

## SITE CLOSURE REQUEST

**RED BYRD #3**  
**UNIT G, SECTION 12, TOWNSHIP 20 SOUTH, RANGE 36 EAST**  
**SOUTHWEST OF MONUMENT**  
**LEA COUNTY, NEW MEXICO**  
RP # 1155  
SRS #: 2000-10478

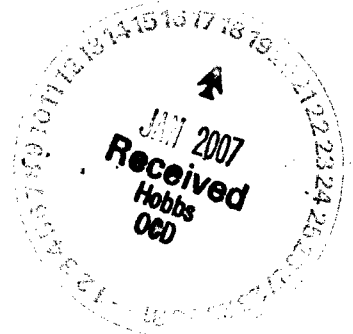
Prepared for:

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



Prepared by:

NOVA Safety and Environmental  
2057 Commerce Drive  
Midland, Texas 79703



December 2006

*facility - PAC 0712440801*  
*incident - PAC 0712440904*  
*application - PAC 0712441042*

Curt D. Stanley  
Project Manager

Todd K. Choban  
Vice President, Technical Services

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## **1.0 INTRODUCTION AND BACKGROUND**

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) has prepared this Site Closure Request for the crude oil release site known as Red Byrd #3 (SRS # 2000-10478). According to the landowner, during the winter of 1983-1984, an unknown quantity of crude oil was released from a pipeline owned and operated by Texas-New Mexico Pipeline Company (TNM). The release site is located southwest of Monument, New Mexico in Unit G, Section 12, Township 20 South and Range 26 East, on property owned by Mr. Red Byrd. A site location map and site map are provided as Figures 1 and 2, respectively. The release was reported by the landowner and emergency response activities were conducted by employees of TNM. An unknown quantity of crude oil was recovered during emergency response activities. The site is located adjacent to a tank battery facility owned and operated by Apache Corporation (formerly Amerada Hess, Inc.). Visibly hydrocarbon impacted soil and asphaltine was observed at the Apache Corporation tank battery and in the surrounding area. Ms. Camille Reynolds (Plains) and Mr. Todd Choban (NOVA) spoke with Mr. Red Byrd with regard to the surface stain attributable to the former TNM crude oil release. The area Mr. Byrd described is approximately 100 feet wide by 120 feet long and is illustrated on the site map included as Figure 2. The Red Byrd #3 release site is now the responsibility of Plains, which acquired the assets of Link Energy in April 2004. The Release Notification and Corrective Action (Form C-141) is included as Appendix D.

## **2.0 SUMMARY OF FIELD ACTIVITIES**

On October 17, 2005, NOVA on behalf of Plains, mobilized a backhoe to the Red Byrd #3 crude oil release site. A total of nine (9) test trenches (T-1 through T-9) were cut to depths ranging from one (1) foot to three (3) feet below ground surface (bgs). A site map illustrates the location of the test trenches and is included as Figure 2.

The trenches were field screened by visual and olfactory means. Soil samples were collected from the ground surface at three (3) locations (S1, S2 and S3) and the sidewalls of four (4) test trenches (T1-SW-1', T6-SW-1', T7-SW-1', T8-SW-1').

Samples were collected and placed in glassware provided by TraceAnalysis of Lubbock, Texas. The samples were then placed on ice in coolers for transport to the laboratory. Strict chain-of-custody documentation was maintained at all times. Samples were analyzed using EPA Method SW-846 8015m for gasoline and diesel range total petroleum hydrocarbons (TPH). The sample exhibiting the highest concentration of TPH (S-3) was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) utilizing EPA Method SW-846 8021b.

The visual, olfactory and analytical results of test trenching at the site indicated limited surface hydrocarbon impact. TPH analytical results for the surface samples ranged from <10 mg/Kg to 173 mg/Kg. TPH analytical results for sidewall samples obtained from test trenches were <10 mg/Kg with the exception of sample T7-SW-1', which exhibited a total TPH concentration of 99 mg/Kg. All TPH concentrations were in the Diesel Organic Range (C<sub>12</sub>-C<sub>35</sub>). The soil sample collected at S-3 exhibited the highest total TPH concentration of 173 mg/Kg and was also analyzed for BTEX utilizing EPA Method SW-846 8021b. Analytical results indicate BTEX

constituent concentrations were below the laboratory reporting limit of 0.0250 mg/Kg. Based on the analytical results from soil sample S-3, no additional soil samples were analyzed for BTEX constituents. An analytical table is included as Table 1. Analytical reports are included in Appendix A. The analytical results confirm field visual and olfactory observations, indicating hydrocarbon impact is limited to the upper eight (8) inches of soil at the site. Descriptions of the nine (9) test trenches are included in Table 2.

In November 2005, Plains submitted a Site Investigation Work Plan and Proposed Site Closure Strategy, to the NMOCD. In the Plan, Plains proposed to clear the native vegetation from the site and mechanically till the hydrocarbon impacted area to a depth of one (1) foot bgs on a quarterly basis. The Plan proposed the collection and analysis of an appropriate number soil samples following each tilling event. The Work Plan was approved by Mr. Larry Johnson of the NMOCD (Hobbs district office) and work commenced in the Spring of 2006.

On February 2-3, 2006, the site was cleared of native vegetation and the hydrocarbon impacted soil was mechanically tilled to a depth of approximately one (1) foot.

On March 16, 2006, the hydrocarbon impacted soil was mechanically tilled as described above and sampling of the impacted area took place on April 12, 2006. The analytical results indicated total TPH concentrations at the west side sampling point were 1,010 mg/Kg and 779 mg/Kg at the east side sampling point. The analytical results indicated the TPH Gasoline Range Organics (TPH-GRO) was below the laboratory method reporting limit of 20 mg/Kg.

On May 17, 2006, the hydrocarbon impacted area was mechanically tilled and sampling of the impacted soil took place on May 23, 2006. The analytical results indicated total TPH concentrations at the west side sampling point were 1,050 mg/Kg and 1,480 mg/Kg at the east side sampling point. The analytical results indicated the TPH-GRO was below the laboratory method reporting limit of 20 mg/Kg.

Preceding the second tilling event, Plains and NOVA personnel discussed the effectiveness of the tilling activities with regard to soil remediation at the site. In August 2006, Plains concluded the current plan of mechanically tilling the hydrocarbon impacted soil had not been effective in remediating the levels of Diesel Range Organics (TPH-DRO) in the soil, to levels acceptable to the NMOCD. On August 9, 2006, Plains requested the NMOCD allow Plains to abandon the current Work Plan, and utilize a total excavation strategy at the Red Byrd #3 site.

With the approval of the NMOCD, total excavation of the hydrocarbon impacted area was performed on October 2 and 3, 2006. Approximately 216 cubic yards (cy) of hydrocarbon impacted soil was excavated and transported to the Plains Lea Station Landfarm located in Lea County, New Mexico. The Certificate of Non-Exempt Waste Status (Form C-138) is included as Appendix C. On October 3, 2006, six confirmation soil samples were collected from the sidewalls and the floor of the open excavation. The analytical results indicated the TPH concentrations in all six (6) samples were below the NMOCD regulatory clean up level of 100 mg/Kg TPH. (Table 1). Based on the analytical results of confirmation soil samples, approval was granted by the NMOCD to backfill the excavation and restore the site to topographic grade, on October 10, 2006.

On October 23, 2006, the excavation was backfilled with 270 cy of non-impacted soil, purchased from the landowner and the site was restored to topographic grade. Photographs are included as Appendix B. Groundcover acceptable to the landowner will be established in the Spring of 2007.

### **3.0 CLOSURE REQUEST**

Based on the analytical results of confirmation soil samples obtained from the floor and sidewalls of the excavation, NOVA recommends that Plains provide the NMOCD a copy of this Site Closure Request and request the NMOCD grant closure to the Red Byrd #3 release site.

### **4.0 QA/QC PROCEDURES**

#### **4.1 Soil Sampling**

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

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

Soil samples were delivered to Environmental Laboratory of Texas, Odessa, Texas for BTEX and TPH analyses using the method described below.

- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- BTEX concentrations in accordance with EPA Method SW-846 8021b

#### **4.2 Decontamination of Equipment**

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

#### **4.3 Laboratory Protocol**

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form.

## **5.0 LIMITATIONS**

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

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

This report has been prepared for the benefit of Plains Marketing, L.P. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Plains Marketing L.P.

## 6.0 DISTRIBUTION

- Copy 1: Larry Johnson / Patricia Caperton  
New Mexico Oil Conservation Division (District 1)  
1625 French Drive  
Hobbs, NM 88240
- Copy 2: Camille Reynolds  
Plains Pipeline, L.P.  
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## Figures



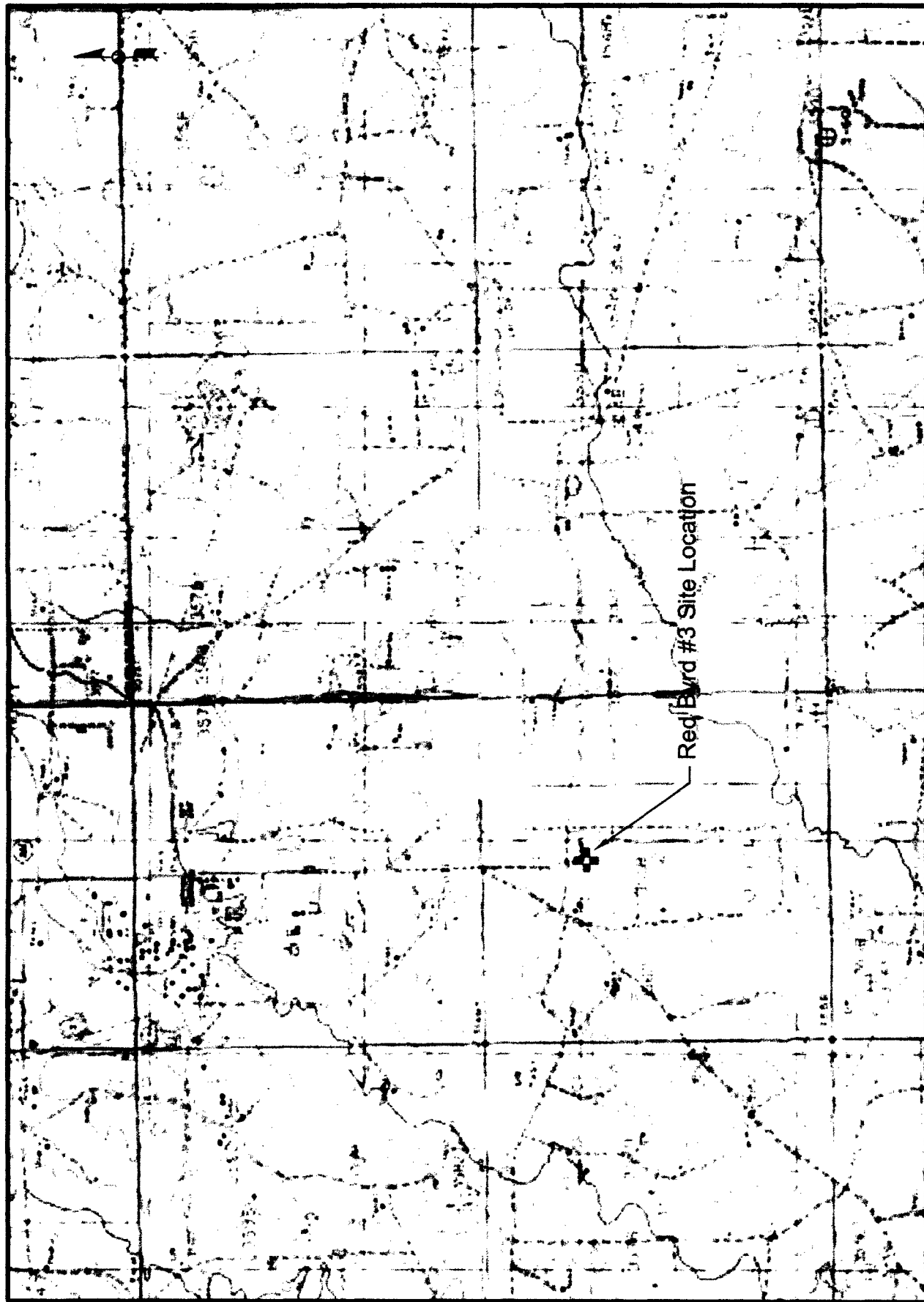
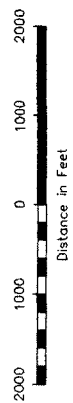


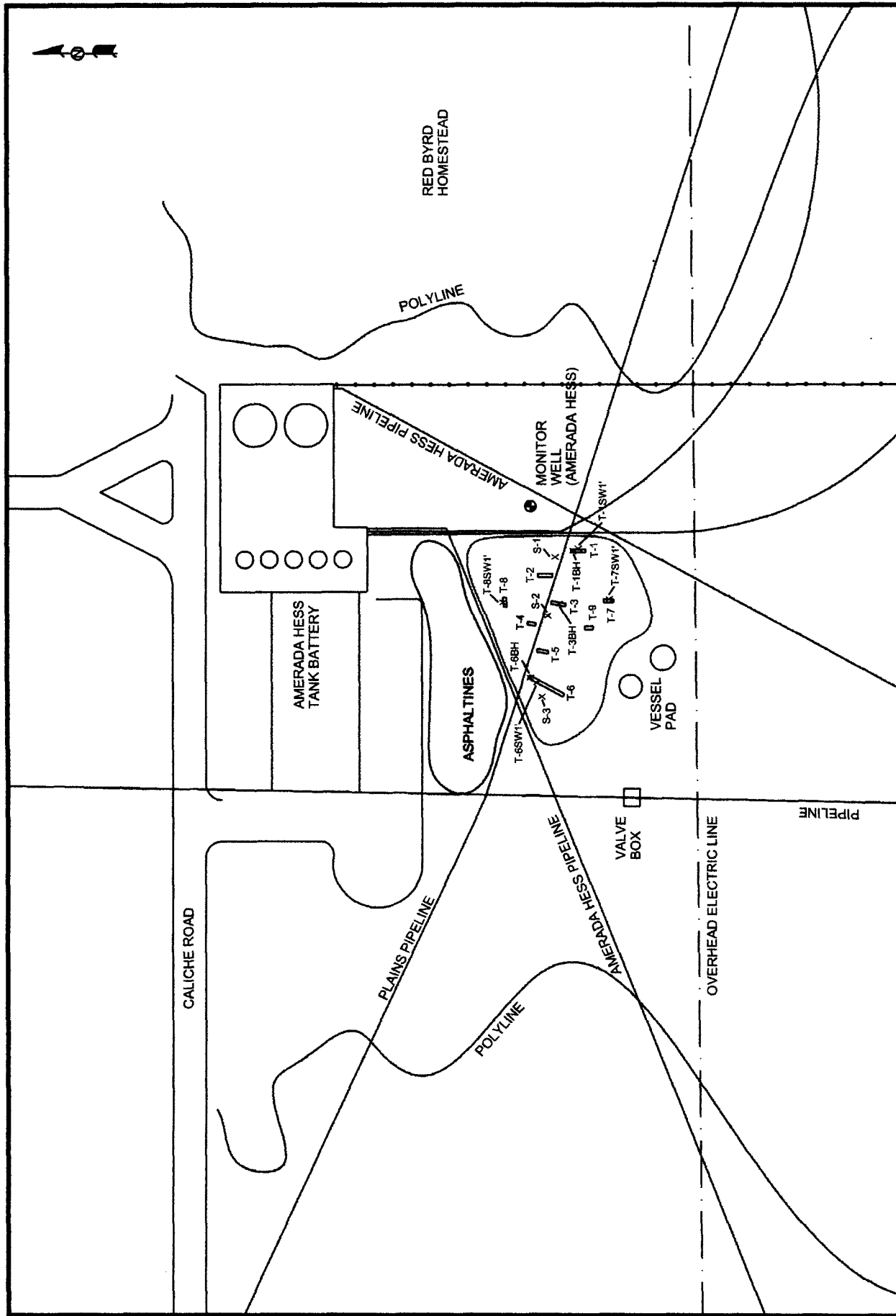
Figure 1  
 Site Location Map  
 Plains Marketing, L.P.  
 Red Byrd #3  
 Lea County, NM  
 Plains EMS #2000-10478



NOVA Safety and Environmental

**NOVA**  
 safety and environmental

Unit G, Sec 12, T20S, R9E	32° 32' 27.3"N 103° 18' 27.3"W
Scale: 1" = 200'	Prep By: CDS
Checked By: TWC	November 21, 2005



**LEGEND:**

- Pipeline
- Monitor Well Location
- Tank Location
- Sample Location

Hydrocarbon Impacted Area to be Used

**Figure 2**  
Site Map and  
Sample Locations  
Plains Marketing, L.P.  
Red Byrd #3  
Lea County, NM  
EMS # 2000-10478

**NOVA**  
NOVA Safety and Environmental

Scale: 1" = 80'  
Prep By: CDS  
Checked By: CDS  
October 18, 2005

## Tables

Table 1

CONCENTRATIONS OF BTEX AND TPH  
IN SOIL

PLAINS MARKETING, L.P.

Red Byrd #3

Lea County, New Mexico

Plains SRS# 2000-10478

All concentrations are in mg/kg

SAMPLE DATE	SAMPLE LOCATION	METHOD EPA 8015M					SW 846-8021B, 5030					
		C6-C12	C12-C28	C12-C35	C28-C35	Total Hydrocarbon C6-C35	BENZENE	TOLUENE	ETHYL- BENZENE	M.P.- XYLENES	O- XYLENES	TOTAL BTEX
10/17/2005	T6-SW-1'	<10		<10		<10						
	T1-SW-1'	<10		<10		<10						
	T6-SW-1'	<10		<10		<10						
	T7-SW-1'	<10		99		99						
	S1	<10		<10		<10						
	S2	<10		122		122						
	S3	<10		173		173	<0.025	<0.025	<0.025	<0.025	<0.025	>0.025
4/12/2006	West #1	<10	728		286	1010						
	East #1	<10	552		227	779						
5/23/2006	West Side #1	<20	635		414	1050						
	East Side #1	<20	843		638	1480						
10/3/2006	West Floor@ 1.5'	<10	31.8		17.8	49.6						
	East Floor@ 1.5'	<10	<10		<10	<10						
	South Sidewall	<10	<10		<10	<10						
	West Sidewall	<10	<10		<10	<10						
	North Sidewall	<10	<10		<10	<10						
	East Sidewall	<10	32.3		16.6	48.9						

Table 2

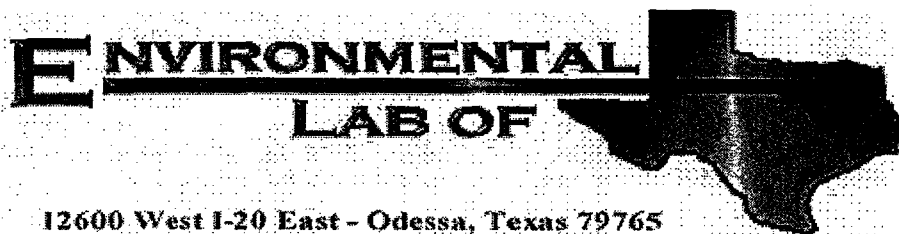
**TEST TRENCH DESCRIPTIONS**  
**PLAINS MARKETING, L.P.**  
**Red Byrd #3**  
**Lea County, New Mexico**  
**Plains EMS# 2000-10478**

TEST TRENCH	DEPTH	HYDROCARBON ODOR	HYDROCARBON STAIN	DESCRIPTION
T1	0 - 8" 8" - 24"	Slight None	Moderate None	Sand White, sandy caliche
T2	0 - 8" 8" - 36"	Slight None	Moderate None	Sand White, sandy caliche
T3	0 - 8" 8" - 24"	Slight None	Moderate None	Sand White, sandy caliche
T4	0 - 8" 8" - 24"	Slight None	Moderate None	Sand White, sandy caliche
T5	0 - 8" 8" - 18"	Slight None	Moderate None	Sand White, sandy caliche
T6	0 - 8" 8" - 30"	Slight None	Moderate None	Sand White, sandy caliche
T7	0 - 8" 8" - 18"	Slight None	Moderate None	Sand White, sandy caliche
T8	0 - 8" 8" - 18"	Slight None	Moderate None	Sand White, sandy caliche
T9	0 - 8" 8" - 12"	Slight None	Moderate None	Sand White, sandy caliche

## Appendices

# Appendix A

## Laboratory Reports



## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Red Byrd #3

Project Number: 2000-10478

Location: SW of Monument, NM

Lab Order Number: 5J20001

Report Date: 10/25/05



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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
10/25/05 16:40

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T8-SW-1'	5J20001-04	Soil	10/17/05 14:30	10/19/05 16:45
T1-SW-1'	5J20001-05	Soil	10/17/05 14:40	10/19/05 16:45
T6-SW-1'	5J20001-06	Soil	10/17/05 14:50	10/19/05 16:45
T7-SW-1'	5J20001-07	Soil	10/17/05 15:00	10/19/05 16:45
S1	5J20001-08	Soil	10/17/05 15:10	10/19/05 16:45
S2	5J20001-09	Soil	10/17/05 15:20	10/19/05 16:45
S3	5J20001-10	Soil	10/17/05 15:30	10/19/05 16:45

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

Project: Red Byrd #3  
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Reported:  
10/25/05 16:40

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>T8-SW-1' (5J20001-04) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.6 %	70-130		"	"	"	"	
<b>T1-SW-1' (5J20001-05) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.4 %	70-130		"	"	"	"	
<b>T6-SW-1' (5J20001-06) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		70.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		81.6 %	70-130		"	"	"	"	
<b>T7-SW-1' (5J20001-07) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	99.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	99.0	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.2 %	70-130		"	"	"	"	
<b>S1 (5J20001-08) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.2 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

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1301 S. County Road 1150  
Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
10/25/05 16:40

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S2 (5J20001-09) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	112	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	112	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.2 %	70-130		"	"	"	"	
<b>S3 (5J20001-10) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ52109	10/21/05	10/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52003	10/20/05	10/20/05	EPA 8015M	
Diesel Range Organics >C12-C35	173	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	173	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	

Environmental Lab of Texas

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1301 S. County Road 1150  
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Project: Red Byrd #3  
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Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
10/25/05 16:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>T8-SW-1' (5J20001-04) Soil</b>									
% Moisture	9.5	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>T1-SW-1' (5J20001-05) Soil</b>									
% Moisture	3.9	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>T6-SW-1' (5J20001-06) Soil</b>									
% Moisture	10.8	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>T7-SW-1' (5J20001-07) Soil</b>									
% Moisture	5.1	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>S1 (5J20001-08) Soil</b>									
% Moisture	11.9	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>S2 (5J20001-09) Soil</b>									
% Moisture	13.5	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	
<b>S3 (5J20001-10) Soil</b>									
% Moisture	9.0	0.1	%	1	EJ52009	10/20/05	10/20/05	% calculation	

Environmental Lab of Texas

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
10/25/05 16:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EJ52003 - Solvent Extraction (GC)</b>									
<b>Blank (EJ52003-BLK1)</b>					Prepared & Analyzed: 10/20/05				
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	"						
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.2	70-130		
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130		
<b>LCS (EJ52003-BS1)</b>					Prepared & Analyzed: 10/20/05				
Gasoline Range Organics C6-C12	417	10.0	mg/kg wet	500		83.4	75-125		
Diesel Range Organics >C12-C35	422	10.0	"	500		84.4	75-125		
Total Hydrocarbon C6-C35	839	10.0	"	1000		83.9	75-125		
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	70-130		
Surrogate: 1-Chlorooctadecane	55.9		"	50.0		112	70-130		
<b>Calibration Check (EJ52003-CCV1)</b>					Prepared: 10/20/05 Analyzed: 10/21/05				
Gasoline Range Organics C6-C12	428		mg/kg	500		85.6	80-120		
Diesel Range Organics >C12-C35	460		"	500		92.0	80-120		
Total Hydrocarbon C6-C35	888		"	1000		88.8	80-120		
Surrogate: 1-Chlorooctane	51.7		"	50.0		103	0-200		
Surrogate: 1-Chlorooctadecane	55.4		"	50.0		111	0-200		
<b>Matrix Spike (EJ52003-MS1)</b>					Source: 5J20001-04	Prepared & Analyzed: 10/20/05			
Gasoline Range Organics C6-C12	450	10.0	mg/kg dry	552	ND	81.5	75-125		
Diesel Range Organics >C12-C35	435	10.0	"	552	ND	78.8	75-125		
Total Hydrocarbon C6-C35	885	10.0	"	1100	ND	80.5	75-125		
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.4	70-130		
Surrogate: 1-Chlorooctadecane	49.1		"	50.0		98.2	70-130		
<b>Matrix Spike Dup (EJ52003-MSD1)</b>					Source: 5J20001-04	Prepared & Analyzed: 10/20/05			
Gasoline Range Organics C6-C12	442	10.0	mg/kg dry	552	ND	80.1	75-125	1.79	20
Diesel Range Organics >C12-C35	435	10.0	"	552	ND	78.8	75-125	0.00	20
Total Hydrocarbon C6-C35	877	10.0	"	1100	ND	79.7	75-125	0.908	20
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	70-130		
Surrogate: 1-Chlorooctadecane	48.0		"	50.0		96.0	70-130		

Environmental Lab of Texas

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Page 5 of 9

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
10/25/05 16:40

**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
<b>Batch EJ52109 - EPA 5030C (GC)</b>										
<b>Blank (EJ52109-BLK1)</b>										
Prepared & Analyzed: 10/21/05										
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/kg	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		"	40.0		89.8	80-120			
<b>LCS (EJ52109-BS1)</b>										
Prepared: 10/21/05 Analyzed: 10/24/05										
Benzene	0.0546	0.00100	mg/kg wet	0.0500		109	80-120			
Toluene	0.0536	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0594	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.116	0.00100	"	0.100		116	80-120			
Xylene (o)	0.0576	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/kg	40.0		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			
<b>Calibration Check (EJ52109-CCV1)</b>										
Prepared: 10/21/05 Analyzed: 10/25/05										
Benzene	53.0		ug/kg	50.0		106	80-120			
Toluene	52.2		"	50.0		104	80-120			
Ethylbenzene	57.1		"	50.0		114	80-120			
Xylene (p/m)	108		"	100		108	80-120			
Xylene (o)	57.9		"	50.0		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		"	40.0		94.5	0-200			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	0-200			
<b>Matrix Spike (EJ52109-MS1)</b>										
Source: 5J23004-13 Prepared: 10/21/05 Analyzed: 10/25/05										
Benzene	1.43	0.0250	mg/kg dry	1.33	0.00952	107	80-120			
Toluene	1.46	0.0250	"	1.33	0.0822	104	80-120			
Ethylbenzene	1.67	0.0250	"	1.33	0.0801	120	80-120			
Xylene (p/m)	3.39	0.0250	"	2.66	0.209	120	80-120			
Xylene (o)	1.57	0.0250	"	1.33	0.0990	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/kg	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

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1301 S. County Road 1150  
Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
10/25/05 16:40

**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 EJ52109 - EPA 5030C (GC)**

**Matrix Spike Dup (EJ52109-MSD1)**

Source: 5J23004-13

Prepared: 10/21/05 Analyzed: 10/25/05

Benzene	1.36	0.0250	mg/kg dry	1.33	0.00952	102	80-120	4.78	20	
Toluene	1.40	0.0250	"	1.33	0.0822	99.1	80-120	4.83	20	
Ethylbenzene	1.66	0.0250	"	1.33	0.0801	119	80-120	0.837	20	
Xylene (p/m)	3.40	0.0250	"	2.66	0.209	120	80-120	0.00	20	
Xylene (o)	1.64	0.0250	"	1.33	0.0990	116	80-120	4.41	20	
Surrogate: a,a,a-Trifluorotoluene	40.7		ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	40.2		"	40.0		100	80-120			

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1301 S. County Road 1150  
Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
10/25/05 16:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ52009 - General Preparation (Prep)**

**Blank (EJ52009-BLK1)**

Prepared & Analyzed: 10/20/05

% Solids 100 %

**Duplicate (EJ52009-DUP1)**

Source: 5J20001-04

Prepared & Analyzed: 10/20/05

% Solids 90.8 % 90.5 0.331 20

**Duplicate (EJ52009-DUP2)**

Source: 5J20033-01

Prepared: 10/20/05 Analyzed: 10/21/05

% Solids 95.1 % 94.9 0.211 20



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Midland TX, 79706-4476

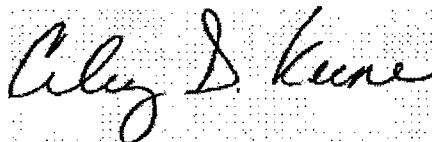
Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
10/25/05 16:40

### Notes and Definitions

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

Report Approved By:



Date: 10/25/2005

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

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

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12600 West I-20 East  
Odessa, Texas 79765

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

# Environmental Lab of Texas

**Project Manager:**

CURT STAVLEY

**Company Name**

## NOVA SAFETY & ENVIRONMENTAL

**Company Address:**

2057 Commerce

City/State/Zip:

Alondra TX 79703

**Telephone No:**

32-520-7720

Fax No.:

Fax No: 437-520-7701

**Sampler Signature:**

## PLANS MARKETING

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

**Project Name:**

Red Byron #3

Project #:

2000-10478

Project Loc:

SW of Monument NM

并口

Dr. 0/000

R2 BTX 03  
HIGHEST TP#

## Signature Sample:

## PLANS MARKETING

[illegible]

**Special Instructions:**

五洲大藥房

Business Plans Marketing: Houston TX  
 Carmelle

Relinquished by:

Received by

**Direct**

2000

Requisite:

Received by FLOT:

Date / /

7. 2. 1.

40.

407.101

# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Plains

Date/Time: 10/19/05 4:45

Order #: SJ20001

Initials: CK

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<del>Not present</del>
Custody Seals intact on sample bottles?	Yes	No	<del>Not present</del>
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	Yes	No	ID on lid
Container labels legible and intact?	Yes	No	n/a
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

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### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
Regarding: \_\_\_\_\_

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Corrective Action Taken:

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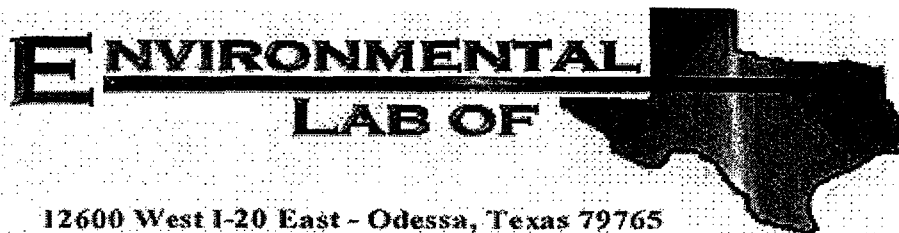
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## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Red Byrd #3

Project Number: 2000-10478

Location: SW of Monument, NM

Lab Order Number: 6D13009

Report Date: 04/14/06

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West #1	6D13009-01	Soil	04/12/06 13:50	04/13/06 10:40
East #1	6D13009-02	Soil	04/12/06 14:00	04/13/06 10:40

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1301 S. County Road 1150  
Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West #1 (6D13009-01) Soil</b>									
Carbon Ranges C6-C12	ND	20.0	mg/kg dry	2	ED61312	04/13/06	04/13/06	EPA 8015M	
Carbon Ranges C12-C28	728	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	286	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1010	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		37.4 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		39.6 %	70-130		"	"	"	"	S-06
<b>East #1 (6D13009-02) Soil</b>									
Carbon Ranges C6-C12	ND	20.0	mg/kg dry	2	ED61312	04/13/06	04/13/06	EPA 8015M	
Carbon Ranges C12-C28	552	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	227	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	779	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		44.6 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		45.2 %	70-130		"	"	"	"	S-06

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West #1 (6D13009-01) Soil</b>									
% Moisture	0.8	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
<b>East #1 (6D13009-02) Soil</b>									
% Moisture	1.3	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	

Environmental Lab of Texas

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Page 3 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
04/14/06 15:52

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ED61312 - Solvent Extraction (GC)**

**Blank (ED61312-BLK1)**

Prepared & Analyzed: 04/13/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	40.1		mg/kg	50.0		80.2	70-130			
Surrogate: 1-Chlorooctadecane	40.6		"	50.0		81.2	70-130			

**LCS (ED61312-BS1)**

Prepared & Analyzed: 04/13/06

Carbon Ranges C6-C12	464	10.0	mg/kg wet	500		92.8	75-125			
Carbon Ranges C12-C28	465	10.0	"	500		93.0	75-125			
Total Hydrocarbon C6-C35	929	10.0	"	1000		92.9	75-125			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			

**Calibration Check (ED61312-CCV1)**

Prepared: 04/13/06 Analyzed: 04/14/06

Carbon Ranges C6-C12	286		mg/kg	250		114	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon C6-C35	583		"	500		117	80-120			
Surrogate: 1-Chlorooctane	49.2		"	50.0		98.4	70-130			
Surrogate: 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			

**Matrix Spike (ED61312-MS1)**

Source: 6D13008-11

Prepared & Analyzed: 04/13/06

Carbon Ranges C6-C12	523	10.0	mg/kg dry	560	ND	93.4	75-125			
Carbon Ranges C12-C28	529	10.0	"	560	ND	94.5	75-125			
Total Hydrocarbon C6-C35	1050	10.0	"	1120	ND	93.8	75-125			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	41.5		"	50.0		83.0	70-130			



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Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

**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 ED61312 - Solvent Extraction (GC)**

**Matrix Spike Dup (ED61312-MSD1)**

Source: 6D13008-11

Prepared & Analyzed: 04/13/06

Carbon Ranges C6-C12	528	10.0	mg/kg dry	560	ND	94.3	75-125	0.951	20	
Carbon Ranges C12-C28	521	10.0	"	560	ND	93.0	75-125	1.52	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1120	ND	93.8	75-125	0.00	20	
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	42.4		"	50.0		84.8	70-130			

Environmental Lab of Texas

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Page 5 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch ED61410 - General Preparation (Prep)</b>									
<b>Blank (ED61410-BLK1)</b>					Prepared: 04/13/06 Analyzed: 04/14/06				
% Solids	100		%						
<b>Duplicate (ED61410-DUP1)</b>					Source: 6D13001-01 Prepared: 04/13/06 Analyzed: 04/14/06				
% Solids	98.2		%		98.1		0.102	20	
<b>Duplicate (ED61410-DUP2)</b>					Source: 6D13008-10 Prepared: 04/13/06 Analyzed: 04/14/06				
% Solids	88.0		%		88.3		0.340	20	
<b>Duplicate (ED61410-DUP3)</b>					Source: 6D13012-04 Prepared: 04/13/06 Analyzed: 04/14/06				
% Solids	92.1		%		94.4		2.47	20	

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Midland TX, 79706-4476

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
04/14/06 15:52

### 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.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

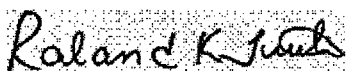
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

4/14/2006

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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# Environmental Lab of Texas

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Odessa, Texas 79765

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**Fax: 432-563-1713**

**Fax: 432-563-1713**

**Project Manager:**

**Company Name**

**Company Address:**

City/State/Zip:

Telephone No: 432-570-7720

**Sampler Signature:**

**Fax No:**

Fax No: 432-520-7701

2018-11-18

附錄

2017-10-24

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Name:**

**Project #:**

**Project Loc:**

**Special Instructions:**

Sample Containers Intact?

**Temperature Upon Receipt:**

**Laboratory Comments:**

၆၁

for glass

LAB # (lab use only)	FIELD CODE	Date Sampled mo/d/y	Time Sampled	No. of Containers	ANALYSIS										Other (Specify):	Time
					ice	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	None	Other (Specify)	Water	Siludge	Soil		
01	WEST #1	4/12	13:50	1 X	X									X	TPH: 418.1 8015M 1004 100	1030
02	EAST #1	4/12	14:00	1 X										X		

TPH: 418.1	8015M	1005	1005
Cations (Ca, Mg, Na, K)			
Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )			
SAR / ESP / CEC			
Metals: As Ag Ba Cd Cr Pb Hg Se			
Volatiles			
Semivolatiles			
BTEX 8021B/8030 or BTEX 8260			
RCI			
N.O.R.M.			
X X 8015M 1005/1005			
PUSH TAT (Pre-Schedule)			

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

ent: Plains/NOVA  
 ate/Time: 4/13/06 10:40  
 der #: 6D13009  
 tials: CK

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	3.5 C
Shipping container/cooler in good condition?	<del>Yes</del>	No	
Study Seals intact on shipping container/cooler?	Yes	No	Not present
Study Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	IP on cap
Container labels legible and intact?	Yes	No	n/a
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	
Reservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
1 samples received within sufficient hold time?	Yes	No	
QC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

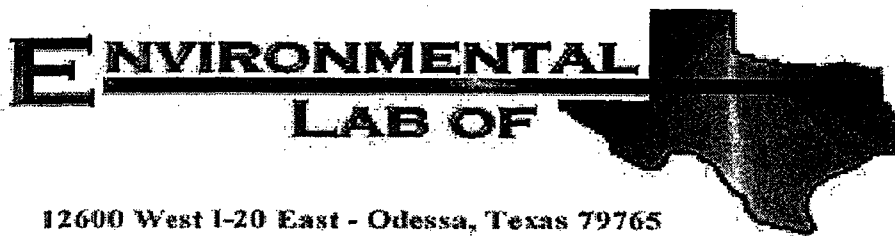
**Variance Documentation:**

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Red Byrd #3

Project Number: 2000-10478

Location: Monument, NM

Lab Order Number: 6E25006

Report Date: 06/01/06

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
06/01/06 17:03

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Side #1	6E25006-01	Soil	05/23/06 10:50	05/25/06 10:00
East Side #1	6E25006-02	Soil	05/23/06 10:40	05/25/06 10:00

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
06/01/06 17:03

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West Side #1 (6E25006-01) Soil</b>									
Carbon Ranges C6-C12	ND	20.0	mg/kg dry	2	EE62506	05/25/06	05/29/06	EPA 8015M	
Carbon Ranges C12-C28	635	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	414	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	1050	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		49.4 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		51.0 %	70-130		"	"	"	"	S-06
<b>East Side #1 (6E25006-02) Soil</b>									
Carbon Ranges C6-C12	ND	20.0	mg/kg dry	2	EE62506	05/25/06	05/29/06	EPA 8015M	
Carbon Ranges C12-C28	843	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	638	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	1480	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		54.8 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		57.2 %	70-130		"	"	"	"	S-06



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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
06/01/06 17:03

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West Side #1 (6E25006-01) Soil</b>									
% Moisture	0.7	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	
<b>East Side #1 (6E25006-02) Soil</b>									
% Moisture	0.7	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
06/01/06 17:03

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

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

**Batch EE62506 - Solvent Extraction (GC)**

**Blank (EE62506-BLK1)**

Prepared: 05/25/06 Analyzed: 05/31/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	70-130			
Surrogate: 1-Chlorooctadecane	53.5		"	50.0		107	70-130			

**LCS (EE62506-BS1)**

Prepared: 05/25/06 Analyzed: 05/31/06

Carbon Ranges C6-C12	567	10.0	mg/kg wet	500		113	75-125			
Carbon Ranges C12-C28	562	10.0	"	500		112	75-125			
Total Hydrocarbon nC6-nC35	1130	10.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130			

**Calibration Check (EE62506-CCV1)**

Prepared: 05/25/06 Analyzed: 05/29/06

Carbon Ranges C6-C12	271		mg/kg	250		108	80-120			
Carbon Ranges C12-C28	290		"	250		116	80-120			
Total Hydrocarbon nC6-nC35	561		"	500		112	80-120			
Surrogate: 1-Chlorooctane	47.2		"	50.0		94.4	70-130			
Surrogate: 1-Chlorooctadecane	46.4		"	50.0		92.8	70-130			

**Matrix Spike (EE62506-MS1)**

Source: 6E24002-15

Prepared: 05/25/06 Analyzed: 05/31/06

Carbon Ranges C6-C12	486	10.0	mg/kg dry	504	ND	96.4	75-125			
Carbon Ranges C12-C28	540	10.0	"	504	65.6	94.1	75-125			
Total Hydrocarbon nC6-nC35	1030	10.0	"	1010	65.6	95.5	75-125			
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	70-130			
Surrogate: 1-Chlorooctadecane	46.1		"	50.0		92.2	70-130			

Environmental Lab of Texas

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

Page 4 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
06/01/06 17:03

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

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

**Batch EE62506 - Solvent Extraction (GC)**

**Matrix Spike Dup (EE62506-MSD1)**

Source: 6E24002-15

Prepared: 05/25/06 Analyzed: 05/31/06

Carbon Ranges C6-C12	479	10.0	mg/kg dry	504	ND	95.0	75-125	1.45	20	
Carbon Ranges C12-C28	526	10.0	"	504	65.6	91.3	75-125	2.63	20	
Total Hydrocarbon nC6-nC35	1000	10.0	"	1010	65.6	92.5	75-125	2.96	20	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.6	70-130			
Surrogate: 1-Chlorooctadecane	45.3		"	50.0		90.6	70-130			

Environmental Lab of Texas

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Page 5 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:  
06/01/06 17:03

**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
<b>Batch EE62607 - General Preparation (Prep)</b>										
<b>Blank (EE62607-BLK1)</b>										
					Prepared: 05/25/06 Analyzed: 05/26/06					
% Solids	100		%							
<b>Duplicate (EE62607-DUP1)</b>										
Source: 6E24016-01					Prepared: 05/25/06 Analyzed: 05/26/06					
% Solids	96.6		%		96.8			0.207	20	
<b>Duplicate (EE62607-DUP2)</b>										
Source: 6E24016-21					Prepared: 05/25/06 Analyzed: 05/26/06					
% Solids	99.6		%		99.9			0.301	20	
<b>Duplicate (EE62607-DUP3)</b>										
Source: 6E24016-41					Prepared: 05/25/06 Analyzed: 05/26/06					
% Solids	99.7		%		99.5			0.201	20	
<b>Duplicate (EE62607-DUP4)</b>										
Source: 6E25007-02					Prepared: 05/25/06 Analyzed: 05/26/06					
% Solids	90.8		%		89.7			1.22	20	

Environmental Lab of Texas

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Page 6 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914  
Reported:  
06/01/06 17:03

### 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.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

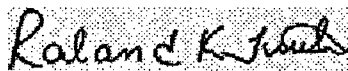
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/1/2006

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

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

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

**Project Manager:**

Cvet Sprudel

Company Name

# NOVA SAFETY : ENVIRONMENTAL

**Company Address:**

2057 Commerce

City/State/Zip:

Midland, TX 79703

**Telephone No.:**

37-570-1120

**Sampler Signature:**

20

**Fax:**

432-520-7701

**Project Name:**

Plans Red Byed #3

**Project #:**

067-01-006

Project Loc:

Momument, NM

送

02/6

[illegible]

**Special Instructions:**

\_\_\_\_\_

Relinquished by: Carl D. Stanley

Date	Time
------	------

Book 110

**Received by:**

Received by: .

Received by ELOT: *Carle 1002*

---

[illegible]

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

**Temperature Upon Receipt:**

**Laboratory Comments:**

5

452 2/05.

w/o brs or seals

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

Client: Nova Plains  
 Date/Time: 5/25/06 10:00  
 Order #: 6F25006  
 Initials: CK

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	<u>13</u> C
Shipping container/cooler in good condition?	<u>YES</u>	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<u>Not present</u>
Custody Seals intact on sample bottles?	Yes	No	<u>Not present</u>
Chain of custody present?	<u>YES</u>	No	
Sample Instructions complete on Chain of Custody?	<u>YES</u>	No	
Chain of Custody signed when relinquished and received?	<u>YES</u>	No	
Chain of custody agrees with sample label(s)	<u>YES</u>	No	<u>ED on jar</u>
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	<u>YES</u>	No	
Samples in proper container/bottle?	<u>YES</u>	No	
Samples properly preserved?	<u>YES</u>	No	
Sample bottles intact?	<u>YES</u>	No	
Preservations documented on Chain of Custody?	<u>YES</u>	No	
Containers documented on Chain of Custody?	<u>YES</u>	No	
Sufficient sample amount for indicated test?	<u>YES</u>	No	
All samples received within sufficient hold time?	<u>YES</u>	No	
VOC samples have zero headspace?	<u>YES</u>	No	Not Applicable

Other observations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Variance Documentation:**

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_

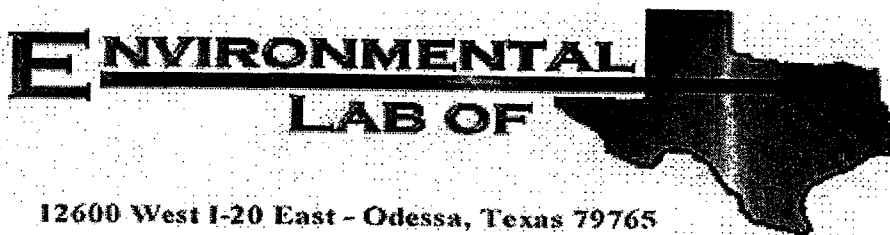
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## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Red Byrd #3

Project Number: 2000-10478

Location: Monument, NM

Lab Order Number: 6J04006

Report Date: 10/09/06



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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South Sidewall	6J04006-01	Soil	10/03/06 12:10	10-04-2006 11:25
West Sidewall	6J04006-02	Soil	10/03/06 12:15	10-04-2006 11:25
North Sidewall	6J04006-03	Soil	10/03/06 12:20	10-04-2006 11:25
East Sidewall	6J04006-04	Soil	10/03/06 12:25	10-04-2006 11:25

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>South Sidewall (6J04006-01) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60515	10/05/06	10/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		95.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.0 %	70-130		"	"	"	"	
<b>West Sidewall (6J04006-02) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60515	10/05/06	10/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.6 %	70-130		"	"	"	"	
<b>North Sidewall (6J04006-03) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60515	10/05/06	10/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.8 %	70-130		"	"	"	"	
<b>East Sidewall (6J04006-04) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60515	10/05/06	10/06/06	EPA 8015M	
Carbon Ranges C12-C28	32.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	16.6	10.0	"	"	"	"	"	"	
Total Hydrocarbons	48.9	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		100 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		95.4 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>South Sidewall (6J04006-01) Soil</b>									
% Moisture	14.0	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	
<b>West Sidewall (6J04006-02) Soil</b>									
% Moisture	10.1	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	
<b>North Sidewall (6J04006-03) Soil</b>									
% Moisture	8.6	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	
<b>East Sidewall (6J04006-04) Soil</b>									
% Moisture	11.8	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EJ60515 - Solvent Extraction (GC)</b>									
<b>Blank (EJ60515-BLK1)</b>					Prepared & Analyzed: 10/05/06				
Carbon Ranges C6-C12	ND	10.0	mg/kg wet						
Carbon Ranges C12-C28	ND	10.0	"						
Carbon Ranges C28-C35	ND	10.0	"						
Total Hydrocarbons	ND	10.0	"						
Surrogate: 1-Chlorooctane	42.5		mg/kg	50.0		85.0	70-130		
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130		
<b>LCS (EJ60515-BS1)</b>					Prepared & Analyzed: 10/05/06				
Carbon Ranges C6-C12	454	10.0	mg/kg wet	500		90.8	75-125		
Carbon Ranges C12-C28	430	10.0	"	500		86.0	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125		
Total Hydrocarbons	884	10.0	"	1000		88.4	75-125		
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	70-130		
Surrogate: 1-Chlorooctadecane	43.2		"	50.0		86.4	70-130		
<b>Calibration Check (EJ60515-CCV1)</b>					Prepared: 10/05/06 Analyzed: 10/06/06				
Carbon Ranges C6-C12	204		mg/kg	250		81.6	80-120		
Carbon Ranges C12-C28	230		"	250		92.0	80-120		
Total Hydrocarbons	434		"	500		86.8	80-120		
Surrogate: 1-Chlorooctane	56.2		"	50.0		112	70-130		
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130		
<b>Matrix Spike (EJ60515-MS1)</b>					Source: 6J05003-01	Prepared: 10/05/06 Analyzed: 10/06/06			
Carbon Ranges C6-C12	545	10.0	mg/kg dry	570	ND	95.6	75-125		
Carbon Ranges C12-C28	545	10.0	"	570	51.1	86.6	75-125		
Carbon Ranges C28-C35	12.0	10.0	"	0.00	34.4		75-125		
Total Hydrocarbons	1100	10.0	"	1140	85.5	89.0	75-125		
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130		
Surrogate: 1-Chlorooctadecane	48.0		"	50.0		96.0	70-130		

Environmental Lab of Texas

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

Page 4 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**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
<b>Batch EJ60515 - Solvent Extraction (GC)</b>										
<b>Matrix Spike Dup (EJ60515-MSD1)</b>		<b>Source: 6J05003-01</b>			<b>Prepared: 10/05/06 Analyzed: 10/06/06</b>					
Carbon Ranges C6-C12	632	10.0	mg/kg dry	570	ND	111	75-125	14.8	20	
Carbon Ranges C12-C28	605	10.0	"	570	51.1	97.2	75-125	10.4	20	
Carbon Ranges C28-C35	8.26	10.0	"	0.00	34.4		75-125	36.9	20	R5, J
Total Hydrocarbons	1240	10.0	"	1140	85.5	101	75-125	12.0	20	
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	55.2		"	50.0		110	70-130			

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EJ60503 - General Preparation (Prep)</b>									
<b>Blank (EJ60503-BLK1)</b>									
					Prepared: 10/04/06 Analyzed: 10/05/06				
% Solids	100		%						
<b>Duplicate (EJ60503-DUP1)</b>									
Source: 6J03011-01					Prepared: 10/04/06 Analyzed: 10/05/06				
% Solids	98.2		%		98.3		0.102	20	
<b>Duplicate (EJ60503-DUP2)</b>									
Source: 6J04003-01					Prepared & Analyzed: 10/04/06				
% Solids	94.7		%		94.4		0.317	20	

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

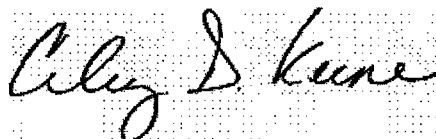
Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

R5 RPD is outside of historic values  
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date:

10/9/2006

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

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

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

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

Environmental Lab of Texas

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### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Red Byrd #3

Project #: 2000-10478

Project Loc: Moulvement, NM

PO 系:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

W

	TOTAL	SAR / ESP / CEC	Metalte: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Sanitization	BTEX 8021B/6090 or BTEX 8280	RCL	N.O.R.M.							
Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )														
TPH: 418.1 (SOLIM) 1005 1006															

Analyze For:  
☐ TGP  
☒ TOTAL

RUSH YAT (Pre-Schedule) 2d, 4B, 7Z hrs

Laboratory Comments:

- Sample Containers Intact?
- VOC's Free of Headspace?
- Custody seals on container(s)?
- Custody seals on cooler(s)?
- Sample Hand Delivered.
- by Sampler/Clerk Rep? ?
- by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.0 °C



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

Client: Plains  
Date/ Time: 10/4/06 11:25  
Lab ID #: 12-504006  
Initials: CK

**Sample Receipt Checklist**

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.0 °C
#2	Shipping container in good condition?	<del>Yes</del>	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	<del>Yes</del>	No	
#6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No	
#7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No	
#8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont. <del>Lid</del>
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No	
#11	Containers supplied by ELOT?	<del>Yes</del>	No	
#12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below
#13	Samples properly preserved?	<del>Yes</del>	No	See Below
#14	Sample bottles intact?	<del>Yes</del>	No	
#15	Preservations documented on Chain of Custody?	<del>Yes</del>	No	
#16	Containers documented on Chain of Custody?	<del>Yes</del>	No	
#17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below
#18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below
#19	VOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable

**Variance Documentation**

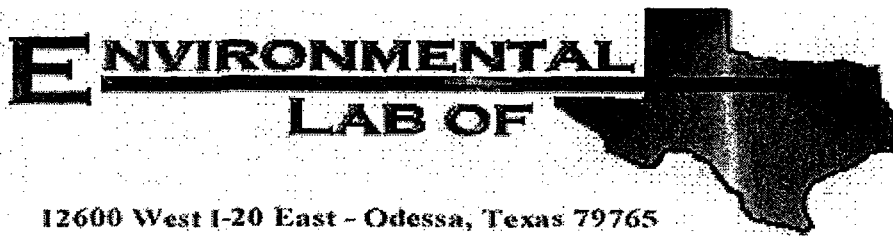
Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Red Byrd #3

Project Number: 2000-10478

Location: Monument, NM

Lab Order Number: 6J04007

Report Date: 10/06/06

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Floor@ 1.5'	6J04007-01	Soil	10/03/06 12:00	10-04-2006 11:25
East Floor@ 1.5'	6J04007-02	Soil	10/03/06 12:05	10-04-2006 11:25

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West Floor@ 1.5' (6J04007-01) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60510	10/05/06	10/05/06	EPA 8015M	
Carbon Ranges C12-C28	31.8	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	17.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	49.6	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.6 %	70-130		"	"	"	"	
<b>East Floor@ 1.5' (6J04007-02) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ60510	10/05/06	10/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		86.6 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>West Floor@ 1.5' (6J04007-01) Soil</b>									
% Moisture	10.3	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	
<b>East Floor@ 1.5' (6J04007-02) Soil</b>									
% Moisture	12.9	0.1	%	1	EJ60503	10/04/06	10/05/06	% calculation	

Environmental Lab of Texas

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**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 EJ60510 - Solvent Extraction (GC)**

**Blank (EJ60510-BLK1)**

Prepared & Analyzed: 10/05/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.2	70-130			
Surrogate: 1-Chlorooctadecane	40.5		"	50.0		81.0	70-130			

**LCS (EJ60510-BS1)**

Prepared & Analyzed: 10/05/06

Carbon Ranges C6-C12	445	10.0	mg/kg wet	500		89.0	75-125			
Carbon Ranges C12-C28	417	10.0	"	500		83.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	862	10.0	"	1000		86.2	75-125			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	42.2		"	50.0		84.4	70-130			

**Calibration Check (EJ60510-CCV1)**

Prepared & Analyzed: 10/05/06

Carbon Ranges C6-C12	207		mg/kg	250		82.8	80-120			
Carbon Ranges C12-C28	246		"	250		98.4	80-120			
Total Hydrocarbons	453		"	500		90.6	80-120			
Surrogate: 1-Chlorooctane	52.3		"	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			

**Matrix Spike (EJ60510-MS1)**

Source: 6J04001-14

Prepared & Analyzed: 10/05/06

Carbon Ranges C6-C12	553	10.0	mg/kg dry	613	ND	90.2	75-125			
Carbon Ranges C12-C28	531	10.0	"	613	ND	86.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1080	10.0	"	1230	ND	87.8	75-125			
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	44.9		"	50.0		89.8	70-130			

Environmental Lab of Texas

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Page 4 of 7

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**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
<b>Batch EJ60510 - Solvent Extraction (GC)</b>										
<b>Matrix Spike Dup (EJ60510-MSD1)</b>		<b>Source: 6J04001-14</b>			<b>Prepared &amp; Analyzed: 10/05/06</b>					
Carbon Ranges C6-C12	557	10.0	mg/kg dry	613	ND	90.9	75-125	0.721	20	
Carbon Ranges C12-C28	557	10.0	"	613	ND	90.9	75-125	4.78	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1110	10.0	"	1230	ND	90.2	75-125	2.74	20	
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	45.6		"	50.0		91.2	70-130			

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

Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**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 EJ60503 - General Preparation (Prep)**

**Blank (EJ60503-BLK1)**

Prepared: 10/04/06 Analyzed: 10/05/06

% Solids	100	%
----------	-----	---

**Duplicate (EJ60503-DUP1)**

Source: 6J03011-01

Prepared: 10/04/06 Analyzed: 10/05/06

% Solids	98.2	%	98.3	0.102	20
----------	------	---	------	-------	----

Environmental Lab of Texas

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

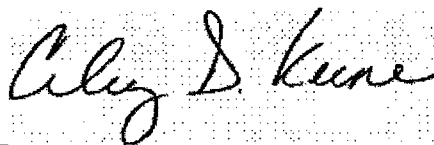
Project: Red Byrd #3  
Project Number: 2000-10478  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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

Report Approved By:



Date: 10/6/2006

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

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

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

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



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

Client: Plains  
Date/ Time: 10/4/06 11:25  
Lab ID #: 12J04007  
Initials: UK

**Sample Receipt Checklist**

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	3.0 °C	
#2	Shipping container in good condition?	<del>Yes</del>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	<del>Yes</del>	No		
#6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No		
#7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No		
#8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont. <del>Lid</del>	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No		
#11	Containers supplied by ELOT?	<del>Yes</del>	No		
#12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below	
#13	Samples properly preserved?	<del>Yes</del>	No	See Below	
#14	Sample bottles intact?	<del>Yes</del>	No		
#15	Preservations documented on Chain of Custody?	<del>Yes</del>	No		
#16	Containers documented on Chain of Custody?	<del>Yes</del>	No		
#17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below	
#18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below	
#19	VOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable	

**Variance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event

## Appendix B

### Photographs

**Client:** Plains Marketing, L.P.  
**Location:** Lea County, New Mexico  
**Photograph Date:** As Noted

**Prepared by:** NOVA  
**Photographer:** Curt Stanley  
**Project Name:** Red Byrd #3

**Photograph No. 1**

**Date:** 5/24/05

**Direction:** Facing North

**Description:** Red Byrd  
#3 site in foreground,  
prior to excavation of  
impacted soil.

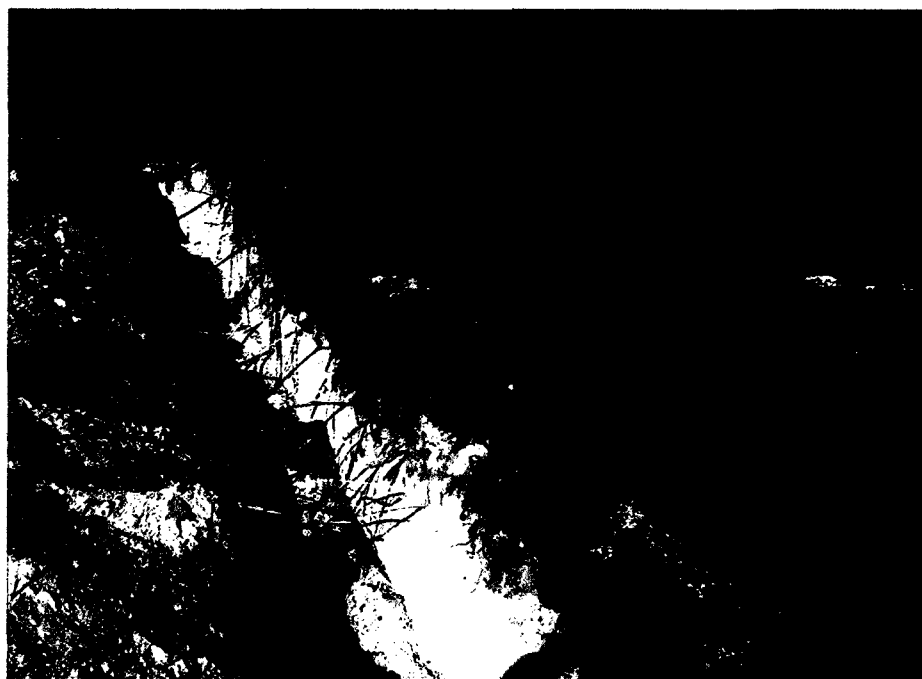


**Photograph No. 2**

**Date:** 10/17/05

**Direction:** Facing  
Southwest

**Description:** Test  
Trench T-6 exhibiting  
impacted soil from  
surface to approximately  
8 inches below surface



**Client:** Plains Marketing, L.P.  
**Location:** Lea County, New Mexico  
**Photograph Date:** As Noted

**Prepared by:** NOVA  
**Photographer:** Curt Stanley  
**Project Name:** Red Byrd #3

**Photograph No. 3**

**Date:** 10/30/06

**Direction:** Facing  
Northeast

**Description:** Backfilled  
excavation and restored  
surface grade



**Photograph No. 4**

**Date:** 10/30/06

**Direction:** Facing  
Southeast

**Description:** Backfilled  
excavation and restored  
surface grade



Appendix C  
Certificate of Non-Exempt Waste Status  
(Form C-138)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Plains Marketing
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site 4" Steel Pipeline ref#2000-10478
2. Management Facility Destination: Plains All American Lea Station Land Farm #GW-351	6. Transporter
3. Address of Facility Operator: Environmental Plus, Inc.	8. State New Mexico
7. Location of Material (Street Address or ULSTR)   UL- G, SW¼ of the NE¼ of Section 12 T20S R36E	
9. <u>Circle One</u> :  A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input checked="" type="checkbox"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

#### BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Camille Reynolds TITLE: Environmental Coordinator DATE: 9/14/2006  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Camille Reynolds TELEPHONE NO. \_\_\_\_\_ 505-441-0965

(This space for State Use)		
APPROVED BY: <u>Pat Caperton</u>	TITLE: <u>Geological &amp; Petroleum Tech</u>	DATE: <u>9/14/06</u>
APPROVED BY: _____	TITLE: _____	DATE: _____



Appendix D  
Release Notification and Corrective Action  
(Form C-141)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds	
Address 3112 West Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965	
Facility Name Red Byrd #3	Facility Type 4" Steel Pipeline	
Surface Owner Red Byrd	Mineral Owner	Lease No.

**LOCATION OF RELEASE**

Unit Letter G	Section 12	Township 20S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32° 35' 28.1"

Longitude 103° 18' 28.6"

**NATURE OF RELEASE**

Type of Release Crude Oil	Volume of Release Unknown	Volume Recovered Unknown
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence	Date and Hour of Discovery Winter of 1983-1984
Was Immediate Notice Given? Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
Describe Area Affected and Cleanup Action Taken.* <b>NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.</b>		

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

Signature: <i>Camille Reynolds</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds		Approved by District Supervisor:	
Title: Remediation Coordinator		Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com		Conditions of Approval:	
Date: 8/4/05 Phone: 505-441-0965		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report

☒ Final Report

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Address 3112 West Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
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Surface Owner Red Byrd	Mineral Owner	Lease No.
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If a Watercourse was Impacted, Describe Fully.\*

1 RP # 1155  
FINAL APPROVAL

Describe Cause of Problem and Remedial Action Taken.\*

Describe Area Affected and Cleanup Action Taken.\*

**NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.**

As per NMOCD approval the crude oil release site was excavated, confirmation soil samples were collected from the floor and walls of the excavation. The excavated soil was transported to Lea Station Landfarm. Backfill material was purchased from the landowner and the site was restored to topographic grade.

Please see the attached Nova Safety and Environmental Closure Request dated December 2006 for details of remedial activities conducted for site closure.

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

Signature: <i>Camille Reynolds</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds	Approved by District Supervisor: <i>[Signature]</i>	
Title: Remediation Coordinator	Approval Date: <u>1-18-07</u>	Expiration Date: <u>—</u>
E-mail Address: <u>cjreynolds@paalp.com</u>	Conditions of Approval: <u>—</u>	Attached <input type="checkbox"/>
Date: <u>01/16/2007</u>	Phone: <u>505-441-0965</u>	

\* Attach Additional Sheets If Necessary