

**PLAINS**  
**ALL AMERICAN**  
**PIPELINE, L.P.**

## SOIL REMEDIATION, CLOSURE DOCUMENTATION, AND FINAL C-141

Young Deep to Lynch 8"  
Ref. # #2004-00180

UL-H (SE¼ of the NE¼) of Section 11, R33E, T20S  
Latitude 32° 35' 27.30"N and Longitude 103° 37' 41.48"W  
Elevation ~3,590'amsl

34.5 miles west of Hobbs, Lea County, New Mexico

Date  
November 9, 2004

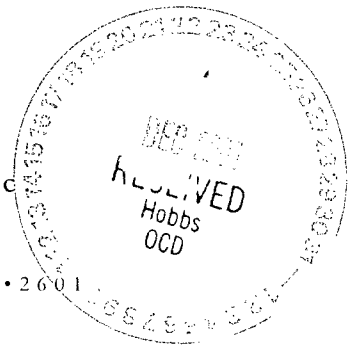
Prepared by

Environmental Plus, Inc.

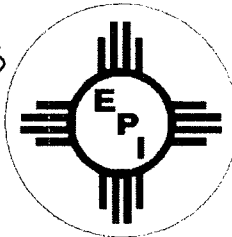
2100 Avenue O  
P.O. Box 1558

Funice, New Mexico 88231

Tele 505•394•3481 FAX 505•394•2601



*Plains - 34053*  
*Facility - f PAC0602449037*  
*Inspection - c PAC0602449183*  
*Incident - n PAC0602449563*  
*Application - p PAC0602449856*





ENVIRONMENTAL PLUS, INC.

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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

December 16, 2004

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

Subject: Plains All American Final C-141

Re: Young Deep to Lynch 8", #2004-00180  
UL H, SE¼ of the NE¼ of Section 11 T20S R33E  
Latitude 32° 35' 27.30"N and Longitude 103° 37' 41.48"W  
Landowner: Bureau of Land Management

Dear Mr. Johnson,

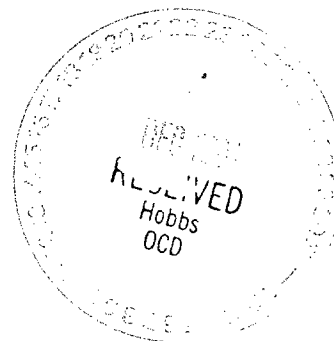
Included herewith please find the New Mexico Oil Conservation Division (NMOCD) final form C-141 and documentation, i.e., "Plains Soil Remediation, Closure Documentation, and Final C-141 for the Young Deep to Lynch 8 ref.#2004-00180" being submitted by Environmental Plus, Inc. (EPI), on behalf of Camille Reynolds, Plains All American for the above referenced leak site located on land owned by the Bureau of Land Management, approximately 34.5 miles west of Hobbs, New Mexico. EPI, on behalf of Plains, requests "no further action" be required at the site except final reseeding in the spring of 2005.

If there are any questions please call Mr. Cody Miller or myself at the office or at 505.631.8447 and 505.390.7864, respectively or Camille Reynolds at 505.396.3341. All official communication should be addressed to:

Camille Reynolds  
Plains All American  
PO Box 3119  
Midland, Texas 79706  
(CJReynolds@paalp.com)

Sincerely,

Pat McCasland  
EPI Technical Services Manager



ENVIRONMENTAL PLUS, INC.



**ENVIRONMENTAL PLUS, INC.**

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**STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES**

cc: Camille Reynolds, Plains All American (CJReynolds@paalp.com)  
Jeff Dann, Plains All American (JPdann@paalp.com)  
Cody Miller, EPI Vice President and General Manager (enviplus1@aol.com)  
Sherry Miller, EPI President  
file

ENVIRONMENTAL PLUS, INC.


**Site Information and Metrics**

Incident Date:

8-5-04@7:30AM

NMOCD Notified:

8-05-04@2:15PM

SITE: Young Deep to Lynch 8"		Assigned Site Reference #: #2004-00180	
Company: Plains All American			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Camille Reynolds			
Representative Telephone: 505.393.5611			
Telephone:			
Fluid volume released (bbls): 10		Recovered (bbls): 0 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Young Deep to Lynch 8"			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bureau of Land Management			
LSP Dimensions ~25' x 7'			
LSP Area: 78 ft <sup>2</sup>			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32° 35' 27.30"N			
Longitude: 103° 37' 41.48"W			
Elevation above mean sea level: 3,590' amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼¼: SE¼ of the NE¼		Unit Letter: H	
Location- Section: 11			
Location- Township: T20S			
Location- Range: R33E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to ground water (DG) 150			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - ?			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
Ground water Score = 0		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 0		Surface Water Score = 0	
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

<sup>1</sup>100 ppm field VOC headspace measurement may be substituted for lab analysis

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 March 17, 1999

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 <b>Plains All American</b>	Contact <b>Camille Reynolds</b>
Address <b>PO Box 3119 Midland, Texas 79702</b>	Telephone No. <b>505.393.5611</b>
Facility Name <b>Young Deep to Lynch 8" #2004-00180</b>	Facility Type <b>8" Steel Pipeline</b>

Surface Owner: <b>Bureau of Land Management</b>	Mineral Owner	Lease No.
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### LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>11</b>	Township <b>T20S</b>	Range <b>R33E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County: <b>Lea</b>
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Latitude: 32° 35' 27.30"N Longitude: 103° 37' 41.48"W

### NATURE OF RELEASE

Type of Release <b>Sweet Crude Oil</b>	Volume of Release <b>10 barrels</b>	Volume Recovered <b>0 bbls barrels</b>
Source of Release <b>8" Steel Pipeline</b>	Date and Hour of Occurrence <b>8-5-04@7:30AM</b>	Date and Hour of Discovery <b>8-5-04@8:00AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Larry Johnson</b>	
By Whom?	Date and Hour <b>8-05-04@2:15PM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\*  
**NA**

Describe Cause of Problem and Remedial Action Taken. **\*8" Steel Transmission Pipeline; Leak was due to internal corrosion; Temporary repair clamp installed; Operating Pressure = 100-120 psi; API Gravity = 38-42 degrees; H<sub>2</sub>S = <10 ppm; Daily volume = ~2,600 bbls.**

Describe Area Affected and Cleanup Action Taken. **\*□ Visibly contaminated soil was excavated and stored on plastic to await analytical results. The soil will be blended to below the NMOCD remedial goals on site or taken to the Plains Lea Station Landfarm for remediation. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.**

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:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Camille Reynolds (e-mail: CJReynolds@paalp.com)	Approved by District Supervisor:		
Title: District Environmental Supervisor	Approval Date:	Expiration Date:	
Date: December 20, 2004 Phone: 505.396.3341	Conditions of Approval:	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

## STANDARD OF CARE

### Environmental Assessment and Remediation Report

Young Deep to Lynch 8"  
Ref. # 2004-00180

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

This report was prepared by:



Patrick W. McCasland

12.16.04

Date

This report was reviewed by:

Iain Olness, PG

Date

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## 1.0 INTRODUCTION

This site is located in UL-H (SE¼ of the NE¼) of Section 11, R33E, T20S at Latitude 32° 35' 27.30"N and Longitude 103° 37' 41.48"W approximately 34.5 miles west of Hobbs, Lea County, New Mexico on property owned by the Bureau of Land Management. A topographical map is included in Attachment I. The estimated 10 barrel (bbl) crude oil leak, attributed to internal/external corrosion, occurred on 8-5-04 at 7:30 A.M. in the Young Deep to Lynch 8" steel pipeline with 0 bbls recovered. Approximately 78 square feet (ft<sup>2</sup>) (~25' x 7') of surface was initially affected. During the preliminary investigation, ground water was estimated to occur at approximately 325' below ground surface ('bgs) giving soil down to 225'bgs a 0 point New Mexico Oil Conservation Division (NMOCD) ranking score that applies the following remedial guidelines for the constituents of concern (CoCs);

- Benzene= 10 mg/Kg
- BTEX= 50 mg/Kg  
(BTEX is the mass sum of benzene, toluene, ethylbenzene, and xylenes)
- Total Petroleum Hydrocarbon 8015m(TPH<sup>8015m</sup>)= 5000 mg/Kg

On August 5, 2004, with Plains oversight, EPI responded to the release and excavated a portion of the visibly contaminated and odorous soil and stockpiled on site. On August 31, 2004, the sides and bottom of the excavation were sampled. The east and west sidewalls and the excavation bottom remained impacted above the CoC remedial goals and required further investigation. On September 16, 2004 the site delineation proposal approved by the NMOCD and BLM was implemented. The results of the delineation were submitted by letter on September 23, 2004 in the "Plains Young Deep to Lynch 8" #2004-00180 Site Investigation and Remediation Proposal." After NMOCD and BLM approval, the remediation proposal was implemented. The remediation proposal was to remove impacted soil down to 15'bgs and laterally until the CoC remedial goals were achieved and confirmed by laboratory analyses. The impacted soil would be blended with local clean to below the CoC remedial goals, placed back into the excavation, the site contoured to grade, and the site reseeded in the spring of 2005. This report documents successful implementation of the remediation proposal and provides necessary support documentation in support of the NMOCD requiring "no further action" at the site. The final NMOCD form C-141 is included in Attachment V.

## 2.0 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved **"General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000"** and the NMOCD guidelines published in the following documents;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)



- **Unlined Surface Impoundment Closure Guidelines (February 1993)**

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH<sup>8015m</sup>, benzene, and BTEX, i.e., the mass sum of benzene, toluene, ethylbenzene, and total xylene, were determined based on the NMOCD Ranking Criteria as follows;

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

## **2.1 GEOLOGICAL DESCRIPTION**

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche.

## **2.2 ECOLOGICAL DESCRIPTION**

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

## **2.3 AREA GROUND WATER**

The New Mexico Office of the State Engineer website database indicates groundwater in the area occurs at approximately 325'bgs. According to the USGS, the ground water elevation decreases generally to the southeast.

## **2.4 AREA WATER WELLS**

The New Mexico Office of the State Engineer records a single well in Section 5 T20S R33E approximately 3 miles to the west of the site approximately 325'bgs.

## **2.5 AREA SURFACE WATER BODIES**

There are no permanent or intermittent surface water bodies within 1,000 horizontal feet of the site.

### 3.0 NMOCD SITE RANKING

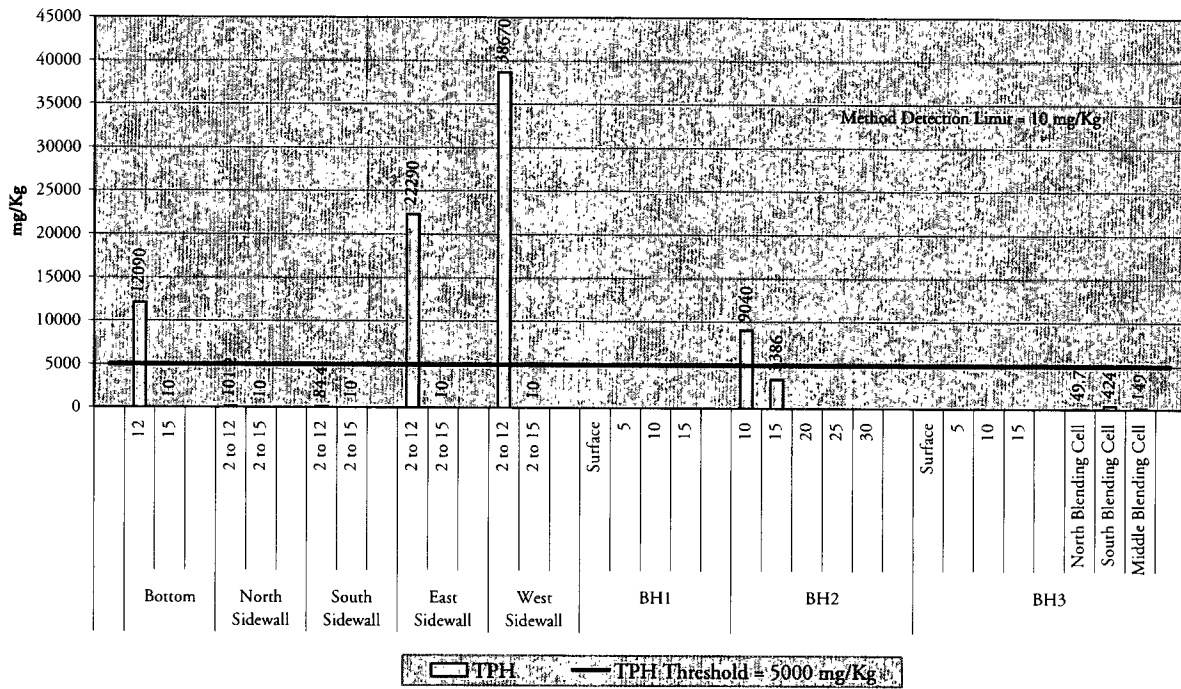
Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water, the site surface soil down to 225'bgs has an NMOCD ranking score of 0 points with the soil remedial goals highlighted below in the Site Ranking Matrix.

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: 20 points	If <1000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points	
If Depth to GW 50 to 99 feet: 10 points		200-100 horizontal feet: 10 points	
If Depth to GW >100 feet: 0 points	If >1000' from water source, or; >200' from private domestic water source: 0 points	>1000 horizontal feet: 0 points	
Ground water Score = 0	Wellhead Protection Area Score= 0	Surface Water Score= 0	
Site Rank (1+2+3) = 0 + 0 + 0 = 0 points			
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	>19 (275 to 325'bgs)	10-19 (225 to 275'bgs)	0-9 (surface to 225'bgs)
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

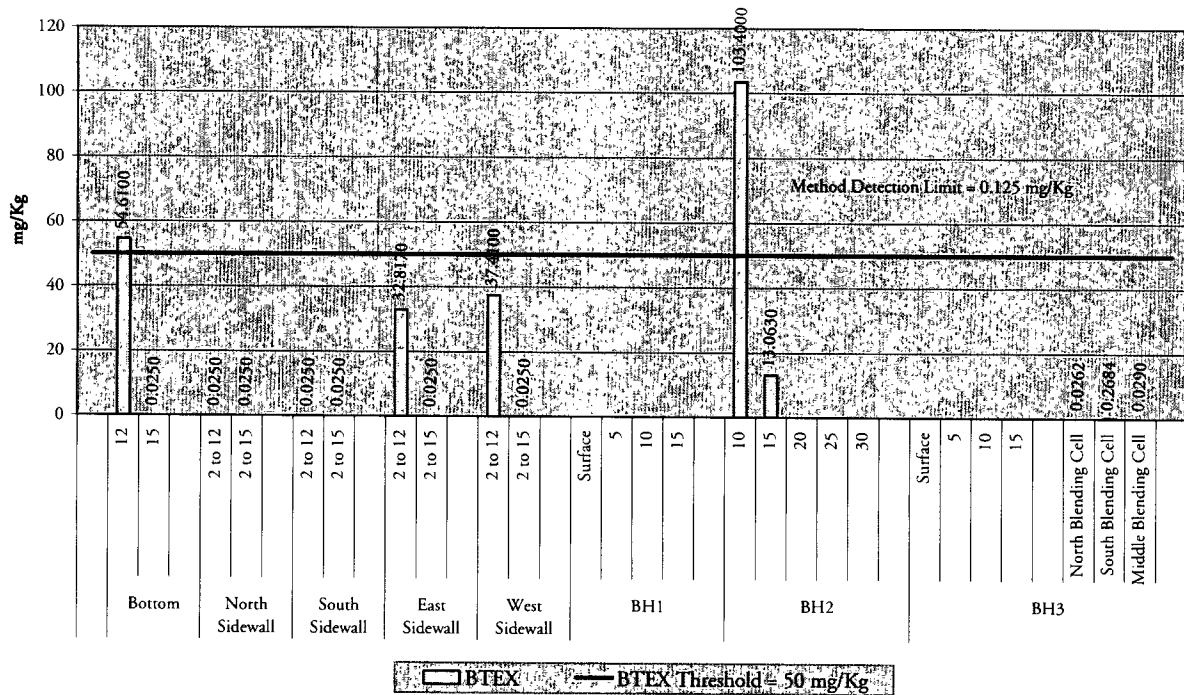
### 4.0 SOIL INVESTIGATION

On August 5, 2004, with Plains oversight, EPI excavated a portion of the visibly contaminated and odorous soil and stockpiled on a plastic barrier south of the excavation inside an exclusionary fence. On August 31, 2004, the sides and bottom of the excavation were sampled and analyzed. The east and west sidewalls and the excavation bottom remained impacted above the CoC remedial goals and required further investigation. On September 16, 2004 the site delineation proposal approved by the NMOCD and BLM was implemented. The results of the delineation were submitted by letter on September 23, 2004 in the "Plains Young Deep to Lynch 8" #2004-00180 Site Investigation and Remediation Proposal." Three soil borings were advanced and sampled using a hollow stem auger rig; borehole BH1 was advanced and sampled approximately 10' east of the leak origin, borehole BH2 was advanced and sampled adjacent to the leak origin, and borehole BH3 was advanced and sampled approximately 10' west of the leak origin. The annotated site map is included in Attachment I. Selected samples were submitted to Environmental Lab of Texas using chain-of-custody protocols for CoC analyses. Samples collected and analyzed from boreholes BH1 and BH3 did not exhibit impacts above the method detection limits for any of the CoCs. TPH and BTEX in excess of the remedial goals were monitored down to 15'bgs in borehole BH2, adjacent to the leak origin. The vertical extent of impact is limited to 15'bgs with the horizontal extent of impact not extending beyond boreholes BH1 and BH3 approximately 10 feet on either side of borehole BH1 at the leak origin. The analytical reports and results summary are included in Attachment IV and illustrated below.

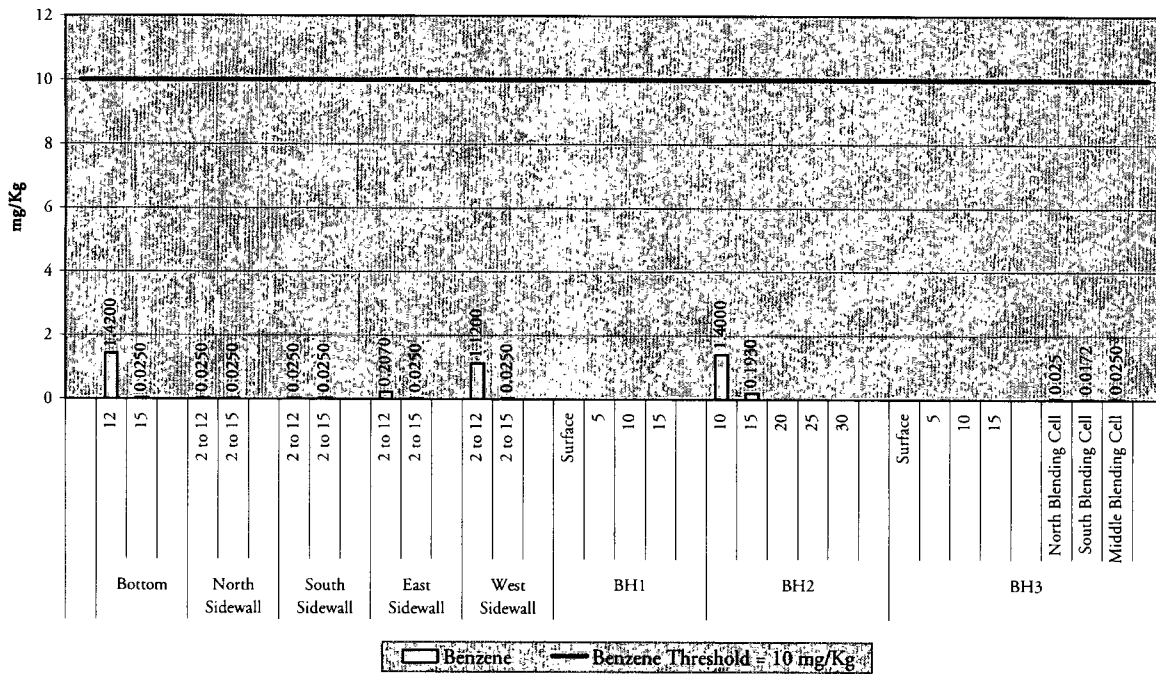
**Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
Total Petroleum Hydrocarbon 8015M Delineation**



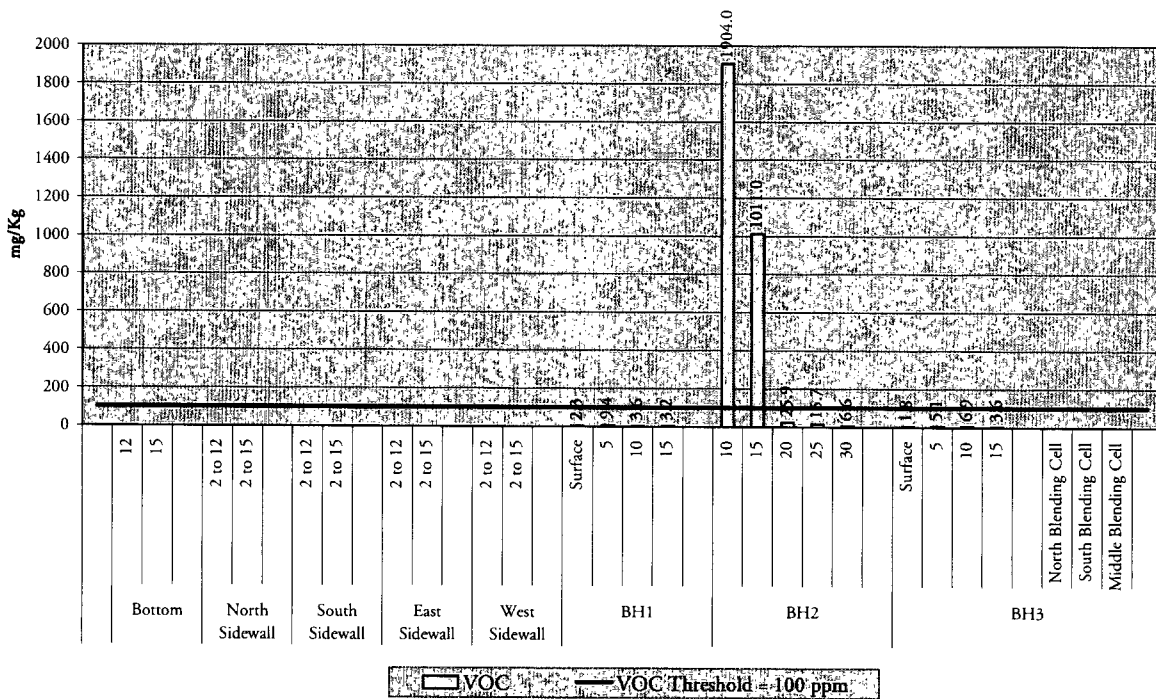
**Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
BTEX Delineation**



Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
Benzene Delineation



Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
VOC Delineation



## **5.0 GROUND WATER INVESTIGATION**

The soil investigation supports the conclusion that the groundwater at this site has not been impacted in excess of the WQCC standards.

## **6.0 SOIL REMEDIATION**

With NMOCD and BLM approval, the remediation proposal was implemented. The NMOCD also approved the request via NMOCD form C-138 to dispose of approximately 50 yd<sup>3</sup> of impacted soil in the Plains Lea Station Landfarm under chain-of custody protocol. The stockpiled soil was disposed of and the remaining impacted soil was excavated down to 15'bgs and blended with local soil to less than 100 ppm VOC. The analytical reports and results summary are included in Attachment IV and illustrated in Section 4.0.

### **6.1 EXCAVATION CONFIRMATION SAMPLING**

On October 13, 2004, 5-point composite samples were collected from the excavation sidewalls and bottom and submitted to the laboratory for analyses. The analytical results were less than the CoC remedial goals (refer to Attachment IV).

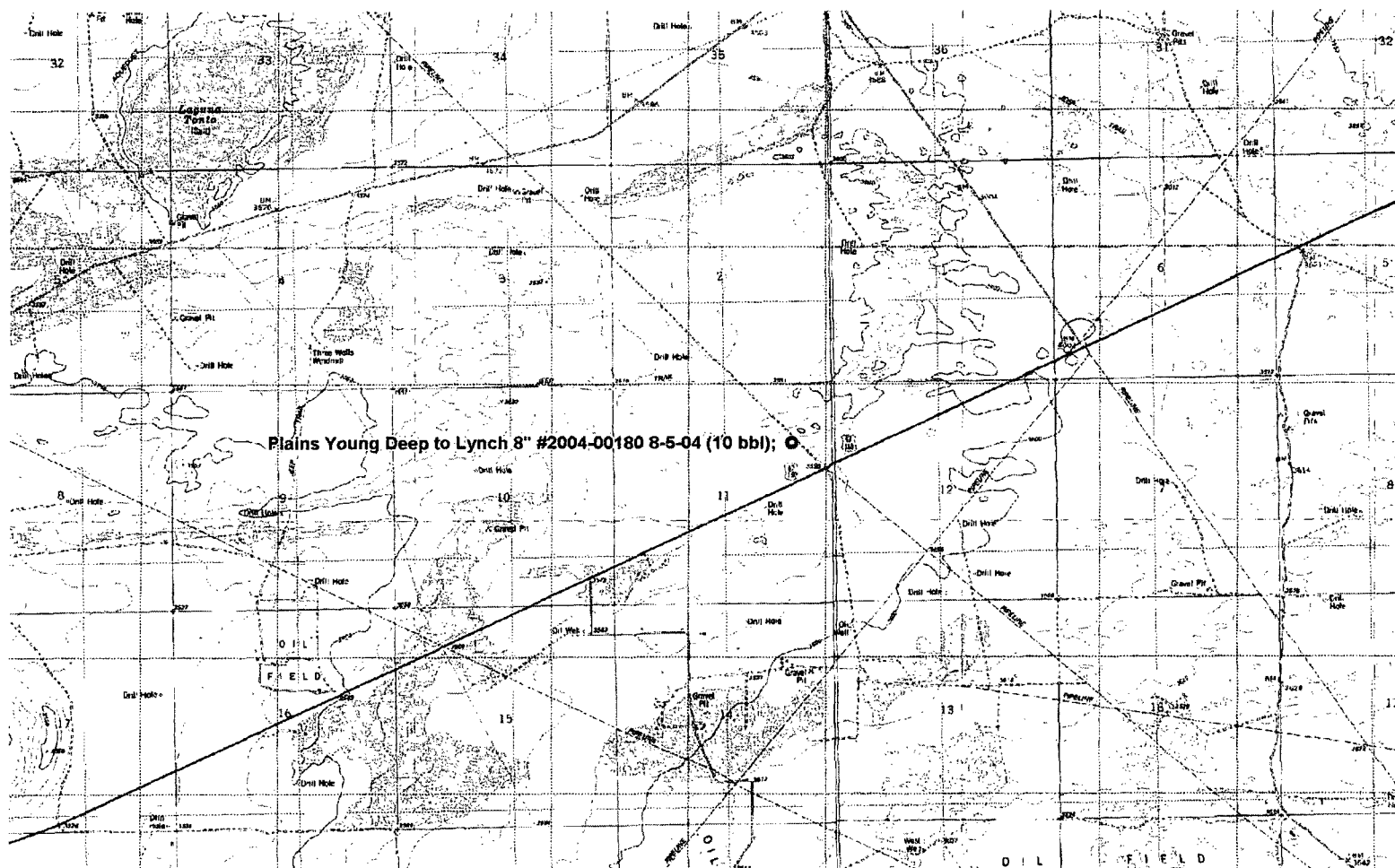
### **6.2 BLENDING CELL CONFIRMATION SAMPLING**

On October 18, 2004, 5-point composite samples were collected from the north, south, and middle sections of the blending cell and submitted to the laboratory for analyses. The analytical results were less than the CoC remedial goals for each section (refer to Attachment IV).

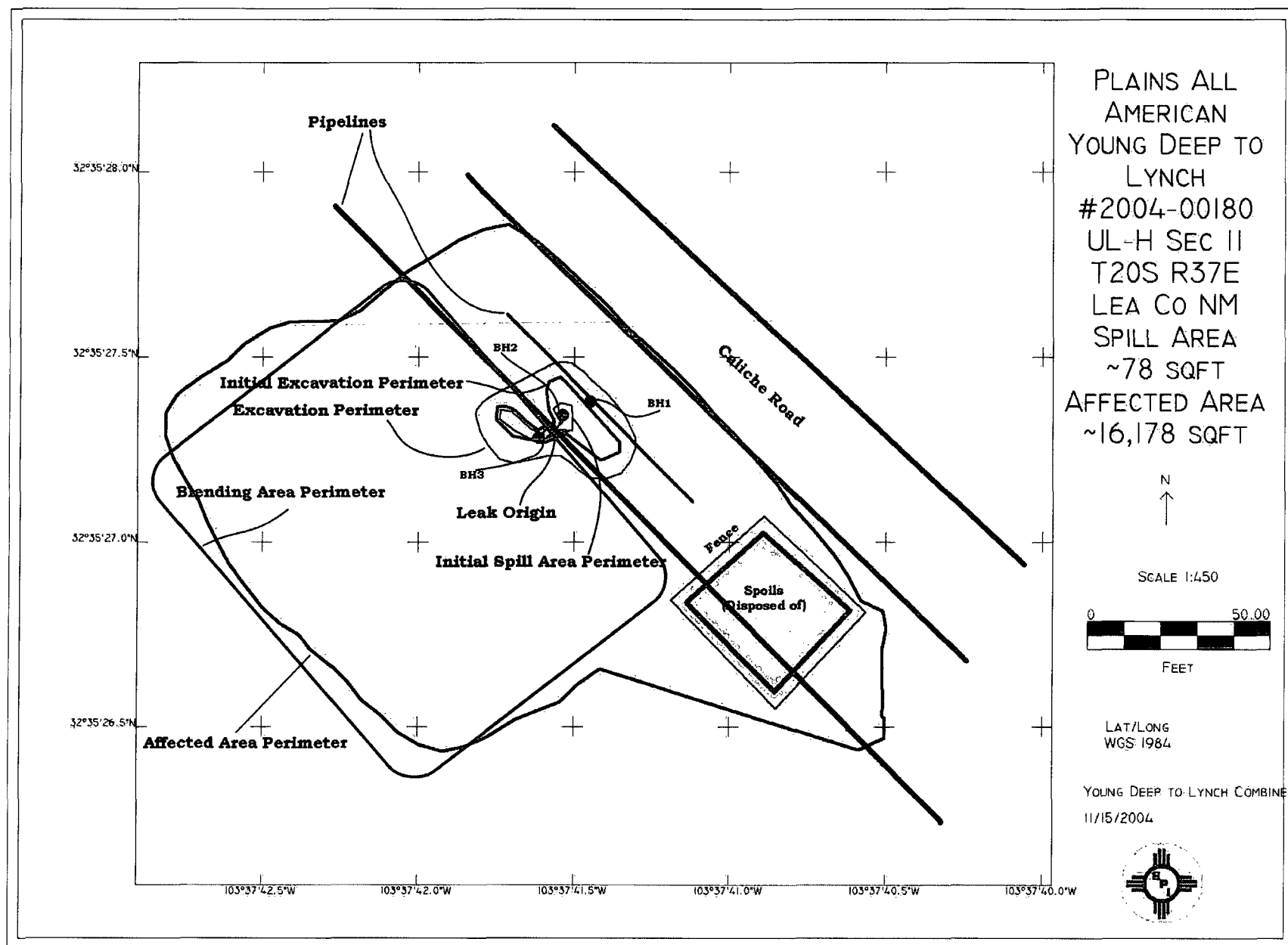
## **7.0 CONCLUSION**

Based on the information provided in this report, the NMOCD remedial goals have been achieved at this site and the surface area will be reseeded in the spring of 2005 with a seed blend acceptable to BLM. Plains All American Pipeline therefore requests that the NMOCD require "no further action" be required at this site.

## ATTACHMENT I: SITE MAPS



"Link Lusk 8 Mainline no1.it3"; Scale: 1" = 0.580Mi 933Mt 3,061Ft, 1 Mi = 1.725", 1 cm = 367Mt





## ATTACHMENT II: AREA GROUNDWATER INFORMATION

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

---

Township:	<input type="text" value="20S"/>	Range:	<input type="text" value="33E"/>	Sections:	<input type="text"/>
NAD27 X:	<input type="text"/>	Y:	<input type="text"/>	Zone:	<input type="text" value=""/>
Search Radius:	<input type="text"/>				
County:	<input type="text" value=""/>	Basin:	<input type="text" value=""/>	Number:	<input type="text"/>
Suffix:	<input type="text"/>				
Owner Name: (First)	<input type="text"/>	(Last)	<input type="text"/>	<input type="checkbox"/> Non-Domestic <input type="checkbox"/> Domestic	
<input checked="" type="radio"/> All					
<input type="button" value="Well / Surface Data Report"/>			<input type="button" value="Avg Depth to Water Report"/>		
<input type="button" value="Water Column Report"/>					
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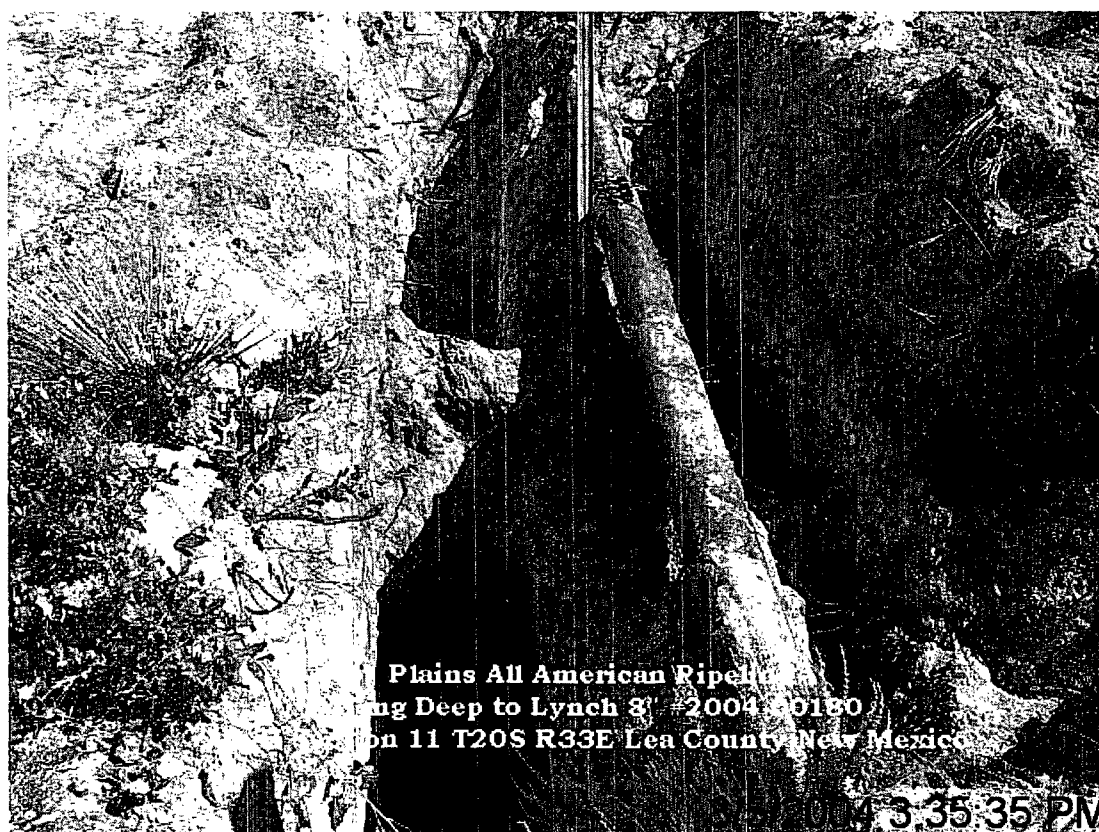
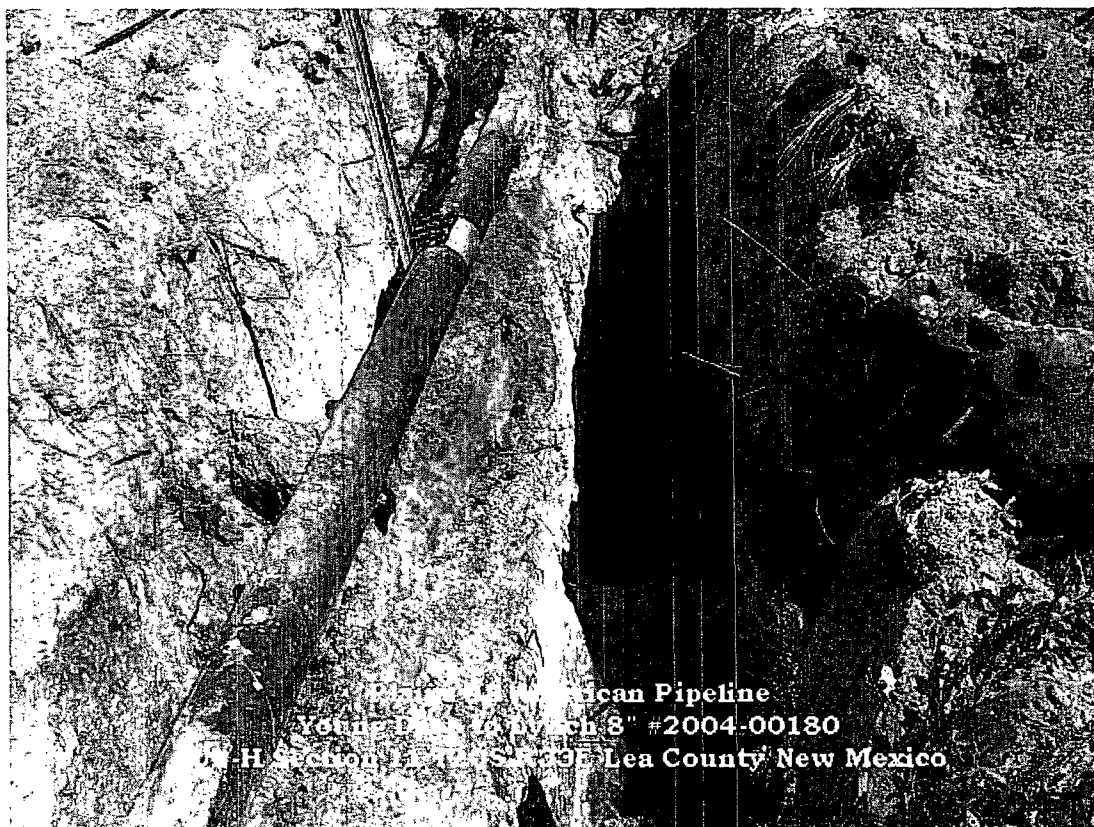
**AVERAGE DEPTH OF WATER REPORT 07/29/2004**

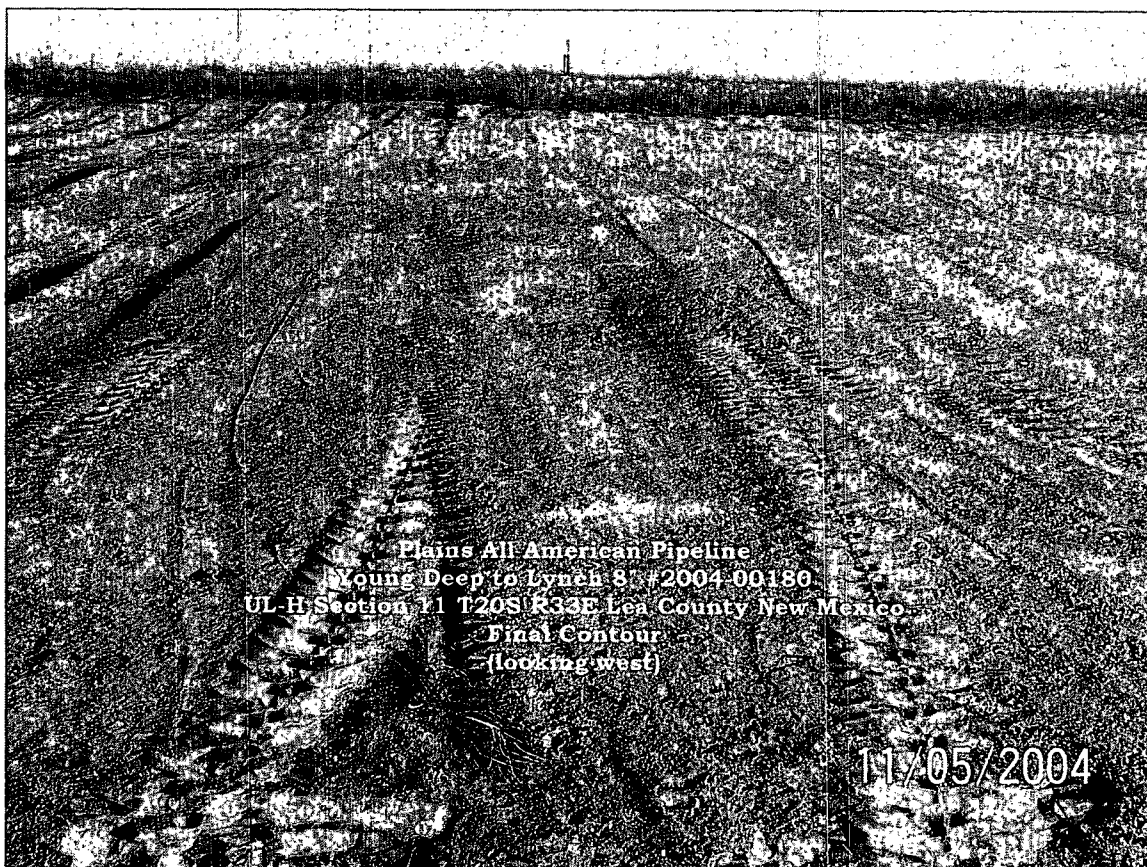
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	20S	33E	05				1	325	325	325

Record Count: 1

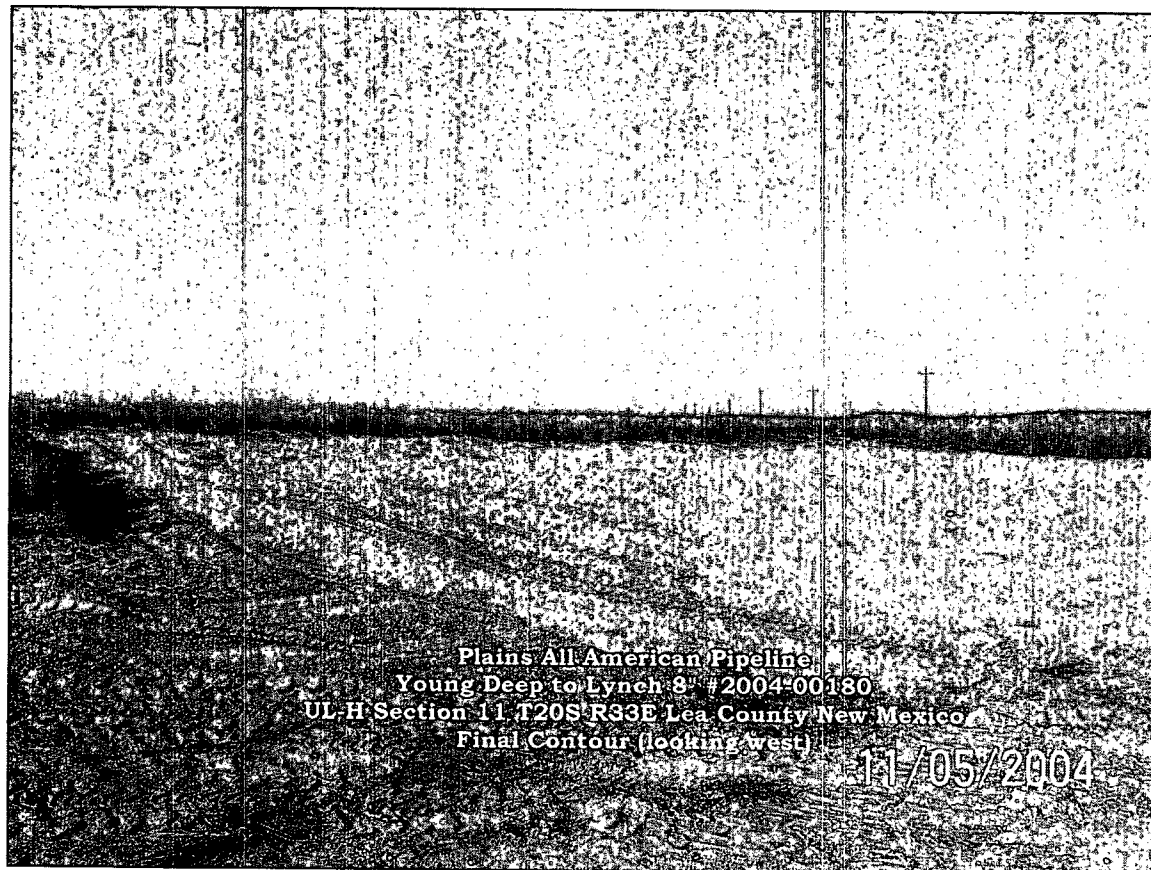
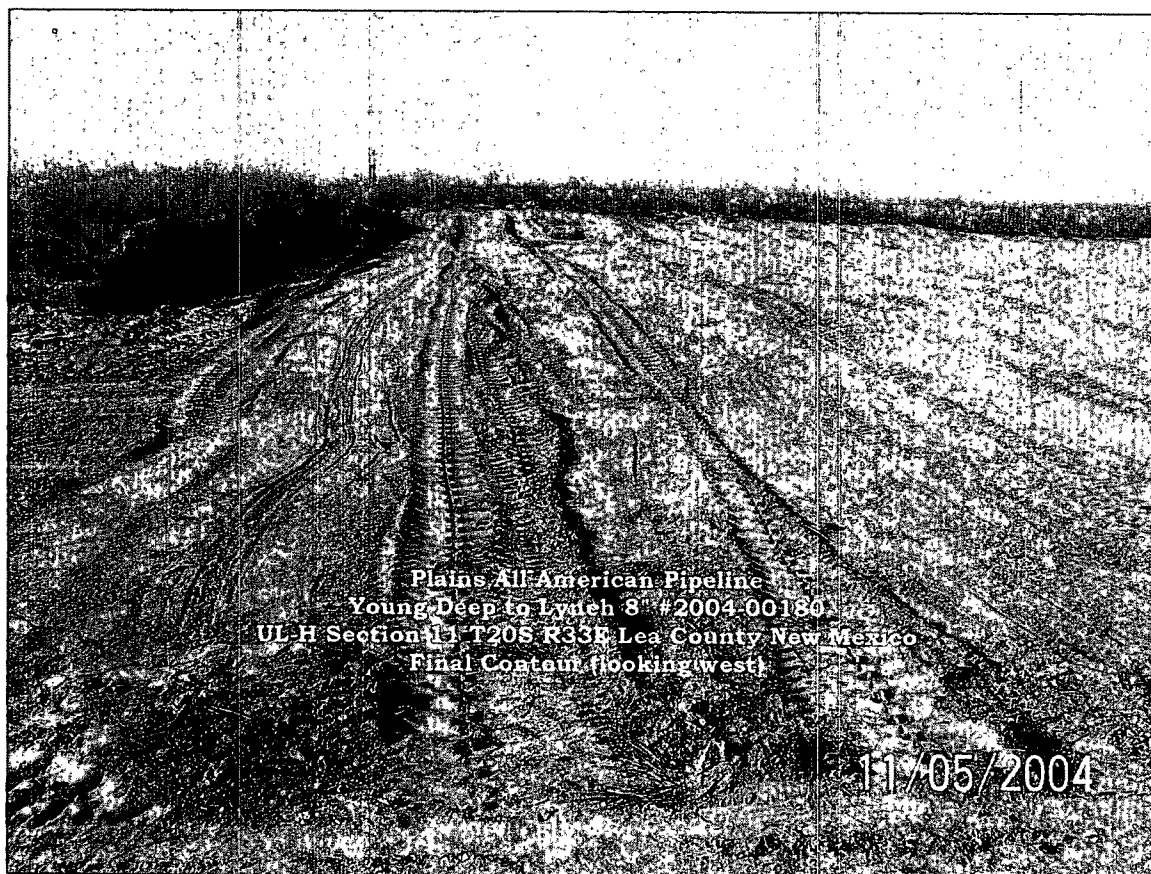
### ATTACHMENT III: PHOTOGRAPHS











## ATTACHMENT IV: ANALYTICAL REPORTS AND SUMMARY



**Plains All American Pipeline**  
**Young Deep to Lynch 8" #2004-00180**  
**Excavation and Soil Boring Delineation Data and Blending Cell Attenuation Data**

Sample Location	Description	Sampling Interval (FT. BGS <sup>1</sup> )	SAMPLE ID#	Date	Lithology	VOC Headspace ppm	GRO <sup>3</sup> mg/Kg	DRO <sup>4</sup> mg/Kg	TPH <sup>5</sup> mg/Kg	BTEX <sup>6</sup> mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	p/m Xylene mg/Kg	o-Xylene mg/Kg
Bottom	Composite	12	SLYD83104BHC	8/31/04	Sand	na	1290	10800	12090	54.6100	1.4200	13.3000	9.3500	21.2000	9.3400
	Composite	12	SPYD101304BHI	10/13/04	Sand	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Sidewall	Composite	2 to 12	SLYD83104NSW	8/31/04	Sand	na	11.2	90	101.2	ND	ND	ND	ND	ND	ND
	Composite	2 to 12	SPYD1304NSW	10/13/04	Sand	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
South Sidewall	Composite	2 to 12	SLYD83104SSW	8/31/04	Sand	na	14	70.4	84.4	ND	ND	ND	ND	ND	ND
	Composite	2 to 12	SPYD101304SSW	10/13/04	Sand	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
East Sidewall	Composite	2 to 12	SLYD83104ESW	8/31/04	Sand	na	2590	19700	22290	32.8170	0.2070	5.6200	6.4000	14.7000	5.8900
	Composite	2 to 12	SPYD101304ESW	10/13/04	Sand	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
West Sidewall	Composite	2 to 12	SLYD83104WSW	8/31/04	Sand	na	3070	35600	38670	37.4100	1.1200	8.7800	7.0400	14.4000	6.0700
	Composite	2 to 12	SPYD1304WSW	10/13/04	Sand	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH1	Discrete	Surface	YD8inch091504BH1-S	9/15/04	Sand	2.3	na	na	na	na	na	na	na	na	na
	Discrete	5	YD8inch091504BH1-5'	9/15/04	Sand	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Discrete	10	YD8inch091504BH1-10'	9/15/04	Sand	3.6	na	na	na	na	na	na	na	na	na
	Discrete	15	YD8inch091504BH1-15'	9/15/04	Sand	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH2	Discrete	10	YD8inch091504BH2-10'	9/15/04	Sand	1904.0	2610	6430	9040	103.4000	1.4000	23.5000	21.9000	40.6000	16.0000
	Discrete	15	YD8inch091504BH2-15'	9/15/04	Sand	1011.0	646	2740	3386	13.0630	0.1930	2.1900	2.7700	5.8300	2.0800
	Discrete	20	YD8inch091504BH2-20'	9/15/04	Sand	25.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Discrete	25	YD8inch091504BH2-25'	9/15/04	Sand	15.7	na	na	na	na	na	na	na	na	na
	Discrete	30	YD8inch091504BH2-30'	9/15/04	Sand	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH3	Discrete	Surface	YD8inch091504BH3-S	9/15/04	Sand	1.8	na	na	na	na	na	na	na	na	na
	Discrete	5	YD8inch091504BH3-5'	9/15/04	Sand	5.1	na	na	na	na	na	na	na	na	na
	Discrete	10	YD8inch091504BH3-10'	9/15/04	Sand	6.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Discrete	15	YD8inch091504BH3-15'	9/15/04	Sand	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Blending Cell	Composite	na	SPYD101804NBC	10/18/04	Sand	na	J[8.05]	49.7	49.7	0.0262	ND	J[0.0107]	J[0.0155]	0.0262	ND
South Blending Cell	Composite	na	SPYD101804SBC	10/18/04	Sand	na	83.0	341	424	0.2684	J[0.0172]	0.0464	0.0770	0.0820	0.0630
Middle Blending Cell	Composite	na	SPYD101804MBC	10/18/04	Sand	na	23.6	125	149	0.0290	ND	ND	J[0.0149]	0.0290	J[0.0179]
Method Detection Limit							10	10			0.0250	0.0250	0.0250	0.0250	0.0250
Remedial Goals						100.0			5000	50.0000	10.0000				

100 ppm Isobutylene calibration gas = 101 ppm

<sup>1</sup>bgs - below ground surface

<sup>2</sup>VOC - Volatile Organic Contaminants/Constituents

<sup>3</sup>GRO - Gasoline Range Organics C<sub>6</sub>-C<sub>12</sub>

<sup>4</sup>DRO - Diesel Range Organics C<sub>12</sub>-C<sub>35</sub>

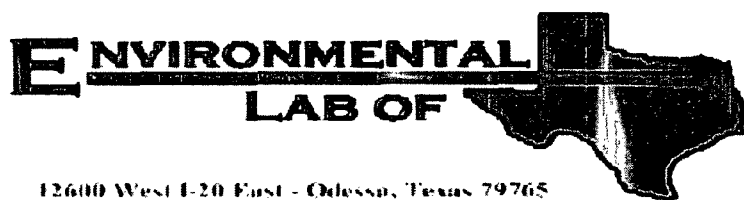
<sup>5</sup>TPH - Total Petroleum Hydrocarbon = GRO+DRO.

na - not analyzed

<sup>6</sup>BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

ND - not detected above the method detection limit.

J - Detected but below the Reporting Limit; therefore, result is an estimated concentration



## Analytical Report

**Prepared for:**

Jeff Dann

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Young Deep to Lynch

Project Number: 2004-00180

Location: None Given

Lab Order Number: 4102009

Report Date: 09/09/04

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
09/09/04 19:05

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SLYD83104BHC	4I02009-01	Soil	08/31/04 08:30	09/02/04 16:48
SLYD83104NSW	4I02009-02	Soil	08/31/04 08:40	09/02/04 16:48
SLYD83104SSW	4I02009-03	Soil	08/31/04 08:50	09/02/04 16:48
SLYD83104ESW	4I02009-04	Soil	08/31/04 09:00	09/02/04 16:48
SLYD83104WSW	4I02009-05	Soil	08/31/04 09:10	09/02/04 16:48

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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
 Reported:  
 09/09/04 19:05

### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104BHC (4102009-01) Soil</b>									
Benzene	1.42	0.100	mg/kg dry	100	E140710	09/06/04	09/06/04	EPA 8021B	
Toluene	13.3	0.100	"	"	"	"	"	"	
Ethylbenzene	9.35	0.100	"	"	"	"	"	"	
Xylene (p/m)	21.2	0.100	"	"	"	"	"	"	
Xylene (o)	9.34	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		214 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		115 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	1290	10.0	mg/kg dry	1	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	10800	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	12100	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		129 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		370 %	70-130	"	"	"	"	"	S-04
<b>SLYD83104NSW (4102009-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.1 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	11.2	10.0	mg/kg dry	1	E140811	09/02/04	09/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	90.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	101	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		124 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130	"	"	"	"	"	
<b>SLYD83104SSW (4102009-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.2 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	14.0	10.0	mg/kg dry	1	E140811	09/02/04	09/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	70.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	84.4	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
Reported:  
09/09/04 19:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104SSW (4102009-03) Soil</b>									
Surrogate: 1-Chlorooctane		120 %	70-130		E140811	09/02/04	09/09/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
<b>SLYD83104ESW (4102009-04) Soil</b>									
Benzene	0.207	0.100	mg/kg dry	100	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	5.62	0.100	"	"	"	"	"	"	
Ethylbenzene	6.40	0.100	"	"	"	"	"	"	
Xylene (p/m)	14.7	0.100	"	"	"	"	"	"	
Xylene (o)	5.89	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		121 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		99.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	2590	50.0	mg/kg dry	5	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	19700	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	22300	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		35.8 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		31.2 %	70-130		"	"	"	"	S-06
<b>SLYD83104WSW (4102009-05) Soil</b>									
Benzene	1.12	0.200	mg/kg dry	200	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	8.78	0.200	"	"	"	"	"	"	
Ethylbenzene	7.04	0.200	"	"	"	"	"	"	
Xylene (p/m)	14.4	0.200	"	"	"	"	"	"	
Xylene (o)	6.07	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		135 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		95.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	3070	50.0	mg/kg dry	5	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	35600	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	38700	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		44.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		30.0 %	70-130		"	"	"	"	S-06

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476	Project: Young Deep to Lynch Project Number: 2004-00180 Project Manager: Jeff Dann	Fax: (432) 687-4914 Reported: 09/09/04 19:05
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**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104BHC (4I02009-01) Soil</b>									
% Solids	91.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104NSW (4I02009-02) Soil</b>									
% Solids	90.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104SSW (4I02009-03) Soil</b>									
% Solids	89.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104ESW (4I02009-04) Soil</b>									
% Solids	96.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104WSW (4I02009-05) Soil</b>									
% Solids	97.0		%	1	E140711	09/03/04	09/03/04	% calculation	

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
Reported:  
09/09/04 19:05

**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 EI40710 - EPA 5030C (GC)</b>										
<b>Blank (EI40710-BLK1)</b>										
Prepared & Analyzed: 09/06/04										
Benzene	ND	0.0250	ug/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	81.9		ug/kg	100		81.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.8		"	100		80.8	80-120			
<b>LCS (EI40710-BS1)</b>										
Prepared & Analyzed: 09/06/04										
Benzene	111		ug/kg	100		111	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	112		"	100		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	86.3		"	100		86.3	80-120			
Surrogate: 4-Bromofluorobenzene	91.5		"	100		91.5	80-120			
<b>Calibration Check (EI40710-CCV1)</b>										
Prepared: 09/06/04 Analyzed: 09/07/04										
Benzene	106		ug/kg	100		106	80-120			
Toluene	98.4		"	100		98.4	80-120			
Ethylbenzene	93.0		"	100		93.0	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	102		"	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.6		"	100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	84.4		"	100		84.4	80-120			
<b>Matrix Spike (EI40710-MS1)</b>										
Source: 4103007-05 Prepared: 09/06/04 Analyzed: 09/07/04										
Benzene	105		ug/kg	100	ND	105	80-120			
Toluene	99.8		"	100	ND	99.8	80-120			
Ethylbenzene	97.9		"	100	ND	97.9	80-120			
Xylene (p/m)	215		"	200	ND	108	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	89.7		"	100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	90.3		"	100		90.3	80-120			

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

 Project: Young Deep to Lynch  
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 Fax (432) 687-4914  
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 09/09/04 19:05

### 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 EI40710 - EPA 5030C (GC)**

<b>Matrix Spike Dup (EI40710-MSD1)</b>		<b>Source: 4103007-05</b>		<b>Prepared: 09/06/04 Analyzed: 09/07/04</b>						
Benzene	108		ug/kg	100	ND	108	80-120	2.82	20	
Toluene	102		"	100	ND	102	80-120	2.18	20	
Ethylbenzene	99.4		"	100	ND	99.4	80-120	1.52	20	
Xylene (p/m)	218		"	200	ND	109	80-120	0.922	20	
Xylene (o)	109		"	100	ND	109	80-120	0.922	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	88.8		"	100		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	90.1		"	100		90.1	80-120			

**Batch EI40801 - Solvent Extraction (GC)**

<b>Blank (EI40801-BLK1)</b>				<b>Prepared: 08/30/04 Analyzed: 09/07/04</b>						
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	61.4		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			

<b>LCS (EI40801-BS1)</b>				<b>Prepared: 08/30/04 Analyzed: 09/07/04</b>						
Gasoline Range Organics C6-C12	569	10.0	mg/kg wet	500		114	75-125			
Diesel Range Organics >C12-C35	590	10.0	"	500		118	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	63.9		"	50.0		128	70-130			

<b>LCS Dup (EI40801-BSD1)</b>				<b>Prepared: 08/30/04 Analyzed: 09/07/04</b>						
Gasoline Range Organics C6-C12	558	10.0	mg/kg wet	500		112	75-125	1.95	20	
Diesel Range Organics >C12-C35	580	10.0	"	500		116	75-125	1.71	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1000		114	75-125	1.74	20	
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	56.8		"	50.0		114	70-130			

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 1301 S. County Road 1150  
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 09/09/04 19:05

### 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 EI40801 - Solvent Extraction (GC)**
**Calibration Check (EI40801-CCV1)**

Prepared: 08/30/04 Analyzed: 09/07/04

Gasoline Range Organics C6-C12	414		mg/kg	500		82.8	80-120			
Diesel Range Organics >C12-C35	521		"	500		104	80-120			
Total Hydrocarbon C6-C35	935		"	1000		93.5	80-120			
Surrogate: 1-Chlorooctane	35.6		"	50.0		71.2	70-130			
Surrogate: 1-Chlorooctadecane	35.5		"	50.0		71.0	70-130			

**Batch EI40811 - Solvent Extraction (GC)**
**Blank (EI40811-BLK1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.2	70-130			
Surrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			

**LCS (EI40811-BS1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	556	10.0	"	500		111	75-125			
Total Hydrocarbon C6-C35	996	10.0	"	1000		99.6	75-125			
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.4	70-130			
Surrogate: 1-Chlorooctadecane	50.1		"	50.0		100	70-130			

**Calibration Check (EI40811-CCV1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	422		mg/kg	500		84.4	80-120			
Diesel Range Organics >C12-C35	538		"	500		108	80-120			
Total Hydrocarbon C6-C35	960		"	1000		96.0	80-120			
Surrogate: 1-Chlorooctane	53.2		"	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	59.9		"	50.0		120	70-130			

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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
 Reported:  
 09/09/04 19:05

### 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 EI40811 - Solvent Extraction (GC)**
**Matrix Spike (EI40811-MS1)**

Source: 4102001-07

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	549	ND	94.4	75-125			
Diesel Range Organics >C12-C35	641	10.0	"	549	ND	117	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1100	ND	105	75-125			
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			

**Matrix Spike Dup (EI40811-MSD1)**

Source: 4102001-07

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	517	10.0	mg/kg dry	549	ND	94.2	75-125	0.193	20	
Diesel Range Organics >C12-C35	611	10.0	"	549	ND	111	75-125	4.79	20	
Total Hydrocarbon C6-C35	1130	10.0	"	1100	ND	103	75-125	2.62	20	
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	64.8		"	50.0		130	70-130			

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

Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
 09/09/04 19:05

**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 Limit	Notes
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**Batch EI40711 - General Preparation (Prep)**

**Blank (EI40711-BLK1)**

Prepared & Analyzed: 09/02/04

% Solids

100

%

**Duplicate (EI40711-DUP1)**

Source: 4H31009-01

Prepared & Analyzed: 09/02/04

% Solids

93.0

%

94.0

1.07

20

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
Reported:  
09/09/04 19:05

#### Notes and Definitions

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

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:

*Roland K. Tuttle*

Date:

9/9/04

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

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

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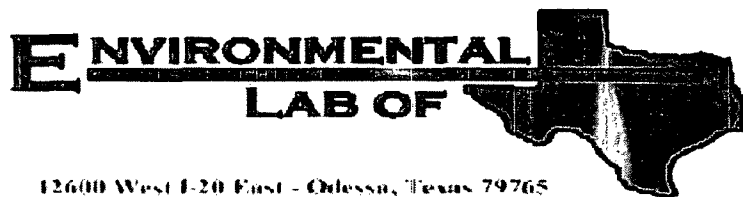
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12600 West F-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Jeff Dann

Link Energy Pipeline

P.O. Box 1660

Midland, TX 79702

Project: Young Deep to Lynch

Project Number: 2004-00181

Location: None Given

Lab Order Number: 4J14025

Report Date: 10/19/04

Link Energy Pipeline  
P.O. Box 1660  
Midland TX, 79702

Project: Young Deep to Lynch  
Project Number: 2004-00181  
Project Manager: Jeff Dann

Fax: (432) 682-9719  
**Reported:**  
10/19/04 10:06

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SPYD101304NSW	4J14025-01	Soil	10/13/04 14:15	10/14/04 14:45
SPYD101304ESW	4J14025-02	Soil	10/13/04 14:25	10/14/04 14:45
SPYD101304SSW	4J14025-03	Soil	10/13/04 14:35	10/14/04 14:45
SPYD101304WSW	4J14025-04	Soil	10/13/04 14:45	10/14/04 14:45
SPYD101304BH	4J14025-05	Soil	10/13/04 14:55	10/14/04 14:45

Link Energy Pipeline  
P.O. Box 1660  
Midland TX, 79702

Project: Young Deep to Lynch  
Project Number: 2004-00181  
Project Manager: Jeff Dann

Fax (432) 682-9719  
  
Reported:  
10/19/04 10:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101304NSW (4J14025-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ41805	10/17/04	10/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/15/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.4 %	70-130		"	"	"	"	
<b>SPYD101304ESW (4J14025-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ41805	10/17/04	10/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/15/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.2 %	70-130		"	"	"	"	
<b>SPYD101304SSW (4J14025-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ41805	10/17/04	10/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/15/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Link Energy Pipeline  
 P.O. Box 1660  
 Midland TX, 79702

 Project: Young Deep to Lynch  
 Project Number: 2004-00181  
 Project Manager: Jeff Dann

 Fax (432) 682-9719  
 Reported:  
 10/19/04 10:06

### Organics by GC

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101304SSW (4J14025-03) Soil</b>									
Surrogate: 1-Chlorooctane		85.0 %	70-130		EJ41416	10/15/04	10/15/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		89.4 %	70-130		"	"	"	"	
<b>SPYD101304WSW (4J14025-04) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ41805	10/17/04	10/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/15/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	
<b>SPYD101304BH (4J14025-05) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ41805	10/17/04	10/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/15/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.0 %	70-130		"	"	"	"	

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Link Energy Pipeline  
 P.O. Box 1660  
 Midland TX, 79702

 Project: Young Deep to Lynch  
 Project Number: 2004-00181  
 Project Manager: Jeff Dann

 Fax: (432) 682-9719  
 Reported:  
 10/19/04 10:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101304NSW (4J14025-01) Soil</b>									
% Moisture	9.0		%	1	EJ41811	10/15/04	10/18/04	% calculation	
<b>SPYD101304ESW (4J14025-02) Soil</b>									
% Moisture	11.0		%	1	EJ41811	10/15/04	10/18/04	% calculation	
<b>SPYD101304SSW (4J14025-03) Soil</b>									
% Moisture	10.0		%	1	EJ41811	10/15/04	10/18/04	% calculation	
<b>SPYD101304WSW (4J14025-04) Soil</b>									
% Moisture	39.0		%	1	EJ41811	10/15/04	10/18/04	% calculation	
<b>SPYD101304BH (4J14025-05) Soil</b>									
% Moisture	15.0		%	1	EJ41811	10/15/04	10/18/04	% calculation	

Environmental Lab of Texas

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 Midland TX, 79702

 Project: Young Deep to Lynch  
 Project Number: 2004-00181  
 Project Manager: Jeff Dann

 Fax: (432) 682-9719  
 Reported:  
 10/19/04 10:06

### 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 EJ41416 - Solvent Extraction (GC)</b>									
<b>Blank (EJ41416-BLK1)</b>									
				Prepared: 10/14/04 Analyzed: 10/15/04					
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	35.7		mg/kg	50.0		71.4	70-130		
Surrogate: 1-Chlorooctadecane	39.8		"	50.0		79.6	70-130		
<b>LCS (EJ41416-BS1)</b>									
				Prepared: 10/14/04 Analyzed: 10/15/04					
Gasoline Range Organics C6-C12	450	10.0	mg/kg wet	500		90.0	75-125		
Diesel Range Organics >C12-C35	51.3	10.0	"	500		103	75-125		
Total Hydrocarbon C6-C35	963	10.0	"	1000		96.3	75-125		
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.4	70-130		
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130		
<b>Calibration Check (EJ41416-CCV1)</b>									
				Prepared: 10/14/04 Analyzed: 10/15/04					
Gasoline Range Organics C6-C12	502		mg/kg	500		100	80-120		
Diesel Range Organics >C12-C35	574		"	500		115	80-120		
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120		
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130		
Surrogate: 1-Chlorooctadecane	60.1		"	50.0		120	70-130		
<b>Matrix Spike (EJ41416-MS1)</b>									
				Source: 4J14001-01 Prepared: 10/14/04 Analyzed: 10/15/04					
Gasoline Range Organics C6-C12	556	10.0	mg/kg dry	575	ND	96.7	75-125		
Diesel Range Organics >C12-C35	621	10.0	"	575	ND	108	75-125		
Total Hydrocarbon C6-C35	1180	10.0	"	1150	ND	103	75-125		
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	70-130		
Surrogate: 1-Chlorooctadecane	48.2		"	50.0		96.4	70-130		
<b>Matrix Spike Dup (EJ41416-MSD1)</b>									
				Source: 4J14001-01 Prepared: 10/14/04 Analyzed: 10/15/04					
Gasoline Range Organics C6-C12	530	10.0	mg/kg dry	575	ND	92.2	75-125	4.79	20
Diesel Range Organics >C12-C35	564	10.0	"	575	ND	98.1	75-125	9.62	20
Total Hydrocarbon C6-C35	1090	10.0	"	1150	ND	94.8	75-125	7.93	20
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	70-130		
Surrogate: 1-Chlorooctadecane	50.0		"	50.0		100	70-130		

Environmental Lab of Texas

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 P.O. Box 1660  
 Midland TX, 79702

 Project: Young Deep to Lynch  
 Project Number: 2004-00181  
 Project Manager: Jeff Dann

 Fax: (432) 682-9719  
 Reported:  
 10/19/04 10:06

### Organics by GC - Quality Control

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ41805 - EPA 5030C (GC)**
**Blank (EJ41805-BLK1)**

Prepared &amp; Analyzed: 10/17/04

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	82.2		ug/kg	100		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	81.8		"	100		81.8	80-120			

**LCS (EJ41805-BS1)**

Prepared &amp; Analyzed: 10/17/04

Benzene	90.5		ug/kg	100		90.5	80-120			
Toluene	87.9		"	100		87.9	80-120			
Ethylbenzene	80.3		"	100		80.3	80-120			
Xylene (p/m)	177		"	200		88.5	80-120			
Xylene (o)	81.0		"	100		81.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	105		"	100		105	80-120			

**Calibration Check (EJ41805-CCV1)**

Prepared: 10/17/04 Analyzed: 10/18/04

Benzene	92.7		ug/kg	100		92.7	80-120			
Toluene	89.5		"	100		89.5	80-120			
Ethylbenzene	82.8		"	100		82.8	80-120			
Xylene (p/m)	177		"	200		88.5	80-120			
Xylene (o)	85.2		"	100		85.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	109		"	100		109	80-120			

**Matrix Spike (EJ41805-MS1)**

Source: 4J14026-06

Prepared &amp; Analyzed: 10/17/04

Benzene	90.9		ug/kg	100	ND	90.9	80-120			
Toluene	89.3		"	100	ND	89.3	80-120			
Ethylbenzene	84.9		"	100	ND	84.9	80-120			
Xylene (p/m)	183		"	200	ND	91.5	80-120			
Xylene (o)	87.4		"	100	ND	87.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.2		"	100		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Link Energy Pipeline P.O. Box 1660 Midland TX, 79702	Project: Young Deep to Lynch Project Number: 2004-00181 Project Manager: Jeff Dann	Fax (432) 682-9719  <b>Reported:</b> 10/19/04 10:06
--	--	--

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

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

**Batch EJ41805 - EPA 5030C (GC)**

**Matrix Spike Dup (EJ41805-MSD1)**

**Source: 4J14026-06**

**Prepared & Analyzed: 10/17/04**

Benzene	92.7		ug/kg	100	ND	92.7	80-120	1.96	20	
Toluene	89.5		"	100	ND	89.5	80-120	0.224	20	
Ethylbenzene	84.7		"	100	ND	84.7	80-120	0.236	20	
Xylene (p/m)	191		"	200	ND	95.5	80-120	4.28	20	
Xylene (o)	85.3		"	100	ND	85.3	80-120	2.43	20	
Surrogate: <i>a,a</i> -Trifluorotoluene	97.8		"	100		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Link Energy Pipeline	Project: Young Deep to Lynch	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2004-00181	<b>Reported:</b>
Midland TX, 79702	Project Manager: Jeff Dann	10/19/04 10:06

**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 Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	--------------	-------

**Batch EJ41811 - % Solids**

**Blank (EJ41811-BLK1)**

Prepared: 10/15/04 Analyzed: 10/18/04

% Moisture	0.0	%
------------	-----	---

**Duplicate (EJ41811-DUP1)**

**Source: 4J14025-01**

Prepared: 10/15/04 Analyzed: 10/18/04

% Moisture	9.0	%	9.0	0.00	20
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Environmental Lab of Texas

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Link Energy Pipeline  
P.O. Box 1660  
Midland TX. 79702

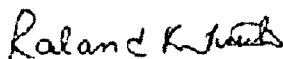
Project: Young Deep to Lynch  
Project Number: 2004-00181  
Project Manager: Jeff Dann

Fax: (432) 682-9719  
**Reported:**  
10/19/04 10:06

#### 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:

10/19/04

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

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

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12600 West I-20 East Phone: 915-563-1800  
Odessa Texas 79763 Fax: 915-563-1713

12600 West I-20 East  
Odessa Texas 79763

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

Project Name: Young Deep To Lynch

Project #: 2004-00181

Project Loc:

PO#:

Telephone No: \_\_\_\_\_

Sampler Signature: Roger Boone

[illegible]

**FAX RESULTS TO PAT McCASLAND ASAP**

Temperature Upon Request  
Laboratory Comments:

Time

Time

Rec 1.0°C

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

Client: Link Energy

Date/Time: 10-14-04

Order #: 4 514025

Initials: NT

### Sample Receipt Checklist

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

Other observations:

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### Variance Documentation:

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

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Corrective Action Taken:

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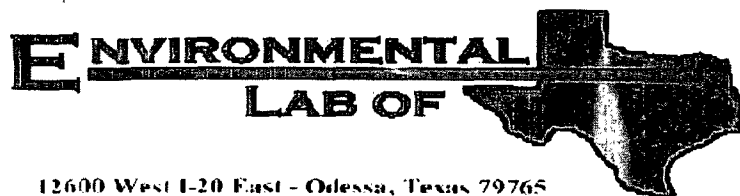


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12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Jimmy Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Young Deep to Lynch 8 inch

Project Number: 2004-00180

Location: UL-H Section 11 T20S R33E

Lab Order Number: 4117009

Report Date: 09/22/04

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

Project: Young Deep to Lynch 8 inch  
Project Number: 2004-00180  
Project Manager: Jimmy Bryant

Fax: (432) 687-4914  
Reported:  
09/22/04 16:43

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
YDL8inch091504BH2-10'	4117009-01	Soil	09/15/04 10:35	09/17/04 13:07
YDL8inch091504BH2-15'	4117009-02	Soil	09/15/04 11:15	09/17/04 13:07
YDL8inch091504BH2-20'	4117009-03	Soil	09/15/04 11:39	09/17/04 13:07
YDL8inch091504BH2-30'	4117009-04	Soil	09/15/04 13:35	09/17/04 13:07
YDL8inch091604BH-5'	4117009-05	Soil	09/16/04 08:33	09/17/04 13:07
YDL8inch091604BH-15'	4117009-06	Soil	09/16/04 09:32	09/17/04 13:07
YDL8inch091604BH3-10'	4117009-07	Soil	09/16/04 11:26	09/17/04 13:07
YDL8inch091604BH3-15'	4117009-08	Soil	09/16/04 11:53	09/17/04 13:07

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

 Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

### Organics by GC

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>YDL8inch091504BH2-10' (4117009-01) Soil</b>									
Benzene	1.40	0.100	mg/kg dry	100	E142202	09/20/04	09/21/04	EPA 8021B	
Toluene	23.5	0.100	"	"	"	"	"	"	
Ethylbenzene	21.9	0.100	"	"	"	"	"	"	
Xylene (p/m)	40.6	0.100	"	"	"	"	"	"	
Xylene (o)	16.0	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		157 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		119 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	2610	10.0	mg/kg dry	1	E141719	09/17/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	6430	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	9040	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		125 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-130	"	"	"	"	"	
<b>YDL8inch091504BH2-15' (4117009-02) Soil</b>									
Benzene	0.193	0.0250	mg/kg dry	25	E142202	09/20/04	09/21/04	EPA 8021B	
Toluene	2.19	0.0250	"	"	"	"	"	"	
Ethylbenzene	2.77	0.0250	"	"	"	"	"	"	
Xylene (p/m)	5.83	0.0250	"	"	"	"	"	"	
Xylene (o)	2.08	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		143 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		111 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	646	10.0	mg/kg dry	1	E141719	09/17/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	2740	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	3380	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		116 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		170 %	70-130	"	"	"	"	"	S-04
<b>YDL8inch091504BH2-20' (4117009-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.6 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.7 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E141719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

 Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>YDL8inch091504BH2-20' (4117009-03) Soil</b>									
Surrogate: 1-Chlorooctane		100 %	70-130	EI41719	09/17/04	09/20/04	EPA 8015A1		
Surrogate: 1-Chlorooctadecane		123 %	70-130	"	"	"	"		
<b>YDL8inch091504BH2-30' (4117009-04) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.0 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130	"	"	"	"	"	
<b>YDL8inch091604BH-5' (4117009-05) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI42206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.4 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-130	"	"	"	"	"	

Environmental Lab of Texas

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

 Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

### Organics by GC

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>YDL8inch091604BH-15' (4117009-06) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.6 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E141719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		130 %	70-130	"	"	"	"	"	
<b>YDL8inch091604BH3-10' (4117009-07) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.1 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.3 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E141719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130	"	"	"	"	"	
<b>YDL8inch091604BH13-15' (4117009-08) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E142206	09/21/04	09/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.9 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E141719	09/17/04	09/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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

Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>YDL8inch091604BH3-15' (4117009-08) Soil</b>									
Surrogate: 1-Chlorooctane		97.8 %	70-130		E141719	09 17 04	09 20 04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

Fax: (432) 687-4914

 Reported:  
 09/22/04 16:43

### General Chemistry Parameters by EPA / Standard Methods

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>YDL8inch091504BH2-10' (4117009-01) Soil</b>									
% Solids	96.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091504BH2-15' (4117009-02) Soil</b>									
% Solids	95.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091504BH2-20' (4117009-03) Soil</b>									
% Solids	87.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091504BH2-30' (4117009-04) Soil</b>									
% Solids	96.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091604BH1-5' (4117009-05) Soil</b>									
% Solids	82.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091604BH1-15' (4117009-06) Soil</b>									
% Solids	96.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091604BH3-10' (4117009-07) Soil</b>									
% Solids	95.0		%	1	E142102	09/17/04	09/17/04	% calculation	
<b>YDL8inch091604BH3-15' (4117009-08) Soil</b>									
% Solids	94.0		%	1	E142102	09/17/04	09/17/04	% calculation	

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

Fax: (432) 687-4914

 Reported:  
 09/22/04 16:43

**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 EI41719 - Solvent Extraction (GC)**
**Blank (EI41719-BLK1)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	70-130			
Surrogate: 1-Chlorooctadecane	41.8		"	50.0		83.6	70-130			

**Blank (EI41719-BLK2)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	70-130			
Surrogate: 1-Chlorooctadecane	36.3		"	50.0		72.6	70-130			

**LCS (EI41719-BS1)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	426	10.0	mg/kg wet	500		85.2	75-125			
Diesel Range Organics >C12-C35	498	10.0	"	500		99.6	75-125			
Total Hydrocarbon C6-C35	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	56.4		"	50.0		113	70-130			

**LCS (EI41719-BS2)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	415	10.0	mg/kg wet	500		83.0	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	920	10.0	"	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	44.3		"	50.0		88.6	70-130			

**Calibration Check (EI41719-CCV1)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	945		"	1000		94.5	80-120			
Surrogate: 1-Chlorooctane	52.0		"	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	47.9		"	50.0		95.8	70-130			

Environmental Lab of Texas

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

Fax: (432) 687-4914

 Reported:  
 09/22/04 16:43

### 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 EI41719 - Solvent Extraction (GC)**
**Calibration Check (EI41719-CCV2)**

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	427		mg/kg	500		85.4	80-120			
Diesel Range Organics >C12-C35	483		"	500		96.6	80-120			
Total Hydrocarbon C6-C35	910		"	1000		91.0	80-120			
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	47.0		"	50.0		94.0	70-130			

**Matrix Spike (EI41719-MS1)**

Source: 4116003-01

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	469	10.0	mg/kg dry	521	ND	90.0	75-125			
Diesel Range Organics >C12-C35	555	10.0	"	521	ND	107	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1040	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	52.5		"	50.0		105	70-130			

**Matrix Spike (EI41719-MS2)**

Source: 4117004-13

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	506	10.0	mg/kg dry	549	ND	92.2	75-125			
Diesel Range Organics >C12-C35	627	10.0	"	549	15.3	111	75-125			
Total Hydrocarbon C6-C35	1130	10.0	"	1100	15.3	101	75-125			
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	54.7		"	50.0		109	70-130			

**Matrix Spike Dup (EI41719-MSD1)**

Source: 4116003-01

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	478	10.0	mg/kg dry	521	ND	91.7	75-125	1.90	20	
Diesel Range Organics >C12-C35	577	10.0	"	521	ND	111	75-125	3.89	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1040	ND	102	75-125	3.85	20	
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	53.8		"	50.0		108	70-130			

**Matrix Spike Dup (EI41719-MSD2)**

Source: 4117004-13

Prepared: 09/17/04 Analyzed: 09/19/04

Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	549	ND	95.1	75-125	3.11	20	
Diesel Range Organics >C12-C35	630	10.0	"	549	15.3	112	75-125	0.477	20	
Total Hydrocarbon C6-C35	1150	10.0	"	1100	15.3	103	75-125	1.75	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	57.5		"	50.0		115	70-130			

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

Fax: (432) 687-4914

 Reported:  
 09/22/04 16:43

**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 EI42202 - EPA 5030C (GC)</b>										
<b>Blank (EI42202-BLK1)</b>				Prepared & Analyzed: 09/20/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	91.5		ug/kg	100		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	85.4		"	100		85.4	80-120			
<b>LCS (EI42202-BS1)</b>				Prepared & Analyzed: 09/20/04						
Benzene	98.8		ug/kg	100		98.8	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	228		"	200		114	80-120			
Xylene (o)	110		"	100		110	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	110		"	100		110	80-120			
Surrogate: 4-Bromofluorobenzene	105		"	100		105	80-120			
<b>Calibration Check (EI42202-CCV1)</b>				Prepared: 09/20/04 Analyzed: 09/21/04						
Benzene	104		ug/kg	100		104	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	100		"	100		100	80-120			
Xylene (p/m)	223		"	200		112	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			
<b>Matrix Spike (EI42202-MS1)</b>				Source: 4117003-01 Prepared: 09/20/04 Analyzed: 09/21/04						
Benzene	2550		ug/kg	2500	ND	102	80-120			
Toluene	2580		"	2500	26.6	102	80-120			
Ethylbenzene	2630		"	2500	ND	105	80-120			
Xylene (p/m)	5850		"	5000	49.2	116	80-120			
Xylene (o)	2830		"	2500	ND	113	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			

Environmental Lab of Texas

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

 Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

### 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 E142202 - EPA 5030C (GC)**
**Matrix Spike Dup (E142202-MSDI)**

Source: 4117003-01

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

Benzene	2450		ug/kg	2500	ND	98.0	80-120	4.00	20	
Toluene	2530		"	2500	26.6	100	80-120	1.98	20	
Ethylbenzene	2530		"	2500	ND	101	80-120	3.88	20	
Xylene (p/m)	5670		"	5000	49.2	112	80-120	3.51	20	
Xylene (o)	2700		"	2500	ND	108	80-120	4.52	20	
Surrogate: o,p,p'-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	100		"	100		100	80-120			

**Batch E142206 - EPA 5030C (GC)**
**Blank (E142206-BLK1)**

Prepared &amp; Analyzed: 09/21/04

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: o,p,p'-Trifluorotoluene	95.1		ug/kg	100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	88.0		"	100		88.0	80-120			

**LCS (E142206-BS1)**

Prepared &amp; Analyzed: 09/21/04

Benzene	97.6		ug/kg	100		97.6	80-120			
Toluene	100		"	100		100	80-120			
Ethylbenzene	97.7		"	100		97.7	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: o,p,p'-Trifluorotoluene	111		"	100		111	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			

Environmental Lab of Texas

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

Project: Young Deep to Lynch 8 inch  
Project Number: 2004-00180  
Project Manager: Jimmy Bryant

Fax: (432) 687-4914  
Reported:  
09/22/04 16:43

**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 EI42206 - EPA 5030C (GC)**

**Calibration Check (EI42206-CCV1)**

Prepared & Analyzed: 09/21/04

Benzene	108		ug/kg	100		108	80-120			
Toluene	107		"	100		107	80-120			
Ethylbenzene	94.1		"	100		94.1	80-120			
Xylene (p/m)	208		"	200		104	80-120			
Xylene (o)	99.5		"	100		99.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	85.5		"	100		85.5	80-120			

**Matrix Spike (EI42206-MS1)**

Source: 4117011-12

Prepared: 09/21/04 Analyzed: 09/22/04

Benzene	100		ug/kg	100	ND	100	80-120			
Toluene	103		"	100	ND	103	80-120			
Ethylbenzene	101		"	100	ND	101	80-120			
Xylene (p/m)	226		"	200	ND	113	80-120			
Xylene (o)	107		"	100	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	120		"	100		120	80-120			
Surrogate: 4-Bromofluorobenzene	96.9		"	100		96.9	80-120			

**Matrix Spike Dup (EI42206-MSD1)**

Source: 4117011-12

Prepared: 09/21/04 Analyzed: 09/22/04

Benzene	99.5		ug/kg	100	ND	99.5	80-120	0.501	20	
Toluene	100		"	100	ND	100	80-120	2.96	20	
Ethylbenzene	98.0		"	100	ND	98.0	80-120	3.02	20	
Xylene (p/m)	221		"	200	ND	110	80-120	2.69	20	
Xylene (o)	105		"	100	ND	105	80-120	1.89	20	
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	93.5		"	100		93.5	80-120			

Environmental Lab of Texas

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

 Project: Young Deep to Lynch 8 inch  
 Project Number: 2004-00180  
 Project Manager: Jimmy Bryant

 Fax: (432) 687-4914  
 Reported:  
 09/22/04 16:43

**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 E142102 - % Solids</b>										
<b>Blank (E142102-BLK1)</b>					Prepared & Analyzed: 09/17/04					
% Solids	100		%							
<b>Duplicate (E142102-DUP1)</b>					Prepared & Analyzed: 09/17/04					
% Solids	91.0		%		90.0			1.10	20	

Environmental Lab of Texas

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

Project: Young Deep to Lynch 8 inch  
Project Number: 2004-00180  
Project Manager: Jimmy Bryant

Fax: (432) 687-4914  
Reported:  
09/22/04 16:43

#### Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

9/22/04

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

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

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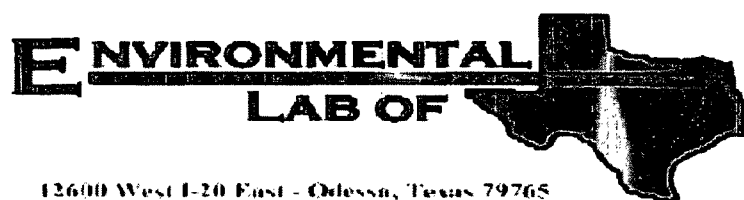
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## Analytical Report

**Prepared for:**

Jeff Dann

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Young Deep to Lynch

Project Number: 2004-00180

Location: None Given

Lab Order Number: 4J19005

Report Date: 10/26/04

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
10/26/04 09:39

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SPYD101804NBC	4J19005-01	Soil	10/18/04 14:00	10/19/04 11:30
SPYD101804SBC	4J19005-02	Soil	10/18/04 14:15	10/19/04 11:30
SPYD101804MBC	4J19005-03	Soil	10/18/04 14:30	10/19/04 11:30



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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

Fax: (432) 687-4914

 Reported:  
 10/26/04 09:39

### Organics by GC

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101804NBC (4J19005-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ42201	10/19/04	10/20/04	EPA 8021B	
Toluene	J [0.0107]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	J [0.0155]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0262	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.8 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	J [8.05]	10.0	mg/kg dry	1	EJ42013	10/20/04	10/22/04	EPA 8015M	J
Diesel Range Organics >C12-C35	49.7	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	49.7	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-130	"	"	"	"	"	
<b>SPYD101804SBC (4J19005-02) Soil</b>									
Benzene	J [0.0172]	0.0250	mg/kg dry	25	EJ42201	10/19/04	10/20/04	EPA 8021B	J
Toluene	0.0464	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0770	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0820	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0630	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.4 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	83.0	10.0	mg/kg dry	1	EJ42013	10/20/04	10/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	341	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	424	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-130	"	"	"	"	"	
<b>SPYD101804MBC (4J19005-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ42201	10/19/04	10/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0149]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0290	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0179]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		91.3 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	23.6	10.0	mg/kg dry	1	EJ42013	10/20/04	10/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	125	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	149	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
**Reported:**  
 10/26/04 09:39

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101804MBC (4J19005-03) Soil</b>									
Surrogate: 1-Chlorooctane		106 %	70-130		EJ42013	10/20/04	10/22/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		127 %	70-130		"	"	"	"	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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 Project: Young Deep to Lynch  
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 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
**Reported:**  
 10/26/04 09:39

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SPYD101804NBC (4J19005-01) Soil</b>									
% Moisture	12.0		%	1	EJ42001	10/20/04	10/20/04	% calculation	
<b>SPYD101804SBC (4J19005-02) Soil</b>									
% Moisture	6.0		%	1	EJ42001	10/20/04	10/21/04	% calculation	
<b>SPYD101804MBC (4J19005-03) Soil</b>									
% Moisture	7.0		%	1	EJ42001	10/20/04	10/21/04	% calculation	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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 1301 S. County Road 1150  
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 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
 Reported:  
 10/26/04 09:39

### 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 EJ42013 - Solvent Extraction (GC)</b>										
<b>Blank (EJ42013-BLK1)</b>										
				Prepared: 10/20/04 Analyzed: 10/22/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.1		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		73.0	70-130			
<b>Blank (EJ42013-BLK2)</b>										
				Prepared: 10/20/04 Analyzed: 10/22/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	38.1		mg/kg	50.0		76.2	70-130			
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
<b>LCS (EJ42013-BS1)</b>										
				Prepared: 10/20/04 Analyzed: 10/22/04						
Gasoline Range Organics C6-C12	456	10.0	mg/kg wet	500		91.2	75-125			
Diesel Range Organics >C12-C35	435	10.0	"	500		87.0	75-125			
Total Hydrocarbon C6-C35	851	10.0	"	1000		89.1	75-125			
Surrogate: 1-Chlorooctane	35.2		mg/kg	50.0		70.4	70-130			
Surrogate: 1-Chlorooctadecane	35.4		"	50.0		70.8	70-130			
<b>LCS (EJ42013-BS2)</b>										
				Prepared: 10/20/04 Analyzed: 10/22/04						
Gasoline Range Organics C6-C12	453	10.0	mg/kg wet	500		90.6	75-125			
Diesel Range Organics >C12-C35	459	10.0	"	500		91.8	75-125			
Total Hydrocarbon C6-C35	913	10.0	"	1000		91.3	75-125			
Surrogate: 1-Chlorooctane	41.2		mg/kg	50.0		82.4	70-130			
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130			
<b>Calibration Check (EJ42013-CCV1)</b>										
				Prepared: 10/20/04 Analyzed: 10/22/04						
Gasoline Range Organics C6-C12	513		mg/kg	500		103	80-120			
Diesel Range Organics >C12-C35	570		"	500		114	80-120			
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120			
Surrogate: 1-Chlorooctane	51.8		"	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	55.1		"	50.0		110	70-130			

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
Reported:  
10/26/04 09:39

**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 EJ42013 - Solvent Extraction (GC)</b>										
<b>Calibration Check (EJ42013-CCV2)</b>										
				Prepared: 10/20/04		Analyzed: 10/22/04				
Gasoline Range Organics C6-C12	44.6		mg/kg	500		89.2	80-120			
Diesel Range Organics >C12-C35	523		"	500		105	80-120			
Total Hydrocarbon C6-C35	969		"	1000		96.9	80-120			
Surrogate: 1-Chlorooctane	48.7		"	50.0		97.4	70-130			
Surrogate: 1-Chlorooctadecane	49.9		"	50.0		99.8	70-130			
<b>Matrix Spike (EJ42013-MS1)</b>										
				Source: 4J19001-03		Prepared: 10/20/04		Analyzed: 10/22/04		
Gasoline Range Organics C6-C12	648	10.0	mg/kg dry	568	ND	114	75-125			
Diesel Range Organics >C12-C35	661	10.0	"	568	ND	116	75-125			
Total Hydrocarbon C6-C35	1310	10.0	"	1140	ND	115	75-125			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	63.2		"	50.0		126	70-130			
<b>Matrix Spike (EJ42013-MS2)</b>										
				Source: 4J19016-01		Prepared: 10/20/04		Analyzed: 10/25/04		
Gasoline Range Organics C6-C12	480	10.0	mg/kg dry	510	ND	94.1	75-125			
Diesel Range Organics >C12-C35	534	10.0	"	510	ND	105	75-125			
Total Hydrocarbon C6-C35	1010	10.0	"	1020	ND	99.0	75-125			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	70-130			
Surrogate: 1-Chlorooctadecane	47.3		"	50.0		94.6	70-130			
<b>Matrix Spike Dup (EJ42013-MSD1)</b>										
				Source: 4J19001-03		Prepared: 10/20/04		Analyzed: 10/22/04		
Gasoline Range Organics C6-C12	631	10.0	mg/kg dry	568	ND	111	75-125	2.66	20	
Diesel Range Organics >C12-C35	653	10.0	"	568	ND	115	75-125	1.22	20	
Total Hydrocarbon C6-C35	1280	10.0	"	1140	ND	112	75-125	2.32	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	63.1		"	50.0		126	70-130			
<b>Matrix Spike Dup (EJ42013-MSD2)</b>										
				Source: 4J19016-01		Prepared: 10/20/04		Analyzed: 10/25/04		
Gasoline Range Organics C6-C12	489	10.0	mg/kg dry	510	ND	95.9	75-125	1.86	20	
Diesel Range Organics >C12-C35	558	10.0	"	510	ND	109	75-125	4.40	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1020	ND	103	75-125	3.88	20	
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	70-130			
Surrogate: 1-Chlorooctadecane	43.7		"	50.0		87.4	70-130			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax (432) 687-4914  
**Reported:**  
 10/26/04 09:39

**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 EJ42201 - EPA 5030C (GC)</b>										
<b>Blank (EJ42201-BLK1)</b>				Prepared: 10/19/04 Analyzed: 10/20/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	80.2		ug/kg	100		80.2	80-120			
Surrogate: 4-Bromofluorobenzene	93.0		"	100		93.0	80-120			
<b>LCS (EJ42201-BS1)</b>				Prepared: 10/19/04 Analyzed: 10/20/04						
Benzene	92.7		ug/kg	100		92.7	80-120			
Toluene	96.6		"	100		96.6	80-120			
Ethylbenzene	100		"	100		100	80-120			
Xylene (p/m)	226		"	200		113	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	93.9		"	100		93.9	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			
<b>Calibration Check (EJ42201-CCV1)</b>				Prepared: 10/19/04 Analyzed: 10/21/04						
Benzene	103		ug/kg	100		103	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	222		"	200		111	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			
<b>Matrix Spike (EJ42201-MS1)</b>				Source: 4J19014-01	Prepared: 10/19/04 Analyzed: 10/21/04					
Benzene	2570		ug/kg	2500	ND	103	80-120			
Toluene	2470		"	2500	11.1	98.4	80-120			
Ethylbenzene	2550		"	2500	16.2	101	80-120			
Xylene (p/m)	5610		"	5000	35.6	111	80-120			
Xylene (o)	2720		"	2500	9.78	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S  
1301 S. County Road 1150  
Midland TX, 79705-4476

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
10/26/04 09:39

**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 EJ42201 - EPA 5030C (GC)</b>										
<b>Matrix Spike Dup (EJ42201-MSD1)</b>		<b>Source: 4JI9014-01</b>		<b>Prepared 10/19/04</b>		<b>Analyzed 10/21/04</b>				
Benzene	2660		ug/kg	2500	ND	106	80-120	2.87	20	
Toluene	2620		"	2500	11.1	104	80-120	5.53	20	
Ethylbenzene	2700		"	2500	16.2	107	80-120	5.77	20	
Xylene (p/m)	5520		"	5000	35.6	118	80-120	6.11	20	
Xylene (o)	2830		"	2500	9.78	113	80-120	4.52	20	
Surrogate: <i>a,a',a''-Trifluorotoluene</i>	112		"	100		112	80-120			
Surrogate: <i>4-Bromofluorobenzene</i>	118		"	100		118	80-120			

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 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
**Reported:**  
 10/26/04 09:39

**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 EJ42001 - % Solids</b>										
<b>Blank (EJ42001-BLK1)</b>										
% Moisture	0.0		%							Prepared & Analyzed: 10/20/04
<b>Duplicate (EJ42001-DUP1)</b>										
		<b>Source: 4J19005-01</b>								Prepared & Analyzed: 10/20/04
% Moisture	13.0		%		12.0			8.00	20	

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Project: Young Deep to Lynch  
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Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
10/26/04 09:39

#### Notes and Definitions

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

Report Approved By: \_\_\_\_\_

*Raland K. Tuttle*

Date: \_\_\_\_\_

10/26/04

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

Jeanne Mc Murrey, Inorg. Tech Director  
James L. Hawkins, Chemist/Geologist  
Sandra Biczugbe, 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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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

**Project Name:** Young Deep To Lynch

Project #: 2004-00180

**Project Loc:**

**POB:**

**Sampler Signature:**

Koger Boone

402,91615

Time

0.5%

YOUNG DEEP TO LYNCH 8"  
#2004-00180

**PLAIN**  
ALL-AMERICAN

## Environmental Lab of Texas

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

 Client: Plains P/L

 Date/Time: 10-19-04 @ 1130

 Order #: 4J19005

 Initials: JMM

#### Sample Receipt Checklist

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

Other observations:

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#### Variance Documentation:

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

---



---

Corrective Action Taken:

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**ATTACHMENT V: FORM C-141 AND SITE INFORMATION & METRICS  
FORM**

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: <b>Plains All American</b>	Contact: <b>Camille Reynolds</b>	
Address <b>PO Box 1660 5805 East Highway 80 Midland, Texas 79702</b>	Telephone No. <b>505.393.5611</b>	
Facility Name <b>Young Deep to Lynch 8" ##2004-00180</b>	Facility Type <b>8" Steel Pipeline</b>	
Surface Owner: <b>Bureau of Land Management</b>	Mineral Owner	Lease No.

### LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>11</b>	Township <b>T20S</b>	Range <b>R33E</b>	Feet from the	North/ South Line	Feet from the	East/West Line	County: <b>Lea</b>
----------------------------	----------------------	-------------------------	----------------------	---------------------	-------------------------	------------------	----------------	--------------------

Latitude: **32° 35' 27.30"N** Longitude: **103° 37' 41.48"W**

### NATURE OF RELEASE

Type of Release <b>Sweet Crude Oil</b>	Volume of Release <b>10 barrels</b>	Volume Recovered <b>0 barrels</b>
Source of Release <b>8" Steel Pipeline</b>	Date and Hour of Occurrence <b>8-5-04@7:30AM</b>	Date and Hour of Discovery <b>8-5-04@8:00AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Larry Johnson</b>	
By Whom?	Date and Hour <b>8-05-04@2:15PM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\*  
**NA**

Describe Cause of Problem and Remedial Action Taken.\* **8" Steel Pipeline The leak in the 8" steel transmission pipeline was due to internal corrosion; Temporary repair clamp installed. Operating pressure = 100-120 psi; API Gravity = 38-42 degrees; H2S = <10 ppm; Daily Volume = 2,600 bbls.**

Describe Area Affected and Cleanup Action Taken.\*  
**78 sqft ~25' x 7': Visibly contaminated soil was excavated and stored on plastic to await analytical results. The soil will be blended to below the NMOCD remedial goals on site or taken to the Plains Lea Station Landfarm for remediation. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.**

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Camille Reynolds</b>	Approved by District Supervisor:	
E-mail Address: <b>CJReynolds@PAALP.com</b>	Approval Date:	Expiration Date:
Title: <b>District Environmental Supervisor</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: <b>505.393.5611</b>	

Attach Additional Sheets If Necessary

Plains All American Site Information and Metrics		Incident Date: Plains All American	NMOCD Notified: 8-05-04@2:15PM
SITE: <b>Young Deep to Lynch 8"</b>		Assigned Site Reference #: <b>#2004-00180</b>	
Company: Plains All American		NATIONAL RESPONSE CENTER - 800.424.8802	
Street Address: PO Box 1660		Notified Date/Time:	
Mailing Address: 5805 East Highway 80		Notified by:	
City, State, Zip: Midland, Texas 79702		Person Notified:	
Representative: Camille Reynolds		NRC Report# :	
Representative Telephone: 505.393.5611			
Telephone:			
Fluid volume released (bbls): 10		Recovered (bbls): 0 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Young Deep to Lynch 8"			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bureau of Land Management			
LSP Dimensions ~25' x 7'			
LSP Area: 78 sqft ft <sup>2</sup>			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32° 35' 27.30"N			
Longitude: 103° 37' 41.48"W			
Elevation above mean sea level: 3,590' amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: SE¼ of the NE¼		Unit Letter: H	
Location- Section: 11			
Location- Township: T20S			
Location- Range: R33E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to ground water (DG) 150			
Depth of contamination (DC) - 15'			
Depth to ground water (DG - DC = DtGW) - 135'			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points			
If Depth to GW >100 feet: 0 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
Ground water Score = 0		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 0		3. Distance to Surface Water Body	
		<200 horizontal feet: 20 points	
		200-100 horizontal feet: 10 points	
		>1000 horizontal feet: 0 points	
		Surface Water Score = 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm
<sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis			



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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

August 16, 2004

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

Subject: Plains All American Initial C-141

Re: Young Deep to Lynch 8", #2004-00180  
UL H, SE¼ of the NE¼ of Section 11 T20S R33E  
Latitude 32° 35' 27.30"N and Longitude 103° 37' 41.48"W  
Landowner: Bureau of Land Management

Dear Mr. Johnson,

Environmental Plus, Inc. (EPI), on behalf of Camille Reynolds, Plains All American, submits the attached New Mexico Oil Conservation Division (NMOCD) initial form C-141 for the above referenced leak site located on land owned by the Bureau of Land Management, approximately 34.5 miles west of Hobbs, New Mexico. The New Mexico Office of the State Engineer Website Database records indicates an area groundwater level of 150 feet below ground surface. There are no recorded or observed water wells or surface water bodies within 1,000 horizontal feet of the site. The attached site information and metrics form ranks the site in accordance with the "NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)." Photographs and maps are attached.

Plains All American proposes to remediate the site consistent with the NMOCD Guidelines and, if necessary, develop and submit a site specific remediation plan for NMOCD approval to address issues identified during delineation of the vertical and horizontal extents of contamination of the Constituents of Concern (CoCs), i.e., Total Petroleum Hydrocarbon EPA method 8015m (TPH<sup>8015m</sup>), Benzene, and BTEX, i.e., the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes. The contaminated soil is not exempted from RCRA 40 CFR Part 261.



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If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively or Mr. Camille Reynolds at 505.393.5611. All official communication should be addressed to:

Mr. Camille Reynolds  
Plains All American  
PO Box 1660  
5805 East Highway 80  
Midland, Texas 79706

Sincerely,

Pat McCasland  
EPI Technical Services Manager

cc: Camille Reynolds, Plains All American, w/enclosure  
Jeff Dann, Plains All American, w/enclosure  
Ben Miller, EPI Vice President and General Manager  
Sherry Miller, EPI President  
file

ENVIRONMENTAL PLUS, INC.




**Site Information and Metrics**

Incident Date:  
**8-5-04@7:30AM**

NMOCD Notified:  
8-05-04@2:15PM

SITE: Young Deep to Lynch 8"		Assigned Site Reference #: #2004-00180	
Company: Plains All American			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Camille Reynolds			
Representative Telephone: 505.393.5611			
Telephone:			
Fluid volume released (bbls): 10		Recovered (bbls): 0 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Young Deep to Lynch 8"			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bureau of Land Management			
LSP Dimensions ~25' x 7'			
LSP Area: 78 ft <sup>2</sup>			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32° 35' 27.30"N			
Longitude: 103° 37' 41.48"W			
Elevation above mean sea level: 3,590' amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼¼: SE¼ of the NE¼		Unit Letter: H	
Location- Section: 11			
Location- Township: T20S			
Location- Range: R33E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to ground water (DG) 150			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - ?			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		Wellhead Protection Area Score= 0	
Ground water Score = 0		Surface Water Score= 0	
Site Rank (1+2+3) = 0			
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

<sup>1</sup>100 ppm field VOC headspace measurement may be substituted for lab analysis

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 March 17, 1999

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 <b>Plains All American</b>	Contact <b>Camille Reynolds</b>
Address <b>PO Box 1660 5805 East Highway 80 Midland, Texas 79702</b>	Telephone No. <b>505.393.5611</b>
Facility Name <b>Young Deep to Lynch 8" #2004-00180</b>	Facility Type <b>8" Steel Pipeline</b>

Surface Owner: <b>Bureau of Land Management</b>	Mineral Owner	Lease No.
---	---------------	-----------

### LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>11</b>	Township <b>T20S</b>	Range <b>R33E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County: <b>Lea</b>
-------------------------	----------------------	-------------------------	----------------------	---------------	------------------	---------------	----------------	--------------------

Latitude: 32° 35' 27.30"N Longitude: 103° 37' 41.48"W

### NATURE OF RELEASE

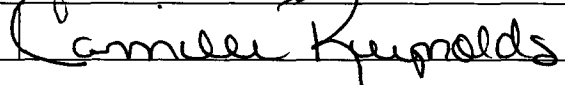
Type of Release <b>Sweet Crude Oil</b>	Volume of Release <b>10 barrels</b>	Volume Recovered <b>0 bbls barrels</b>
Source of Release <b>8" Steel Pipeline</b>	Date and Hour of Occurrence <b>8-5-04@7:30AM</b>	Date and Hour of Discovery <b>8-5-04@8:00AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Larry Johnson</b>	
By Whom?	Date and Hour <b>8-05-04@2:15PM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\*  
**NA**

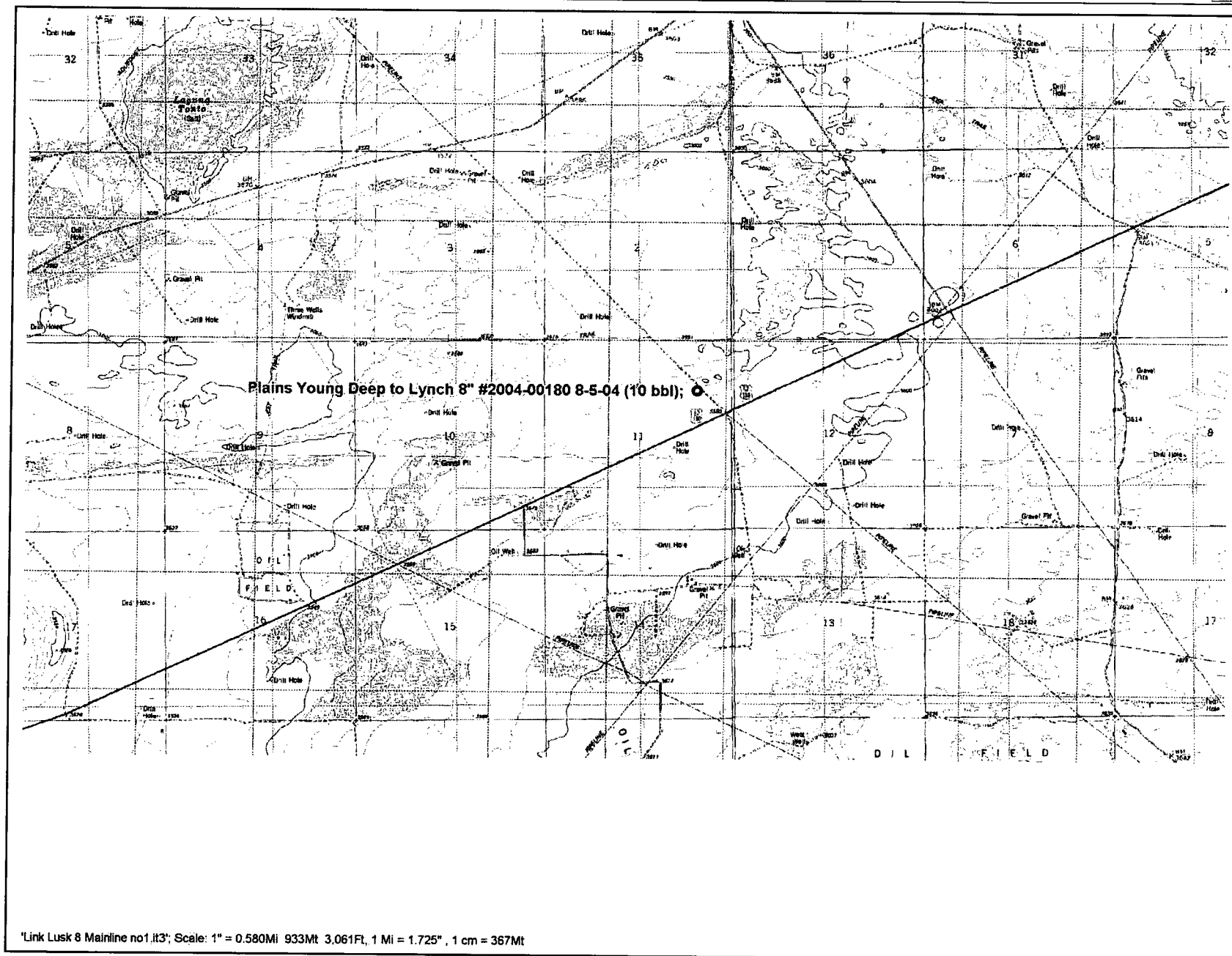
Describe Cause of Problem and Remedial Action Taken. **\*8" Steel Transmission Pipeline; Leak was due to internal corrosion; Temporary repair clamp installed; Operating Pressure = 100-120 psi; API Gravity = 38-42 degrees; H<sub>2</sub>S = <10 ppm; Daily volume = ~2,600 bbls.**

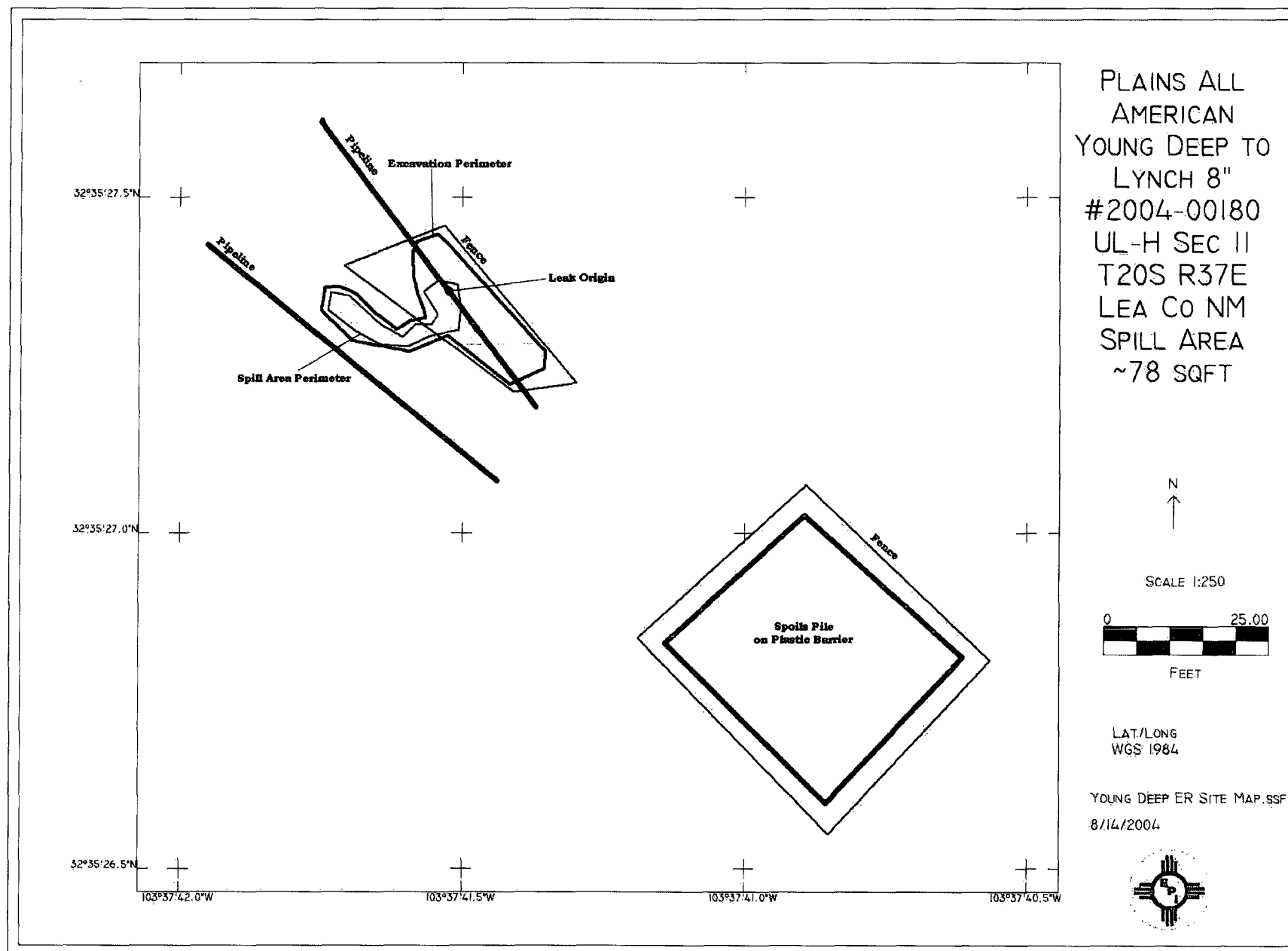
Describe Area Affected and Cleanup Action Taken. **\*□ Visibly contaminated soil was excavated and stored on plastic to await analytical results. The soil will be blended to below the NMOCD remedial goals on site or taken to the Plains Lea Station Landfarm for remediation. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.**

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.

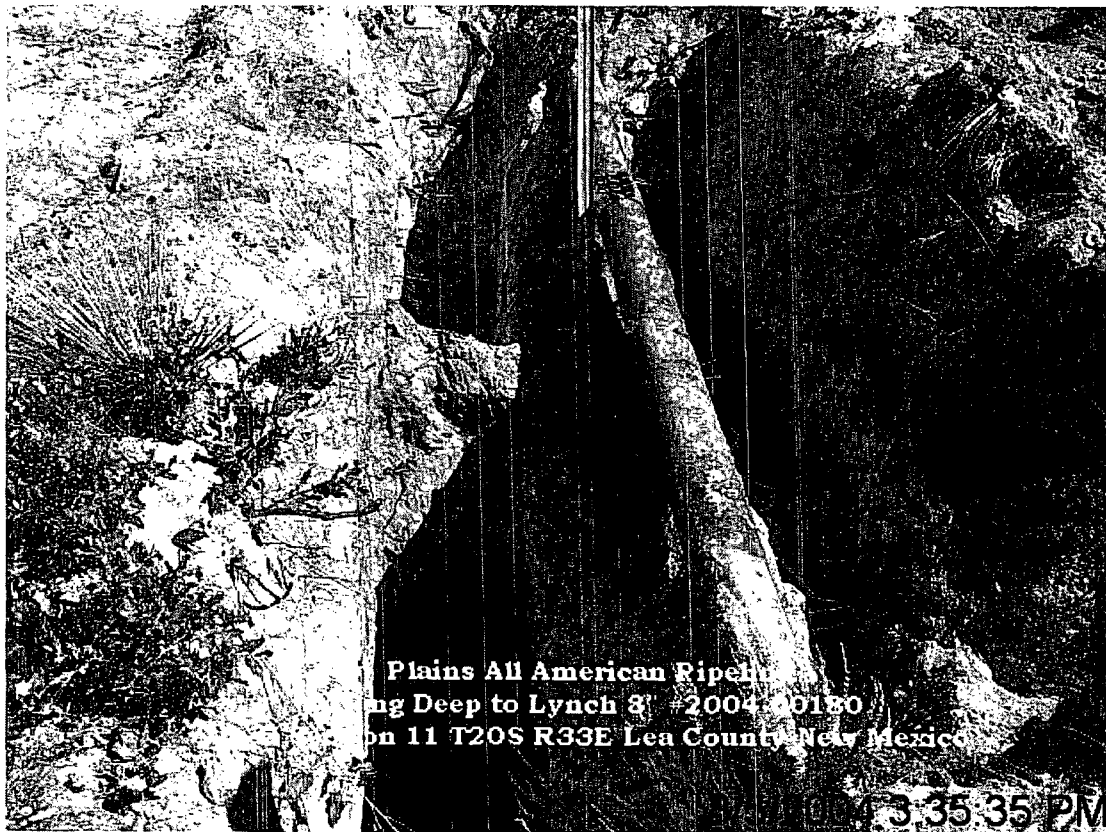
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds (e-mail: CJReynolds@paalp.com)	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: August 16, 2004 Phone: 505.393.5611	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary











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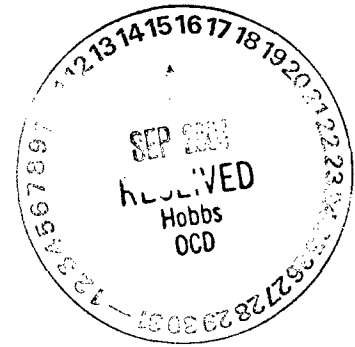
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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

September 14, 2004

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



Subject: Delineation Proposal and Remediation Alternatives

Re: Young Deep to Lynch 8", #2004-00180  
UL-H, SE¼ of the NE¼ of Section 11 T20S R33E  
Latitude: 32° 35' 27.30"N and Longitude: 103° 37' 41.48"W  
Landowner: Bureau of Land Management

Dear Ms. Reynolds,

Environmental Plus, Inc. (EPI) on behalf of Plains All American Pipeline, submits this delineation proposal for the above referenced leak site on land owned by the Bureau of Land Management located approximately 34.5 miles west of Hobbs, New Mexico. The New Mexico Office of the State Engineer Database records indicate an average area water level of 150 feet below ground surface ('bgs) with no water wells or surface water bodies located within 1,000 horizontal feet of the site. The attached site information and metrics form ranks the site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). Site maps and photographs are also attached.

This release was estimated at 10 barrels (bbls) of crude oil with 0 bbls recovered and was reported to the New Mexico Oil Conservation Division (NMOCD) according to the NMOCD Rule 116. The Constituents of Concern (CoCs) are: Total Petroleum Hydrocarbon EPA method 8015m (TPH<sup>8015m</sup>), benzene, and BTEX, i.e., the mass sum of benzene, toluene, ethylbenzene, and xylenes. The NMOCD Guidelines allow submission of VOC headspace survey data <100 ppm collected in the field in lieu of laboratory benzene and BTEX closure analyses. The impacted soil is not exempted from RCRA 40 CFR Part 261.

On August 5, 2004, with Plains oversight, EPI excavated a portion of the visibly contaminated and odorous soil and stockpiled on site. The sides and bottom of the excavation were sampled on August 31, 2004. The analytical results are summarized and illustrated below. The analytical report is also included. The east and west sidewalls and the excavation bottom remain impacted above the CoC remedial goals and requires further investigation.

To delineate the extents of crude oil impact, it is proposed to advance and sample a three soil borings using a hollow stem auger rig; borehole BH1 approximately 10' east of the leak origin, borehole BH2 adjacent to the leak origin, and borehole BH3 approximately 10' west of the leak origin. To facilitate rig access, the current excavation will be backfilled with the stockpiled soil. The CoC NMOCD remedial goals have been achieved in the north and south sidewalls.

Remediation alternatives include removal of all soil impacted above the CoC thresholds and disposing or blending; or disposing or blending near surface soil and isolating the remaining impacted source term with an engineered clay barrier. Barrier installation would be supported by a conservative risk assessment.

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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively or Mr. Camille Reynolds at 505.393.5611. All official communication should be addressed to:

Mr. Camille Reynolds  
Plains All American  
PO Box 1660  
5805 East Highway 80  
Midland, Texas 79706  
email: CJReynolds@paalp.com

Sincerely,

Pat McCasland  
EPI Technical Services Manager  
Email: enviplus1@aol.com

cc: Camille Reynolds, Plains All American email: CJReynolds@paalp.com  
Jeff Dann, Plains All American, email: JPDann@paalp.com  
Ben Miller, EPI Vice President and General Manager  
Sherry Miller, EPI President  
file

ENVIRONMENTAL PLUS, INC.



**Plains All American Site  
Information and Metrics**

Incident Date:  
8-5-04@7:30AM

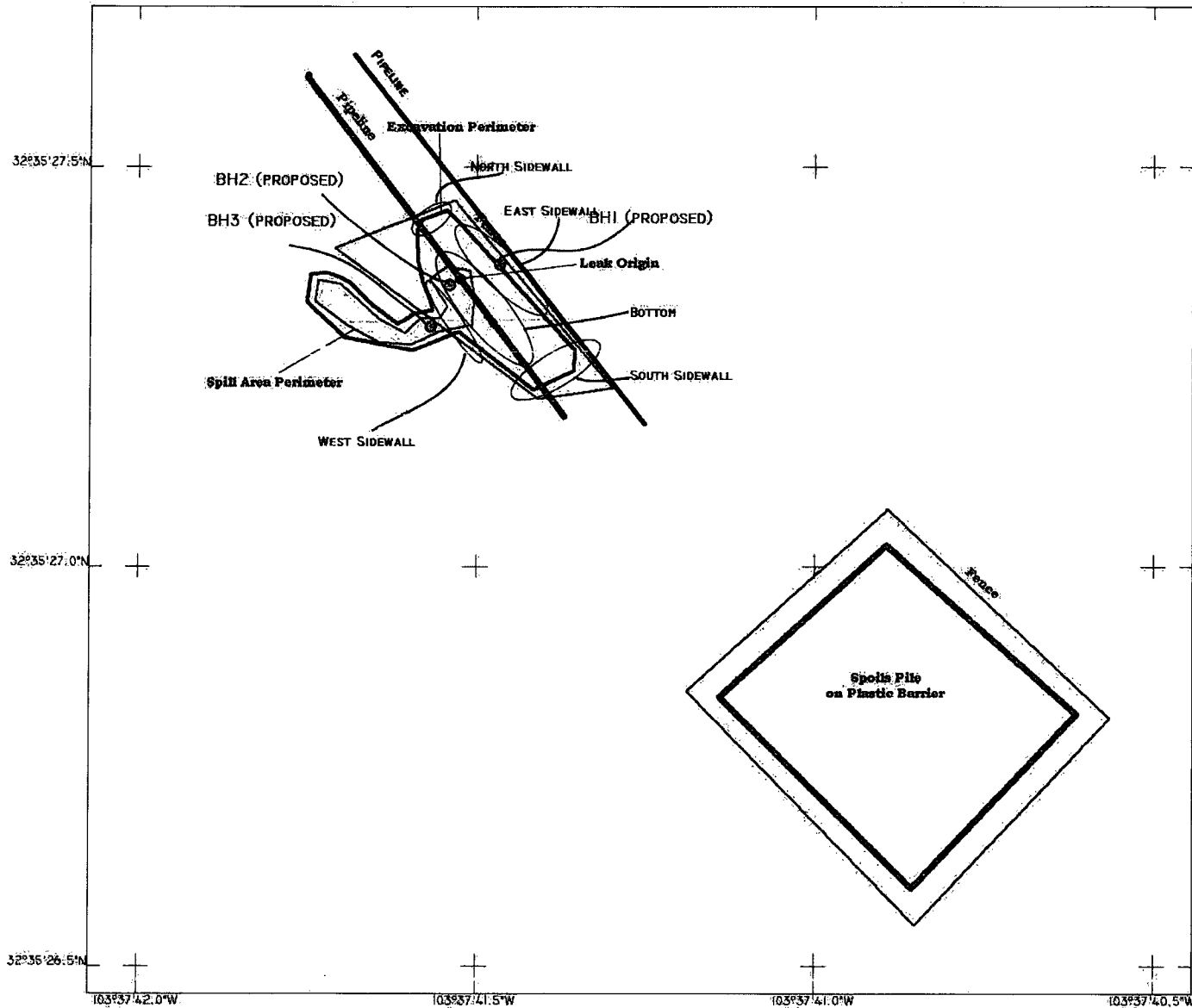
NMOCD Notified:  
8-05-04@2:15PM

SITE: Young Deep to Lynch 8"		Assigned Site Reference #: #2004-00180	
Company: Plains All American			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Camille Reynolds			
Representative Telephone: 505.393.5611			
Telephone:			
Fluid volume released (bbls): 10		Recovered (bbls): 0 bbls	
<p>&gt;25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases &gt;500 mcf Natural Gas)</p>			
<p>5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)</p>			
Leak, Spill, or Pit (LSP) Name: Young Deep to Lynch 8"			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bureau of Land Management			
LSP Dimensions ~25' x 7'			
LSP Area: 78 sqft ft <sup>2</sup>			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32° 35' 27.30"N			
Longitude: 103° 37' 41.48"W			
Elevation above mean sea level: 3,590' amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼¼: SE¼ of the NE¼		Unit Letter: H	
Location- Section: 11			
Location- Township: T20S			
Location- Range: R33E			
Surface water body within 1000' radius of site: none			
Surface water body within 1000' radius of site:			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site:			
Depth from land surface to ground water (DG) 150			
Depth of contamination (DC) – unknown			
Depth to ground water (DG – DC = DtGW) - unknown			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from	
If Depth to GW 50 to 99 feet: 10 points		private domestic water source: 20 points	
If Depth to GW >100 feet: 0 points		If >1000' from water source, or; >200' from	
		private domestic water source: 0 points	
Ground water Score = unknown		Wellhead Protection Area Score= 0	
		Surface Water Score= 0	
Site Rank (1+2+3) = unknown; assume a site ranking of 10 points			
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

<sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis

Young Deep to Lynch 8"  
#2004-00180

PLAINS ALL  
AMERICAN  
YOUNG DEEP TO  
LYNCH 8"  
#2004-00180  
UL-H SEC II  
T20S R37E  
LEA CO NM  
SPILL AREA  
~78 SQFT



**Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
Excavation Delineation Data**

Sample Location	Description	Sampling Interval	SAMPLE ID#	Date	Lithology	VOC Headspace	GRO <sup>3</sup>	DRO <sup>4</sup>	TPH <sup>5</sup>	BTEX <sup>9</sup>	Benzene	Toluene	Ethylbenzene	p/m Xylene	o-Xylene
		(FT. BGS <sup>1</sup> )				ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Bottom	Composite	12	SLYD83104BHC	8/31/04	Sand		1290	10800	<b>12090</b>	<b>54.6100</b>	1.4200	13.3000	9.3500	21.2000	9.3400
North Sidewall	Composite	2 to 12	SLYD83104NSW	8/31/04	Sand		11.2	90	101.2	<i>0.1250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>
South Sidewall	Composite	2 to 12	SLYD83104SSW	8/31/04	Sand		14	70.4	84.4	<i>0.1250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>	<i>0.0250</i>
East Sidewall	Composite	2 to 12	SLYD83104ESW	8/31/04	Sand		2590	19700	<b>22290</b>	32.8170	0.2070	5.6200	6.4000	14.7000	5.8900
West Sidewall	Composite	2 to 12	SLYD83104WSW	8/31/04	Sand		3070	35600	<b>38670</b>	37.4100	1.1200	8.7800	7.0400	14.4000	6.0700

100 ppm Isobutylene calibration gas = 101 ppm

<sup>1</sup>bgs – below ground surface

<sup>2</sup>VOC–Volatile Organic Contaminants/Constituents

<sup>3</sup>GRO–Gasoline Range Organics C<sub>6</sub>–C<sub>12</sub>

<sup>4</sup>DRO–Diesel Range Organics C<sub>12</sub>–C<sub>35</sub>

Reported detection limits are considered “de minimus” values and are included in the GRO/DRO summations.

<sup>5</sup>TPH–Total Petroleum Hydrocarbon = GRO+DRO.

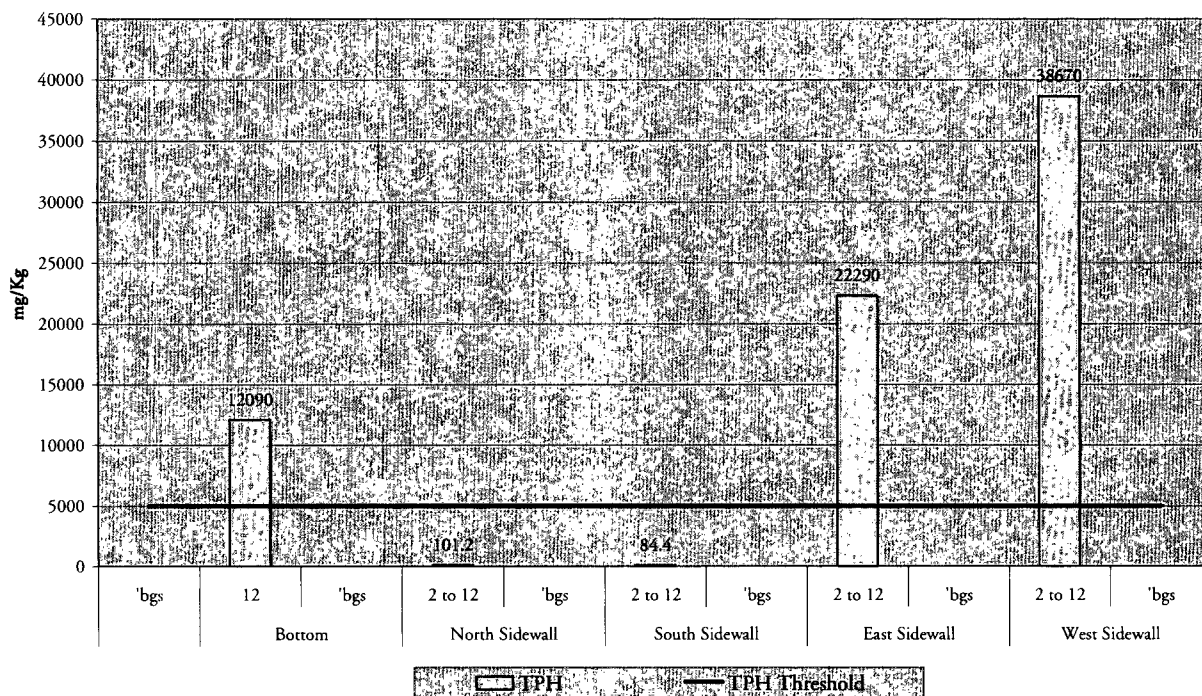
<sup>6</sup>Bolded values are in excess of the NMOCD guideline threshold for the parameter

<sup>7</sup>Italicized values are < the instrument detection limit.

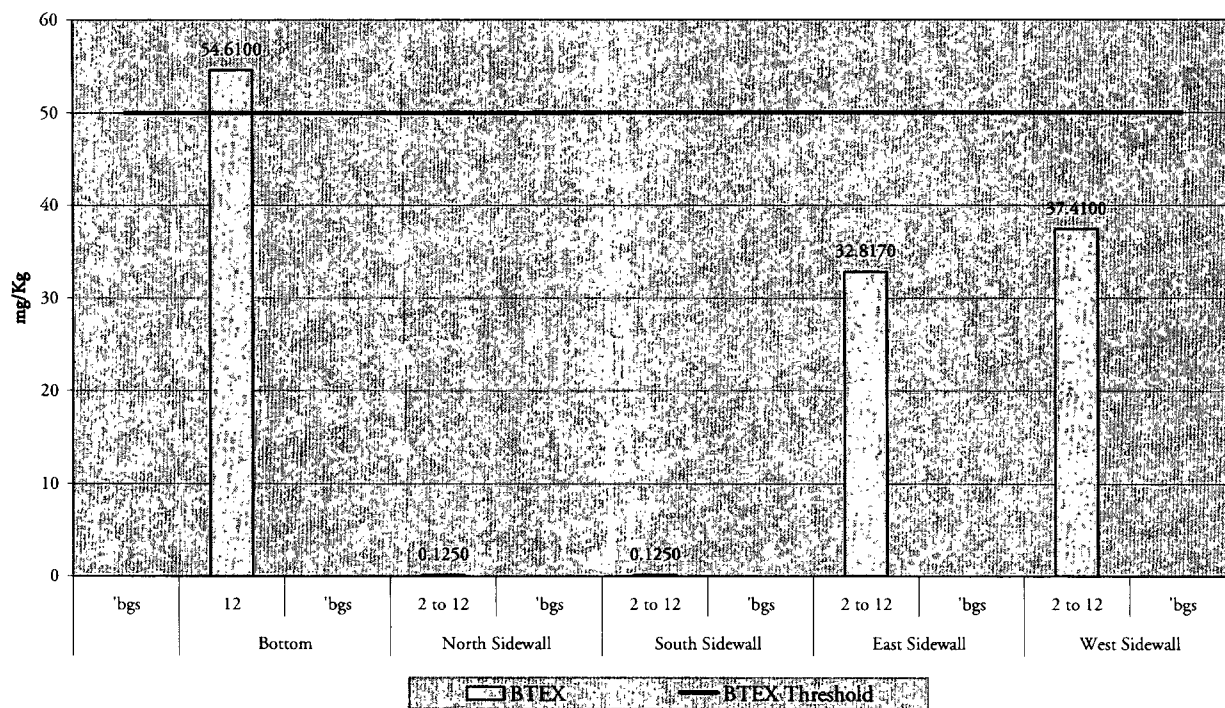
<sup>8</sup>na - not analyzed

<sup>9</sup>BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

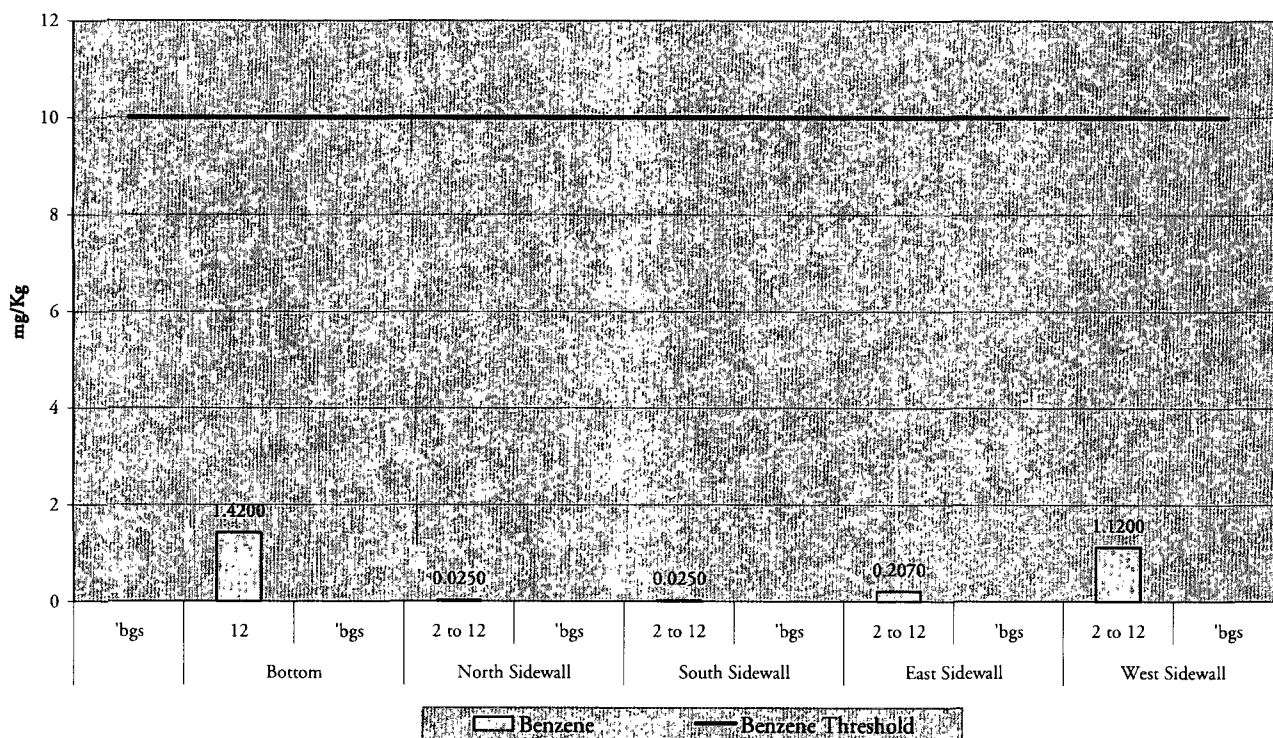
Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
Total Petroleum Hydrocarbon 8015M Delineation

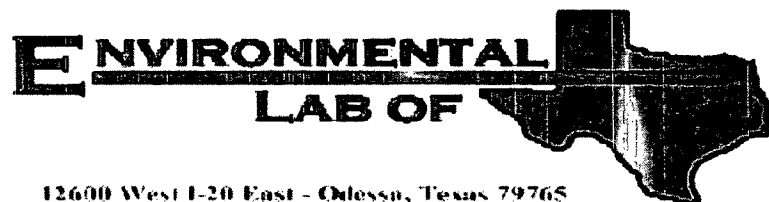


Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
BTEX Delineation



Plains All American Pipeline  
Young Deep to Lynch 8" #2004-00180  
Benzene Delineation





12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Jeff Damm

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Young Deep to Lynch

Project Number: 2004-00180

Location: None Given

Lab Order Number: 4102009

Report Date: 09/09/04

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
09/09/04 19:05

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SLYD83104BHC	4I02009-01	Soil	08/31/04 08:30	09/02/04 16:48
SLYD83104NSW	4I02009-02	Soil	08/31/04 08:40	09/02/04 16:48
SLYD83104SSW	4I02009-03	Soil	08/31/04 08:50	09/02/04 16:48
SLYD83104ESW	4I02009-04	Soil	08/31/04 09:00	09/02/04 16:48
SLYD83104WSW	4I02009-05	Soil	08/31/04 09:10	09/02/04 16:48



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

 Project: Young Deep to Lynch  
 Project Number: 2004-00180  
 Project Manager: Jeff Dann

 Fax: (432) 687-4914  
**Reported:**  
 09/09/04 19:05

### Organics by GC

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104BHC (4102009-01) Soil</b>									
Benzene	1.42	0.100	mg/kg dry	100	E140710	09/06/04	09/06/04	EPA 8021B	
Toluene	13.3	0.100	"	"	"	"	"	"	
Ethylbenzene	9.35	0.100	"	"	"	"	"	"	
Xylene (p/m)	21.2	0.100	"	"	"	"	"	"	
Xylene (o)	9.34	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		214 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		115 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	1290	10.0	mg/kg dry	1	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	10800	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	12100	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		129 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		370 %	70-130	"	"	"	"	"	S-04
<b>SLYD83104NSW (4102009-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.1 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	11.2	10.0	mg/kg dry	1	E140811	09/02/04	09/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	90.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	101	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		124 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130	"	"	"	"	"	
<b>SLYD83104SSW (4102009-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.2 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	14.0	10.0	mg/kg dry	1	E140811	09/02/04	09/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	70.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	84.4	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
Reported:  
09/09/04 19:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104SSW (4102009-03) Soil</b>									
Surrogate: 1-Chlorooctane		120 %	70-130		E140811	09/02/04	09/09/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
<b>SLYD83104ESW (4102009-04) Soil</b>									
Benzene	0.207	0.100	mg/kg dry	100	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	5.62	0.100	"	"	"	"	"	"	
Ethylbenzene	6.40	0.100	"	"	"	"	"	"	
Xylene (p/m)	14.7	0.100	"	"	"	"	"	"	
Xylene (o)	5.89	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		121 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		99.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	2590	50.0	mg/kg dry	5	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	19700	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	22300	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		35.8 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		31.2 %	70-130		"	"	"	"	S-06
<b>SLYD83104WSW (4102009-05) Soil</b>									
Benzene	1.12	0.200	mg/kg dry	200	E140710	09/06/04	09/07/04	EPA 8021B	
Toluene	8.78	0.200	"	"	"	"	"	"	
Ethylbenzene	7.04	0.200	"	"	"	"	"	"	
Xylene (p/m)	14.4	0.200	"	"	"	"	"	"	
Xylene (o)	6.07	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		135 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		95.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	3070	50.0	mg/kg dry	5	E140801	09/02/04	09/08/04	EPA 8015M	
Diesel Range Organics >C12-C35	35600	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	38700	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		44.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		30.0 %	70-130		"	"	"	"	S-06

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 09/09/04 19:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SLYD83104BHC (4I02009-01) Soil</b>									
% Solids	91.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104NSW (4I02009-02) Soil</b>									
% Solids	90.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104SSW (4I02009-03) Soil</b>									
% Solids	89.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104ESW (4I02009-04) Soil</b>									
% Solids	96.0		%	1	E140711	09/03/04	09/03/04	% calculation	
<b>SLYD83104WSW (4I02009-05) Soil</b>									
% Solids	97.0		%	1	E140711	09/03/04	09/03/04	% calculation	

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 Reported:  
 09/09/04 19:05

### 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 EI40710 - EPA 5030C (GC)**
**Blank (EI40710-BLK1)**

Prepared &amp; Analyzed: 09/06/04

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	81.9		ug/kg	100		81.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.8		"	100		80.8	80-120			

**LCS (EI40710-BSL)**

Prepared &amp; Analyzed: 09/06/04

Benzene	111		ug/kg	100		111	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	112		"	100		112	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	86.3		"	100		86.3	80-120			
Surrogate: 4-Bromofluorobenzene	91.5		"	100		91.5	80-120			

**Calibration Check (EI40710-CCV1)**

Prepared: 09/06/04 Analyzed: 09/07/04

Benzene	106		ug/kg	100		106	80-120			
Toluene	98.4		"	100		98.4	80-120			
Ethylbenzene	93.0		"	100		93.0	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	102		"	100		102	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	99.6		"	100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	84.4		"	100		84.4	80-120			

**Matrix Spike (EI40710-MS1)**

Source: 4103007-05

Prepared: 09/06/04 Analyzed: 09/07/04

Benzene	105		ug/kg	100	ND	105	80-120			
Toluene	99.8		"	100	ND	99.8	80-120			
Ethylbenzene	97.9		"	100	ND	97.9	80-120			
Xylene (p/m)	215		"	200	ND	108	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	89.7		"	100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	90.3		"	100		90.3	80-120			

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09/09/04 19:05

**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 EI40710 - EPA 5030C (GC)**

**Matrix Spike Dup (EI40710-MSD1)**

Source: 4103007-05

Prepared: 09/06/04 Analyzed: 09/07/04

Benzene	108		ug/kg	100	ND	108	80-120	2.82	20	
Toluene	102		"	100	ND	102	80-120	2.18	20	
Ethylbenzene	99.4		"	100	ND	99.4	80-120	1.52	20	
Xylene (p/m)	218		"	200	ND	109	80-120	0.922	20	
Xylene (o)	109		"	100	ND	109	80-120	0.922	20	
Surrogate: <i>a,a</i> - <i>Di</i> -fluorotoluene	88.8		"	100		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	90.1		"	100		90.1	80-120			

**Batch EI40801 - Solvent Extraction (GC)**

**Blank (EI40801-HLKI)**

Prepared: 08/30/04 Analyzed: 09/07/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			

**LCS (EI40801-BSI)**

Prepared: 08/30/04 Analyzed: 09/07/04

Gasoline Range Organics C6-C12	569	10.0	mg/kg wet	500		114	75-125			
Diesel Range Organics >C12-C35	590	10.0	"	500		118	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	63.9		"	50.0		128	70-130			

**LCS Dup (EI40801-BSD1)**

Prepared: 08/30/04 Analyzed: 09/07/04

Gasoline Range Organics C6-C12	558	10.0	mg/kg wet	500		112	75-125	1.95	20	
Diesel Range Organics >C12-C35	580	10.0	"	500		116	75-125	1.71	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1000		114	75-125	1.74	20	
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	56.8		"	50.0		114	70-130			

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09/09/04 19:05

**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 EI40801 - Solvent Extraction (GC)**

**Calibration Check (EI40801-CCV1)**

Prepared: 08/30/04 Analyzed: 09/07/04

Gasoline Range Organics C6-C12	414		mg/kg	500		82.8	80-120			
Diesel Range Organics >C12-C35	521		"	500		104	80-120			
Total Hydrocarbon C6-C35	935		"	1000		93.5	80-120			
Surrogate: 1-Chlorooctane	35.6		"	50.0		71.2	70-130			
Surrogate: 1-Chlorooctadecane	35.5		"	50.0		71.0	70-130			

**Batch EI40811 - Solvent Extraction (GC)**

**Blank (EI40811-BLK1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.2	70-130			
Surrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			

**LCS (EI40811-BS1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	556	10.0	"	500		111	75-125			
Total Hydrocarbon C6-C35	996	10.0	"	1000		99.6	75-125			
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.4	70-130			
Surrogate: 1-Chlorooctadecane	50.1		"	50.0		100	70-130			

**Calibration Check (EI40811-CCV1)**

Prepared: 09/02/04 Analyzed: 09/08/04

Gasoline Range Organics C6-C12	422		mg/kg	500		84.4	80-120			
Diesel Range Organics >C12-C35	538		"	500		108	80-120			
Total Hydrocarbon C6-C35	960		"	1000		96.0	80-120			
Surrogate: 1-Chlorooctane	53.2		"	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	59.9		"	50.0		120	70-130			

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### 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 EI40811 - Solvent Extraction (GC)**

<b>Matrix Spike (EI40811-MS1)</b>		<b>Source: 4102001-07</b>		<b>Prepared: 09/02/04</b>		<b>Analyzed: 09/08/04</b>				
Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	549	ND	94.4	75-125			
Diesel Range Organics >C12-C35	641	10.0	"	549	ND	117	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1100	ND	105	75-125			
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			
<b>Matrix Spike Dup (EI40811-MSD1)</b>		<b>Source: 4102001-07</b>		<b>Prepared: 09/02/04</b>		<b>Analyzed: 09/08/04</b>				
Gasoline Range Organics C6-C12	517	10.0	mg/kg dry	549	ND	94.2	75-125	0.193	20	
Diesel Range Organics >C12-C35	611	10.0	"	549	ND	111	75-125	4.79	20	
Total Hydrocarbon C6-C35	1130	10.0	"	1100	ND	103	75-125	2.62	20	
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	64.8		"	50.0		130	70-130			

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 09/09/04 19:05

**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 EI40711 - General Preparation (Prep)**
**Blank (EI40711-BLK1)**

Prepared &amp; Analyzed: 09/02/04

% Solids	100	%
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**Duplicate (EI40711-DUP1)**

Source: 4H31009-01

Prepared &amp; Analyzed: 09/02/04

% Solids	93.0	%	94.0	1.07	20
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Project: Young Deep to Lynch  
Project Number: 2004-00180  
Project Manager: Jeff Dann

Fax: (432) 687-4914  
**Reported:**  
09/09/04 19:05

#### Notes and Definitions

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

9/9/04

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

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

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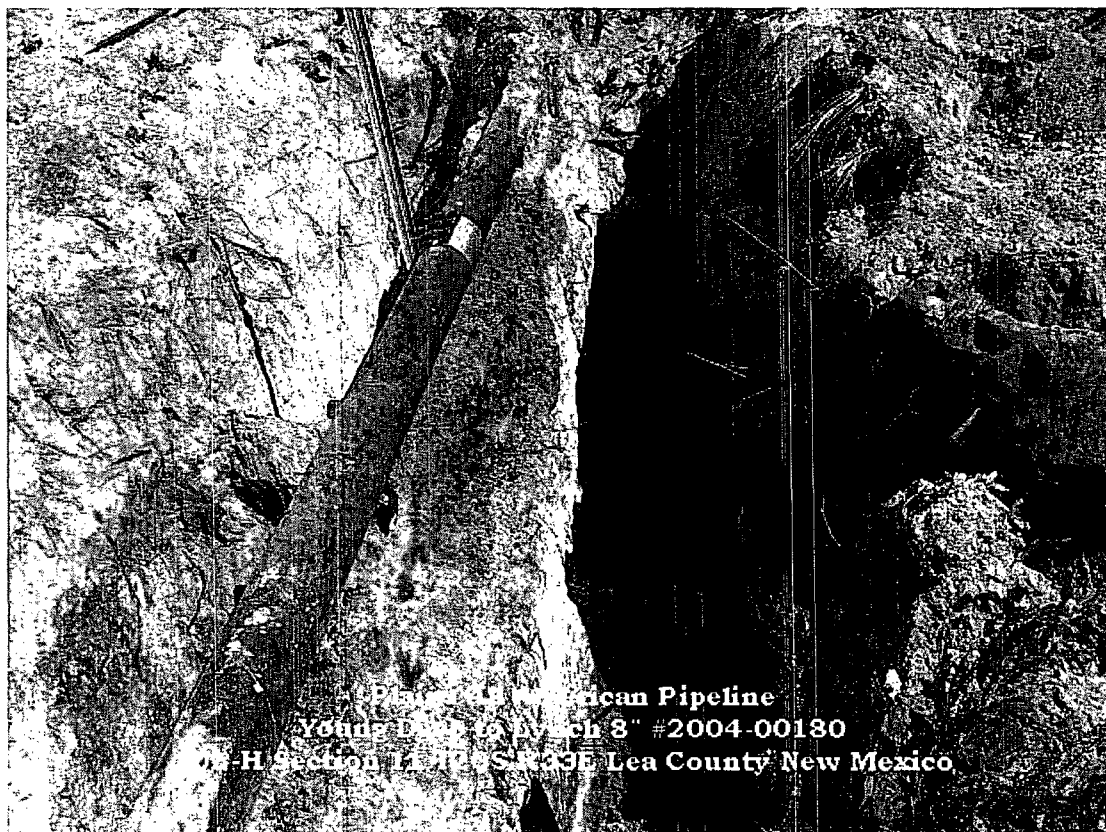
If you have received this material in error, please notify us immediately at 432-563-1800.

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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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713



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 March 17, 1999

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 <b>Plains All American</b>	Contact <b>Camille Reynolds</b>
Address <b>PO Box 1660 5805 East Highway 80 Midland, Texas 79702</b>	Telephone No. <b>505.393.5611</b>
Facility Name <b>Young Deep to Lynch 8" #2004-00180</b>	Facility Type <b>8" Steel Pipeline</b>

Surface Owner: <b>Bureau of Land Management</b>	Mineral Owner	Lease No.
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### LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>11</b>	Township <b>T20S</b>	Range <b>R33E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County: <b>Lea</b>
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Latitude: 32° 35' 27.30"N

Longitude: 103° 37' 41.48"W

### NATURE OF RELEASE

Type of Release <b>Sweet Crude Oil</b>	Volume of Release <b>10 barrels</b>	Volume Recovered <b>0 bbls barrels</b>
Source of Release <b>8" Steel Pipeline</b>	Date and Hour of Occurrence <b>8-5-04@7:30AM</b>	Date and Hour of Discovery <b>8-5-04@8:00AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Larry Johnson</b>	
By Whom?	Date and Hour <b>8-05-04@2:15PM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		

Describe Cause of Problem and Remedial Action Taken.\***8" Steel Transmission Pipeline; Leak was due to internal corrosion; Temporary repair clamp installed; Operating Pressure = 100-120 psi; API Gravity = 38-42 degrees; H<sub>2</sub>S = <10 ppm; Daily volume = ~2,600 bbls.**

Describe Area Affected and Cleanup Action Taken.\*☐ **Visibly contaminated soil was excavated and stored on plastic to await analytical results. The soil will be blended to below the NMOCD remedial goals on site or taken to the Plains Lea Station Landfarm for remediation. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.**

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds (e-mail: CJReynolds@paalp.com)	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: August 16, 2004 Phone: 505.393.5611	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary