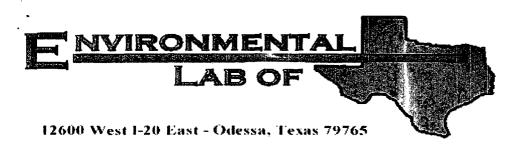
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SE BH (4K09002-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK41203	11/11/04	11/11/04	EPA 8021B	
Toluene	ND	0.0250	n	"		"	"	"	
Ethylbenzene	ND	0.0250	11		"	n	"		
Xylene (p/m)	ND	0.0250	"			11	"	n	
Xylene (o)	ND	0.0250	н	"	n	и		"	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-1	20	"	"	"	"	·····
Surrogate: 4-Bromofluorobenzene		95.1 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	15.4	10.0	mg/kg dry	1	EK40903	11/09/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	103	10.0	н	"		"	n		
Total Hydrocarbon C6-C35	118	10.0	11	U	"	"	"	11	
Surrogate: 1-Chlorooctane		106 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

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Analytical Report

Prepared for:

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

Project: Booster to Lea 6 in. Project Number: 2004-00198 Location: None Given

Lab Order Number: 4L02003

Report Date: 12/06/04

Plains All American EH & S	Project:	Booster to Lea 6 in.	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	2004-00198	Reported:
^e Midland TX, 79706-4476	Project Manager:	Camille Reynolds	12/06/04 08:44

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSW	4L02003-01	Soil	12/01/04 09:00	12/02/04 10:42
WSW	4L02003-02	Soil	12/01/04 14:00	12/02/04 10:42

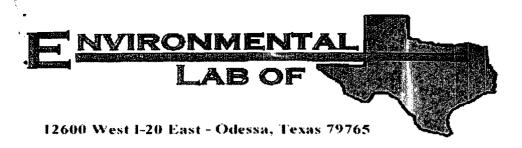
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SSW (4L02003-01) Soil								·····	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL40206	12/02/04	12/02/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.70]	10.0	"	"	0	• ••	н	"	J
Total Hydrocarbon C6-C35	ND	10.0	U.	"	u	11	"	"	
Surrogate: 1-Chlorooctane		77.0 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.7 %	70-1.	30	n	"	"	''	
WSW (4L02003-02) Soil									
Gasoline Range Organics C6-C12	13.2	10.0	mg/kg dry	1	EL40206	12/02/04	12/02/04	EPA 8015M	
Diesel Range Organics >C12-C35	192	10.0	н		"	"	н	"	
Total Hydrocarbon C6-C35	205	10.0	n	н		"	"	w	
Surrogate: 1-Chlorooctane		90.7 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.5 %	70-1.	30	"	"	"	"	

Environmental Lab of Texas

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Analytical Report

Prepared for:

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

Project: Eunice Booster to Lea - 6 in. Loop Line Project Number: 2004-00198 Location: None Given

Lab Order Number: 4L13010

Report Date: 12/16/04

Plains All American EH & S	Project:	Eunice Booster to Lea - 6 in. Loop Line	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	2004-00198	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	12/16/04 09:40

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SE Stockpile	4L13010-01	Soil	12/13/04 10:00	12/13/04 13:20
NW Stockpile	4L13010-02	Soil	12/13/04 10:00	12/13/04 13:20

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Project: Eunice Booster to Lea - 6 in. Loop Line Project Number: 2004-00198 Project Manager: Camille Reynolds

Reported: 12/16/04 09:40

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SE Stockpile (4L13010-01) Soil									
Benzene	0.743	0.100	mg/kg dry	100	EL41503	12/14/04	12/14/04	EPA 8021B	
Toluene	5.95	0.100	Ð	n	"	"	"		
Ethylbenzene	7.35	0.100	u	n	"	'n	'n	"	
Xylene (p/m)	25.4	0.100	"		н	D		**	
Xylene (0)	8.10	0.100	11	"		"	и	u.	
Surrogate: a,a,a-Trifluorotoluene	· · · · · · · · · · · · · · · · · · ·	180 %	80-1	20	"	11	"	"	S-04
Surrogate: 4-Bromofluorobenzene		136 %	80-1	20	"	"	"	"	S-04
Gasoline Range Organics C6-C12	2570	10.0	mg/kg dry	I	EL41311	12/13/04	12/14/04	EPA 8015M	
Diesel Range Organics >C12-C35	9790	10.0		"	н	"	"	н	
Total Hydrocarbon C6-C35	12400	10.0	н		"	11	н	n	
Surrogate: 1-Chlorooctane		118 %	70-1	30	59	"	**	f1	
Surrogate: 1-Chlorooctadecane		106 %	70-1	30	"	"	n	"	
NW Stockpile (4L13010-02) Soil									
Benzene	1.65	0.100	mg/kg dry	100	EL41503	12/14/04	12/14/04	EPA 8021B	
Toluene	12.5	0.100			"	11	"	"	
Ethylbenzene	10.7	0.100	11	"	"	н		"	
Xylene (p/m)	33.2	0.100	"	в	"		"	"	
Xylene (0)	10.0	0.100			н	0	**	n	
Surrogate: a,a,a-Trifluorotoluene		171 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		133 %	80-1	20	"	"	"	"	S-04
Gasoline Range Organics C6-C12	3310	50.0	mg/kg dry	5	EL41311	12/13/04	12/14/04	EPA 8015M	
Diesel Range Organics >C12-C35	12200	50.0	"		н				
Total Hydrocarbon C6-C35	15500	50.0	Ħ		и `	н	н	u	
Surrogate: 1-Chlorooctane		28.0 %	70-1	30	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		34.4 %	70-1	30	"	"	"	"	S-06

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.

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Environmental Labs of Texas

Chain of Custody Form

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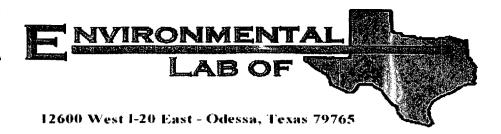
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12600 West I-20 East, Odessa, TX 79763

(915) 563-1800 FAX: (915) 563-1713

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Company Name	Environme	ental Plus,	Inc	2.								Bill	10								ŝŝ	115	eli	359F			
EPI Project Mana	ager lain Olnes	S									Г	ter en		<u>ר</u>							\square			T	T	Т	
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EPI Phone#/Fax#	505-394-34	481 / 505-3	94-	260	1						p	LA	IN	รี													
Client Company	Plains All A	merican									ALI PII	AM	HICA E. L	<u>Ř</u>													
Facility Name	Eunice Boos		6" L	oop	Line	;		4	Attn	: El	NV /	Acc	oun	ts Payab	le												
Project Referenc	e 2004-0019	8									PO	Box	x 46	48,	:												
EPI Sampler Nan	ne Roger Boo	one								ous				210-4648	·····												
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4L130010			(G)RAB	# CONT	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (Hq	TCLP	E.	РАН				
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Analytical Report

Prepared for:

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

Project: Booster Line Project Number: 2004-00198 Location: None Given

Lab Order Number: 5B15006

Report Date: 02/18/05

Plains All American EH & SProject:Booster LineFax: (432) 687-49141301 S. County Road 1150Project Number:2004-00198Reported:Midland TX, 79706-4476Project Manager:Camille Reynolds02/18/05 17:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SPBL021505BCC	5B15006-01	Soil	02/15/05 10:05	02/15/05 15:08

Project: Booster Line Project Number: 2004-00198 Project Manager: Camille Reynolds Fax: (432) 687-4914

Reported: 02/18/05 17:53

Organics by GC

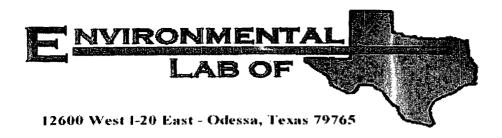
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SPBL021505BCC (5B15006-01) Soil				_					
Benzene	0.0821	0.0500	mg/kg dry	50	EB51805	02/16/05	02/17/05	EPA 8021B	
Toluene	0.599	0.0500	11	н	н	"	н	"	
Ethylbenzene	1.16	0.0500	H	"	"	u	"	"	
Xylene (p/m)	3.56	0.0500	н		"	"	н	n	
Xylene (o)	1.10	0.0500	"	"	и	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		146 %	80-12	20	n	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		117 %	80-12	20	"	"	n	"	
Gasoline Range Organics C6-C12	348	10.0	mg/kg dry	1	EB51604	02/15/05	02/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	1610	10.0	"	н	n	"	н	"	
Total Hydrocarbon C6-C35	1960	10.0	19	н	"		"	"	
Surrogate: 1-Chlorooctane		89.4 %	70-1	30	"	"	"	#	
Surrogate: 1-Chlorooctadecane		89.4 %	70-1.	30	"	"	n	"	

Environmental Lab of Texas

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Environmental Lab 12600 West 1-20 East Pt Odcssa Texas 79763 Fr	none: 915-563-1	1800														·													
Project Manager: Ia	in Olness			- •								р	roje	et Na	me:		Bo	oste	er L	ine									-
Company Name:P	ains	Camille Rey	nolds										Ŧ	roje	et #:														-
Company Address:													Pro	ject	Loc:														_
City/State/Zip:														I	'O#:		200	94-00)198				<u></u>		 .				-
Sampler Signature:						<u></u>														An	aly	e Fo	r]	
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and the second s		Date Sampled	Time Sampled	No. of Containers	ICE	ONH	HCI	NaOH	HSO	None	Other (Specify)	Water	Sludge	Other (Specify)	TDS/CL/SAR/EC	TPH 418.1	TPH TX (005Extended	TPH8046MGRODRO	Metals	Volatiles	Semivolatiles	× BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiability	Chlorides		RUSH TAT	Standard TAT
SPBL021505BCC		02/15/2005	10:05	1	X					4	1	1	12	¢	È		-	X		_		x	=	1	-	1	+-		口
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Analytical Report

Prepared for:

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

Project: Eunice Booster to Lea - 6 in. Loop Line Project Number: 2004-00198 Location: Lea

Lab Order Number: 5D29015

Report Date: 05/04/05

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

.

Project: Eunice Booster to Lea - 6 in. Loop Line Project Number: 2004-00198 Project Manager: Jimmy Bryant

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E Half of M Stockpile	5D29015-01	Soil	04/28/05 12:00	04/29/05 14:10
W Half of M Stockpile	5D29015-02	Soil	04/28/05 11:00	04/29/05 14:10
N BH 2 (6')	5D29015-03	Soil	04/28/05 08:30	04/29/05 14:10
S Half of N Stockpile	5D29015-04	Soil	04/28/05 10:00	04/29/05 14:10
E Half of S Stockpile	5D29015-05	Soil	04/28/05 14:30	04/29/05 14:10
W Half of S Stockpile	5D29015-06	Soil	04/28/05 13:30	04/29/05 14:10
N Half of N Ntockpile	5D29015-07	Soil	04/28/05 09:00	04/29/05 14:10

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476 Project: Eunice Booster to Lea - 6 in. Loop Line Project Number: 2004-00198 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 05/04/05 08:02

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E Half of M Stockpile (5D29015-01) So	sil								
Benzene	J [0.0155]	0.0250	mg/kg dry	25	EE50202	04/29/05	05/02/05	EPA 8021B	J
Toluene	0.0935	0.0250	"	u	"	"	*	н	
Ethylbenzene	0.121	0.0250	"	"	"	N	11	и	
Xylene (p/m)	0.203	0.0250	н	"	"	"	11	"	
Xylene (0)	0.110	0.0250	n	"	n		"	'n	
Surrogate: a,a,a-Trifluorotoluene		90.3 %	80-1	20	"	n	"	n	
Surrogate: 4-Bromofluorobenzene		109 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	206	10.0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	1160	10.0	**	"	u	"	**	"	
Total Hydrocarbon C6-C35	1370	10.0	"	11	"	"	н	и	
Surrogate: 1-Chlorooctane		80.8 %	70-1	30	"	"	"	"	······
Surrogate: 1-Chlorooctadecane		84.0 %	70-1	30	"	"	"	n	
W Half of M Stockpile (5D29015-02) S	oil								
Benzene	ND	0.0250	mg/kg dry	25	EE50202	04/29/05	05/02/05	EPA 8021B	
Toluene	0.0416	0.0250	u	n	n	n		**	
Ethylbenzene	0.0682	0.0250	**		"	11		"	
Xylene (p/m)	0.116	0.0250	н	*	"	"	"		
Xylene (0)	0.0560	0.0250	"	"	"		"	u	
Surrogate: a,a,a-Trifluorotoluene		94.9 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	132	10.0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	881	10.0	"	"	w		"	*1	
Total Hydrocarbon C6-C35	1010	10.0	"	**	"		и	и	

N BH 2 (6') (5D29015-03) Soil

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Benzene	ND	0.0250	mg/kg dry	25	EE50203	05/02/05	05/02/05	EPA 8021B
Toluene	0.102	0.0250		n	n	"	"	"
Ethylbenzene	0.150	0.0250			"	"	"	H.
Xylene (p/m)	0.247	0.0250	N	"	н	"	"	11
Xylene (0)	0.146	0.0250		н	"	"	"	ŧ
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120)	"	"	"	"
Surrogate: 4-Bromofluorobenzene		111 %	80-120)	"	"	"	"
Gasoline Range Organics C6-C12	200	10.0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M
Diesel Range Organics >C12-C35	1010	10.0	11	"	**	19	"	
Total Hydrocarbon C6-C35	1210	10.0	н				"	11

70-130

70-130

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72.8 %

74.0 %

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Page 2 of 12

Reported: 05/04/05 08:02

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N BH 2 (6') (5D29015-03) Soil									
Surrogate: 1-Chlorooctane	······	76.2 %	70-1	30	ED52904	04/29/05	04/29/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		76.0 %	70-1	30	"	"	n	n	
S Half of N Stockpile (5D29015-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50203	05/02/05	05/02/05	EPA 8021B	
Toluene	0.0540	0.0250	"	11	11	"	"	н	
Ethylbenzene	0.0965	0.0250	н			и	и	"	
Xylene (p/m)	0.133	0.0250	"	"	"	"	u.		
Xylene (o)	0.0970	0.0250	"		"	**	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-1	20	"	"	"	n	
Gasoline Range Organics C6-C12	121	10.0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	726	10.0	"	"	"	**	н	н	
Total Hydrocarbon C6-C35	847	10.0	*	н	н	11	11	н	
Surrogate: 1-Chlorooctane		77.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		78.4 %	70-1	30	"	"	"	"	
E Half of S Stockpile (5D29015-05) Soil									
Benzene	J [0.0113]	0.0250	mg/kg dry	25	EE50203	05/02/05	05/02/05	EPA 8021B	J
Toluene	0.132	0.0250	"	e e	н		"	"	
Ethylbenzene	0.160	0.0250	11	"	"	u	н		
Xylene (p/m)	0.707	0.0250	н	11	"	"	"	н	
Xylene (o)	0.206	0.0250	v	"	11	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"		

80-120

70-130

70-130

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11

mg/kg dry

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111%

10.0

10.0

10.0

79.6 %

81.6%

203

1030

1230

Environmental Lab of Texas

Surrogate: 4-Bromofluorobenzene

Gasoline Range Organics C6-C12

Diesel Range Organics >C12-C35

Total Hydrocarbon C6-C35

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

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Reported: 05/04/05 08:02

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W Half of S Stockpile (5D29015-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50203	05/02/05	05/02/05	EPA 8021B	
Toluene	0.111	0.0250	"		n	и	"	*1	
Ethylbenzene	0.160	0.0250	"	**	"	n	н	"	
Xylene (p/m)	0.655	0.0250	н	н		"	11	11	
Xylene (0)	0.178	0.0250	"		"	н	"	11	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	223	10.0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	1120	10.0	"		**	"		Ħ	
Total Hydrocarbon C6-C35	1340	10.0	0	"	н		"	"	
Surrogate: 1-Chlorooctane		83.4 %	70-1	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		84.2 %	70-1	30	"	"	"	"	
N Half of N Ntockpile (5D29015-07) Soil									
Benzene	J [0.0133]	0.0250	mg/kg dry	25	EE50203	05/02/05	05/02/05	EPA 8021B	l
Toluene	0.129	0.0250	"	"	н	*	n		
Ethylbenzene	0.154	0.0250	n	•1		۳	**	"	
Xylene (p/m)	0.624	0.0250	н		u	"	17	"	
Xylene (0)	0.143	0.0250		"	"	"		"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	80-1	20	"	"	"	te	
Gasoline Range Organics C6-C12	207	10.0	mg/kg dry	1	ED52909	04/29/05	04/29/05	EPA 8015M	

Environmental Lab of Texas

Diesel Range Organics >C12-C35

Total Hydrocarbon C6-C35

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

887

1090

10.0

10.0

79.4 %

78.8 %

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70-130

70-130

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ATTACHMENT II COPY OF INITIAL C-141

District I 1625 N. French District II 1301 W. Grand)	Energy Mi	inerals		I Resources			vised O	Form C-141 ctober 10, 2003		
District III 1000 Rio Brazo District IV 1220 S. St. Fran			5	1220) Sout	ervation Div th St. France	is Dr.		Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form				
		<u></u>				re, NM 875	orrective A	ction			Belling Handelski konstanter		
						OPERA			al Report	П	Final Report		
Name of Co	ompany Pl	ains Marketi	ng, LP	·····			nille Reynolds			<u> </u>	T mui icepoir		
Address 58	05 East Hy	vy. 80, Midl	and, TX '	79706			No. 505-441-09	and the second					
Facility Nat	ne Eunice	Booster To	Lea 6" Lo	oop Line 2004	gg.	Facility Typ	e 6"Steel Pipeli	ine					
Surface Ow	ner Millar	d Deck Estat	te	Mineral C				Lease 1	No.				
				LOCA	ATIO	N OF REI	EASE						
Unit Letter L	Section 4	Township 21S	Range 36E	Feet from the		h/South Line	Feet from the	County Lea					
L	I	Latitud	e_ <u>32° 30</u>	' 44.6"	.t	_ Longitude	103° 16' 37.5	»»					
				NAT	URF	OF RELI	EASE						
Type of Rele						Volume of	Release 30 barre		Recovered 3				
Source of Re	lease 6" Ste	el Pipeline				Date and H	lour of Occurrenc 09-30	e Date and 9-16-04 (Hour of Dis	covery			
Was Immedia	ate Notice (Yes 🗌	No 🗌 Not Re	equired	If YES, To	Whom?		<u>, 11.50</u>				
By Whom? C	Camille Rey	nolds	·			Date and H	lour 9-16-04 @ 1	8:00	·····				
Was a Water	course Read			N-		If YES, Vo	lume Impacting t	he Watercourse.					
If a Watercou	Irse was Im	pacted, Descr	Yes 🛛										
							1. E. S. S.						
The line is a	6 inch steel	transmission	pipeline th	at produces appro	oximate	ely 1,100 to 1,2	200 barrels of cru	line clamp was in de oil per day. The proximately 16 pp	e pressure on				
Describe Are 7,740 ft ² .	a Affected	and Cleanup A	Action Tak	en.* The impacte	ed soil	was excavated	and stockpiled or	plastic. Aerial ex	tent of surface	ce impa	act was		
		1. S.	527280										
regulations at public health should their o or the environ	ll operators or the enviro operations h nment. In a	are/required to ronnient. The ave failed to a	o report an acceptant dequately)CD_accept	d/or file certain r cof a C-141 repo Investigate and r	release ort by the remedia	notifications and he NMOCD meter meters and the notation of the second s	nd perform correct arked as "Final R on that pose a thr	nderstand that pur- trive actions for rel eport" does not rel eat to ground wate responsibility for c	eases which ieve the oper r, surface wa	may en ator of ter, hui	idanger liability man health		
Signature:	lar	nille		Epholds	2			SERVATION	DIVISIO	N			
Printed Name	e: Camille F	Reynolds	L	.		Approved by	District Supervise	or:					
Title: Remed	iation Coor	dinator				Approval Dat	e:	Expiration	Date:				
E-mail Addre	ess: cjreyno	lds@paalp.com	<u>m</u>			Conditions of	Approval:		Attached				
Date: 9-23-04		ta If Nagara		Phone: 505-441-	0965				<u> </u>				

* Attach Additional Sheets If Necessarv