1R - 91

REPORTS

DATE:

4/12/2006

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

April 12, 2006

Ms. Camille Reynolds
Plains All American
3112 West Highway 82
Lovington, NM 88260

RE: 2005 Annual Monitoring Report
Plains Pipeline, L.P. South Mattix Site
Plains Reference: 2000-10410
NW/4 SE/4 Section 15, Township 24 South, Range 37 East
Lea County, New Mexico
NMOCD File Number 1R-0091

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report, submitted, on behalf of Plains Pipeline, L.P. (Plains), by Environmental Plus, Inc. This report is hereby accepted and approved with the following understandings and conditions:

1. Plains will continue to collect groundwater samples and water/PSH level data on a quarterly basis, and the samples shall be submitted for quantification of BTEX quarterly, and PAH's annually.
2. If PSH appears in the groundwater monitoring wells, Plains shall visit the site semi-monthly to recover the PSH.
3. Plains will implement the "Interim Remediation Plan" (January 2006) during the second quarter of 2006.

NMOCD approval does not relieve Plains of liability should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other governmental agency.

If you have any questions, contact me at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

Edwin E. Martin
Environmental Bureau

Copy: NMOCD, Hobbs
Iain Olness, EPI

PLAINS
ALL AMERICAN

2006 MAR 1 PM 12 50

February 27, 2006

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Report
1 Site in Lea County, New Mexico

Dear Mr. Martin:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring report for the following site:

South Mattix Section 15, Township 24 South, Range 37 East, Lea County

EPI prepared this document and has vouched for its accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the document and interviewed EPI in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Report for the above facility.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

PLAINS
ALL AMERICAN
PIPELINE, L.P.

Report is on the L-Drive

2005 ANNUAL MONITORING REPORT

PLAINS PIPELINE, L.P.
SOUTH MATTIX
PLAINS REF: 2000-10410
(COMPANY #231735)

NW¼ OF THE SE¼ OF SECTION 15, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

~10 MILES NORTHEAST OF JAL,
LEA COUNTY, NEW MEXICO
LATITUDE: N 32° 13' 01" LONGITUDE: W 103° 08' 57"

FEBRUARY 2006

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O
P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
FAX: (505)394-2601
jolness@envplus.net

Distribution List

2005 Annual Monitoring Report

Plains Pipeline, L.P.

South Mattix (Ref. #2000-10410)

Name	Title	Company or Agency	Mailing Address	e-mail
Ed Martin	Environmental Engineer	New Mexico Oil Conservation Division – Santa Fe	1120 South St. Francis Santa Fe, NM 87505	ed.martin@state.nm.us
Larry Johnson	Environmental Engineer	New Mexico Oil Conservation Division – Hobbs	1625 North French Drive Hobbs, NM 88240	larry.johnson@state.nm.us
Jeff Dann	Senior Environmental Specialist	Plains All American Pipeline	333 Clay Street, Suite 1600 Houston, TX 77002	jpdann@paalp.com
Camille Reynolds	Remediation Coordinator	Plains All American Pipeline	3112 West Highway 82 Lovington, NM 88260	cjreynolds@paalp.com
File	- -	Environmental Plus, Inc.	P.O. Box 1558 Eunice, NM 88231	iolness@envplus.net

Standard of Care

Annual Monitoring Report

South Mattix
Ref. # 2000-10410

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:

Iain A. Olness, P.G.
Hydrogeologist

26 February 2006
Date

This report was reviewed by:

Pat McCasland
Environmental Consultant

26 February 2006
Date

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FIGURES

TABLES

APPENDICES

1.0 Background

The Plains Pipeline, L.P. (Plains) South Mattix site is located in Unit Letter-G (the NW¼ of the SE¼), of Section 15, Range 37E, Township 24S at a latitude N 32°13'01" and a longitude W 103°08'57" approximately 10 miles northeast of Jal, Lea County, New Mexico on property owned by the Grobe Estate (reference *Figures 1 and 2*). There are no domestic or agricultural water wells or surface water bodies within 1,000 horizontal feet of the site. The site is associated with the Plains South Mattix crude oil transfer pump station and has historically been impacted from pump leaks and a sub-grade sump. During site soil delineation in December 2001, the vertical extent of soil impacted above the New Mexico Oil Conservation Division (NMOCD) remedial goals was determined to be approximately 50 feet below ground surface (bgs).

A two-inch groundwater monitoring well was installed during site soil delineation activities in December 2001 and is sampled on a quarterly basis. In addition, water and PSH level measurements were recorded during the quarterly sampling visits.

During the December 13, 2002 sampling event, a 0.01 foot thickness of phase separated hydrocarbons (PSH) was measured. Likewise, a sheen of oil was observed on the purge water during well purging, but has not been observed since.

The groundwater monitoring well was sampled on a quarterly basis during 2003 and samples submitted for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX) and/or total petroleum hydrocarbons (TPH). Analytical results for the sample collected during the first quarterly sampling event were non-detectable (ND) for all analytes at or above each analytes respective method detection limit (MDL). Analytical results for the samples collected during the second and third quarterly sampling events indicated analytes were detected at various concentrations; however, all reported concentrations were below the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. Analytical results for the final sampling event of 2003 were ND for all analytes at or above each analytes respective MDL. Groundwater levels rose during the first two quarters of 2003, dropped during the third quarter and remained steady during the fourth quarter, with the final measurement indicating a groundwater elevation of approximately 3,158.85 feet above mean sea level.

The groundwater monitoring well was sampled and water levels gauged on a quarterly basis in 2004. Analytical results indicated BTEX impacts were detected during the first two quarterly sampling events at 44 µg/L and 75 µg/L, respectively. The analytical results also indicated benzene was detected at 12.2 µg/L and 21.4 µg/L for the first two sampling events, respectively. These benzene concentrations are above the NMWQCC Standard's for groundwater. Analytical results for the final two quarterly sampling events of 2004 were reported as ND at or above each analytes respective method detection limit (MDL). Groundwater levels rose during the first three quarters of 2004 and dropped during the final quarter with the final measurement indicating a groundwater elevation of approximately 3,158.88 feet above mean sea level.

On August 9 and 10, 2004, the sump at the site was removed per the NMOCD's request. During the replacement of the sump, 28 yards of impacted soil were removed and transported to Lea Station Landfarm for treatment.

2.0 Field Activities

Site visits were made to the site on January 22, May 9, August 17 and November 15, 2005 to collect samples from the groundwater monitoring well. In addition, groundwater level measurements were obtained prior to purging the well to determine the depth to groundwater and to determine if PSH were present on the water surface.

3.0 Groundwater Gradient and PSH Thickness

The area groundwater gradient, according to the USGS Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico (A. Nicholson and A. Clebsch, 1961), is to the southeast. No PSH was detected on the water surface during the past year.

4.0 PSH Recovery

No PSH was detected on the water surface during the past year.

5.0 Groundwater Sampling

During 2005, groundwater monitoring well MW-1 was sampled on January 22, May 9, August 17 and November 15. The samples were submitted to an independent laboratory for the quantification of BTEX via EPA Method 8260b. In addition, the sample collected on January 22 was also analyzed for the presence of poly-aromatic hydrocarbons (PAHs) via EPA Method 8270C. The well was purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analysis.

6.0 Analytical Results

Analytical results for all four quarterly sampling events were ND for all analytes at or above each analytes respective method detection limit MDL (reference *Tables 2 and 3*).

7.0 Status and Recommendation

Based on field monitoring and analytical results collected during the past year and analyzed in conjunction with data collected during the past three years, the following recommendations are made in regards to the sampling protocol:

1) Continue to collect groundwater samples and water/PSH level data on a quarterly basis. The samples should be submitted for quantification of BTEX on a quarterly basis and PAHs on an annual basis.

2) Should PSH be detected in the groundwater monitoring well, semi-monthly visits shall be made to recover the PSH and sampling activities ceased until such time that PSH is no longer detected in the groundwater monitoring well.

3) The *Interim Remediation Plan* (January 2006), approved by the NMOCD on January 30, 2006 (reference *Appendix B*), will be implemented during the 1st or 2nd quarter of 2006.

EPI, on behalf of Plains requests formal written approval from the NMOCD to implement these proposed remedial activities.

FIGURES

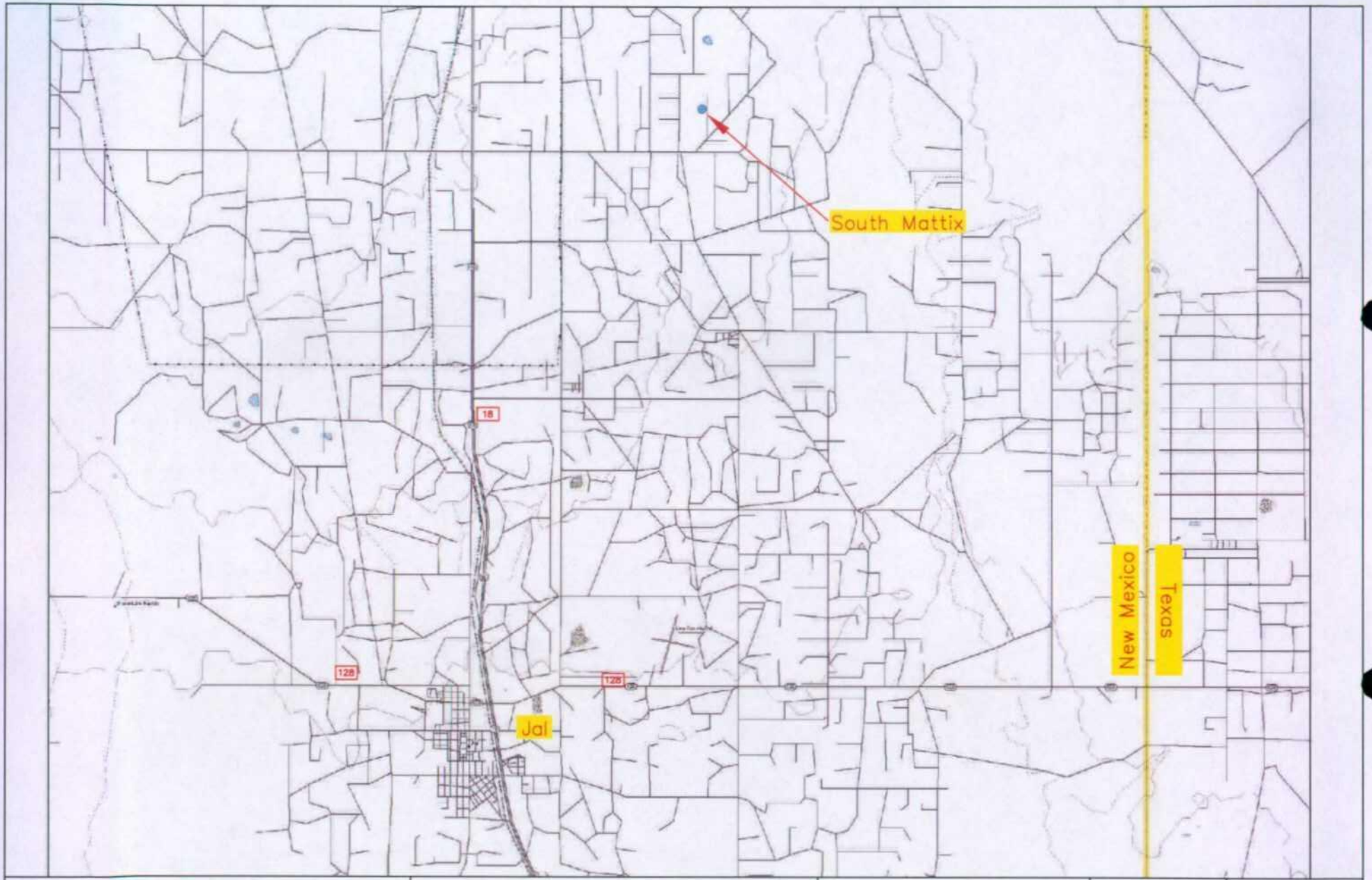

Figure 1
Area Map
Plains Pipeline, LP
South Mattix
2000–10410

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E
N 32° 13' 1.19" W 103° 08' 57.1"
Elevation: 3,245 feet amsl

DWG By: Iain Olness
June 2004

REVISED:
Nov. 2005

0 1.5 3.0
Miles

SHEET
1 of 1

N

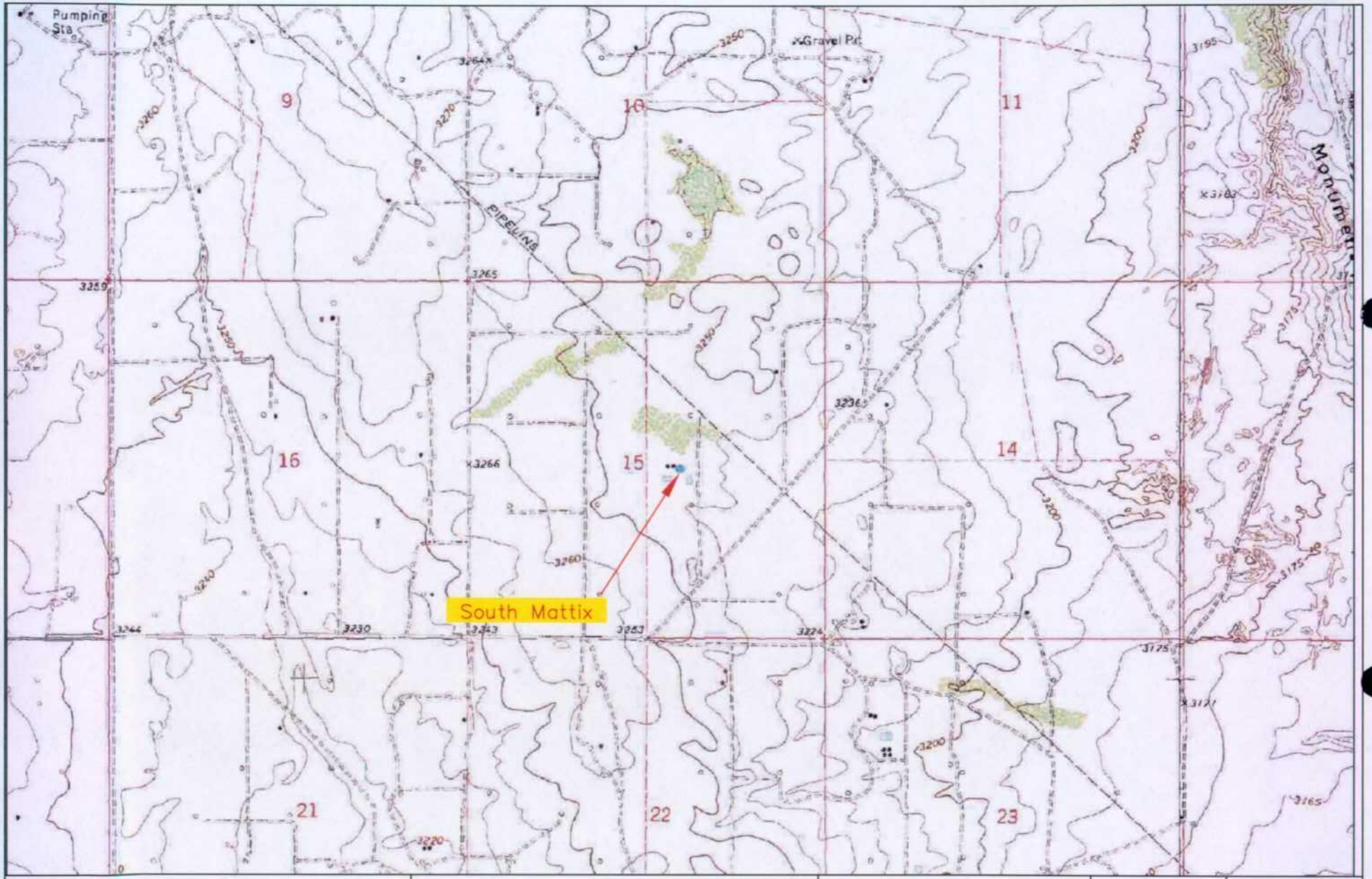

Figure 2
Site Location Map
Plains Pipeline, LP
South Mattix
2000–10410

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E
N 32° 13' 1.19" W 103° 08' 57.1"
Elevation: 3,245 feet amsl

DWG By: Iain Olness
June 2004

REVISED:
Nov. 2005

0 2,000 4,000
Feet

SHEET
1 of 1

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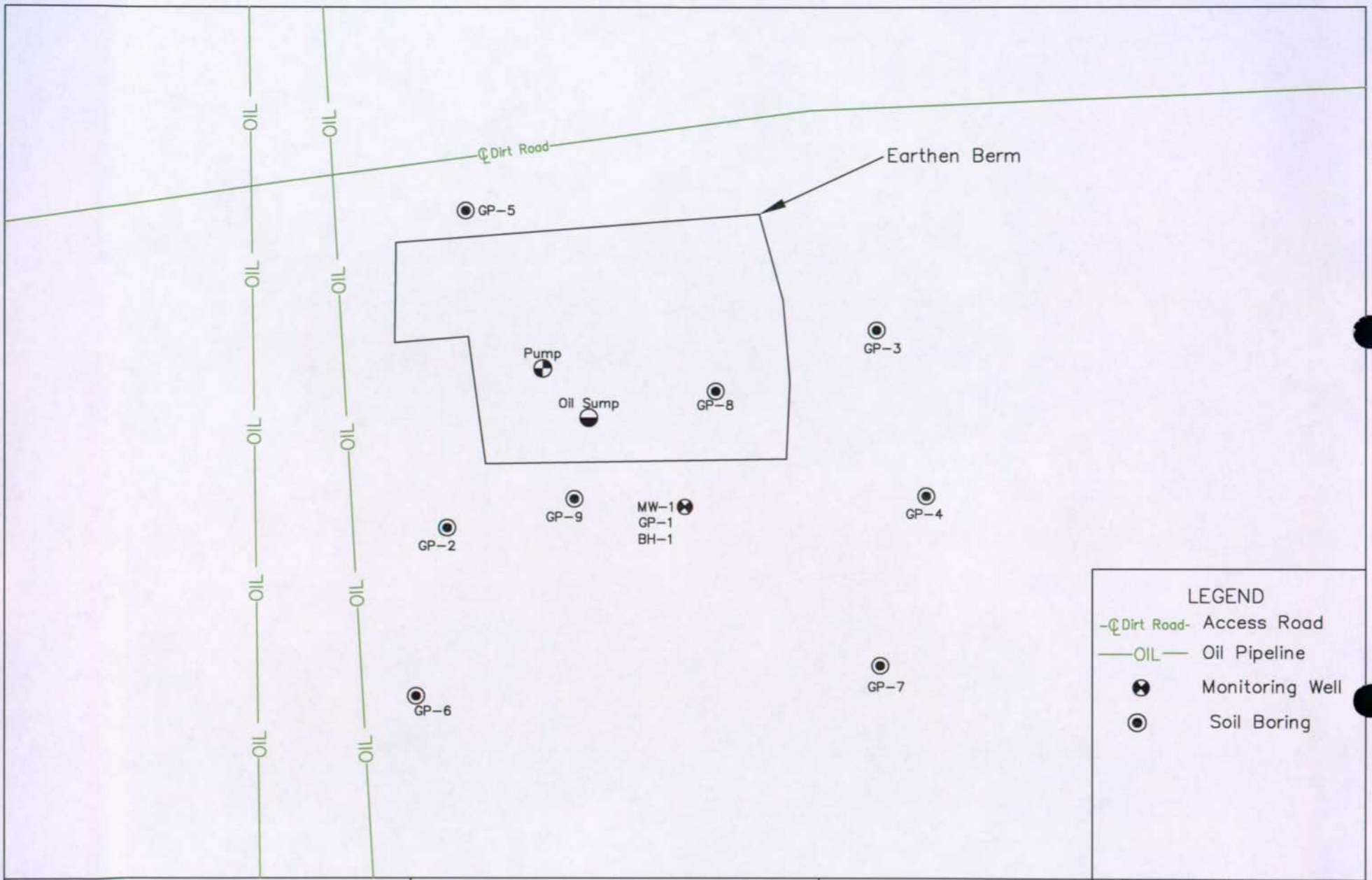

Figure 3
Site Map
Plains Pipeline, LP
South Mattix
2000-10410

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E
N 32° 13' 1.19" W 103° 08' 57.1"
Elevation: 3,245 feet amsl

DWG By: Iain Olness
June 2004

REVISED:
Nov. 2005

0 10 20
Feet

SHEET
1 of 1

N

Figure 4: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-1 from 12/28/01 through 12/31/05, Plains Pipeline, L.P. South Mattix Sump (Ref. #2000-10410), Lea County, New Mexico.

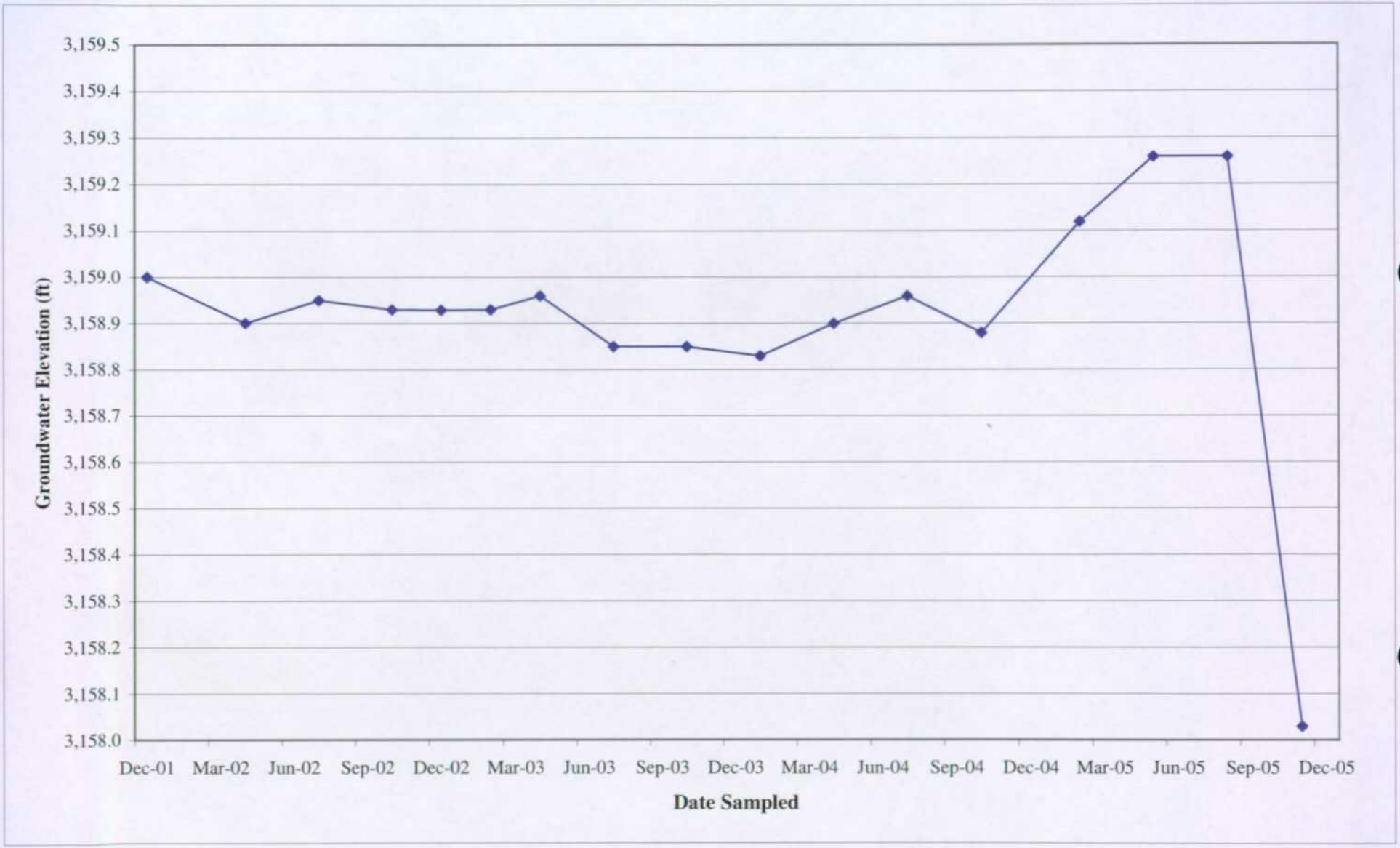

Figure 5: Hydrograph for Monitoring Well MW-1, Plains Pipeline, LP South Mattix Sump (Ref. #2000-10410), Lea County, New Mexico from 12/28/01 through 12/31/05.

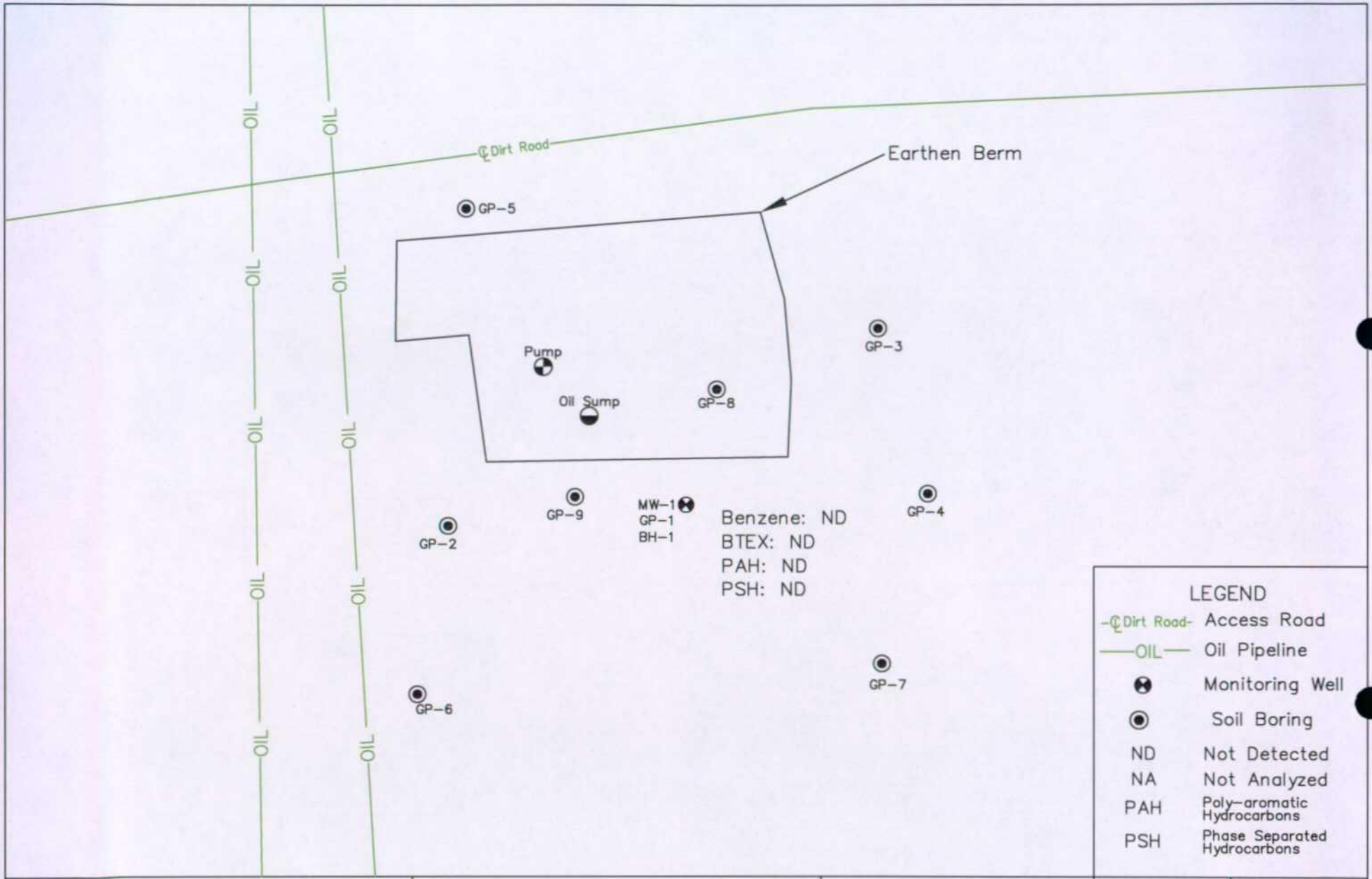

Figure 6 Contaminant Concentration Map – 02/22/05 Plains Pipeline, LP South Mattix 2000-10410	Lea County, New Mexico NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E N 32° 13' 1.19" W 103° 08' 57.1" Elevation: 3,245 feet amsl	DWG By: Iain Olness June 2004	REVISED: Nov. 2005	N
		0 10 20 Feet	SHEET 1 of 1	

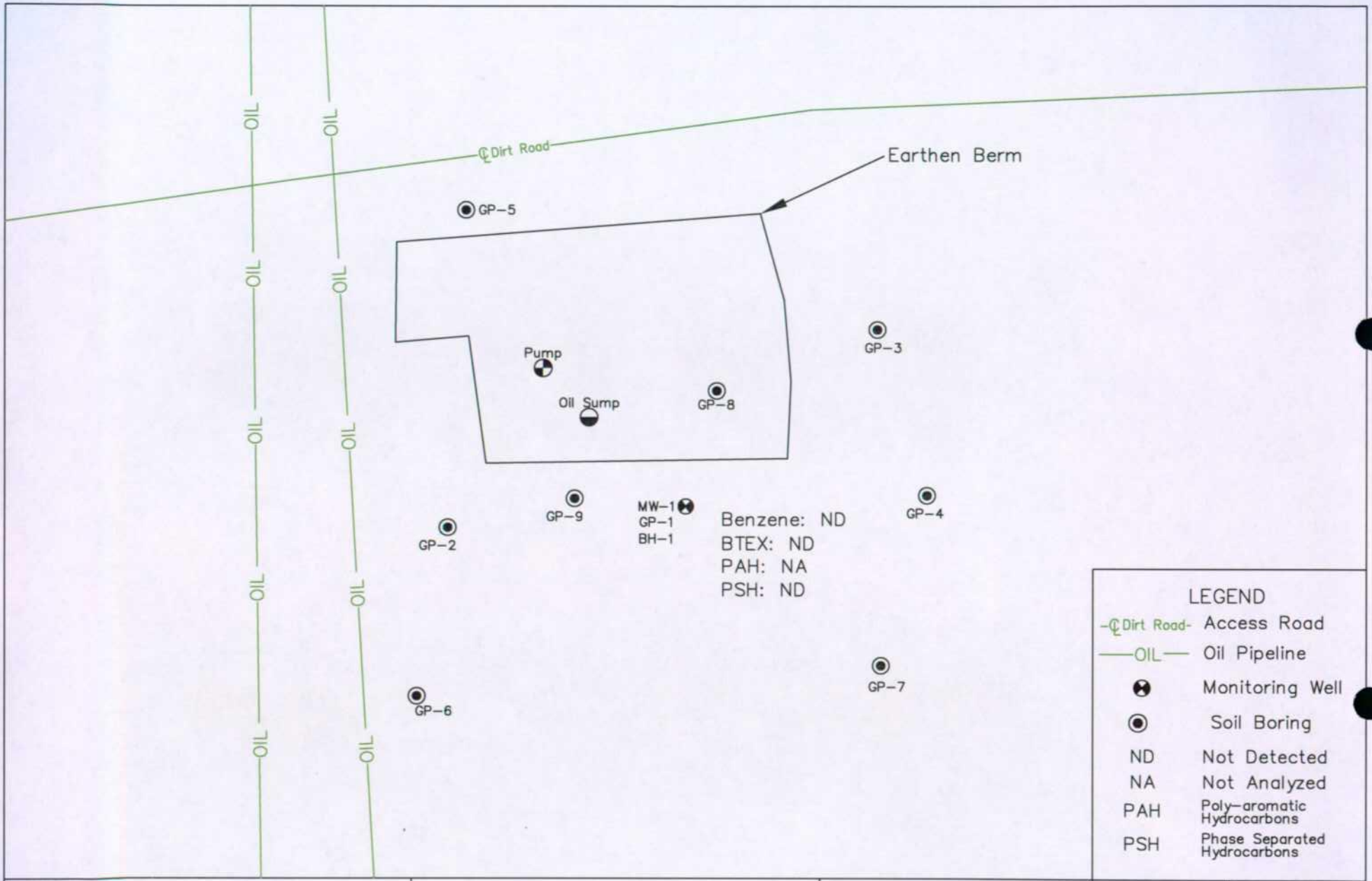

Figure 7
Contaminant Concentration Map – 05/09/05
Plains Pipeline, LP
South Mattix
2000-10410

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E
N 32° 13' 1.19" W 103° 08' 57.1"
Elevation: 3,245 feet amsl

DWG By: Iain Olness
June 2004

REVISED:
Nov. 2005

SHEET
1 of 1

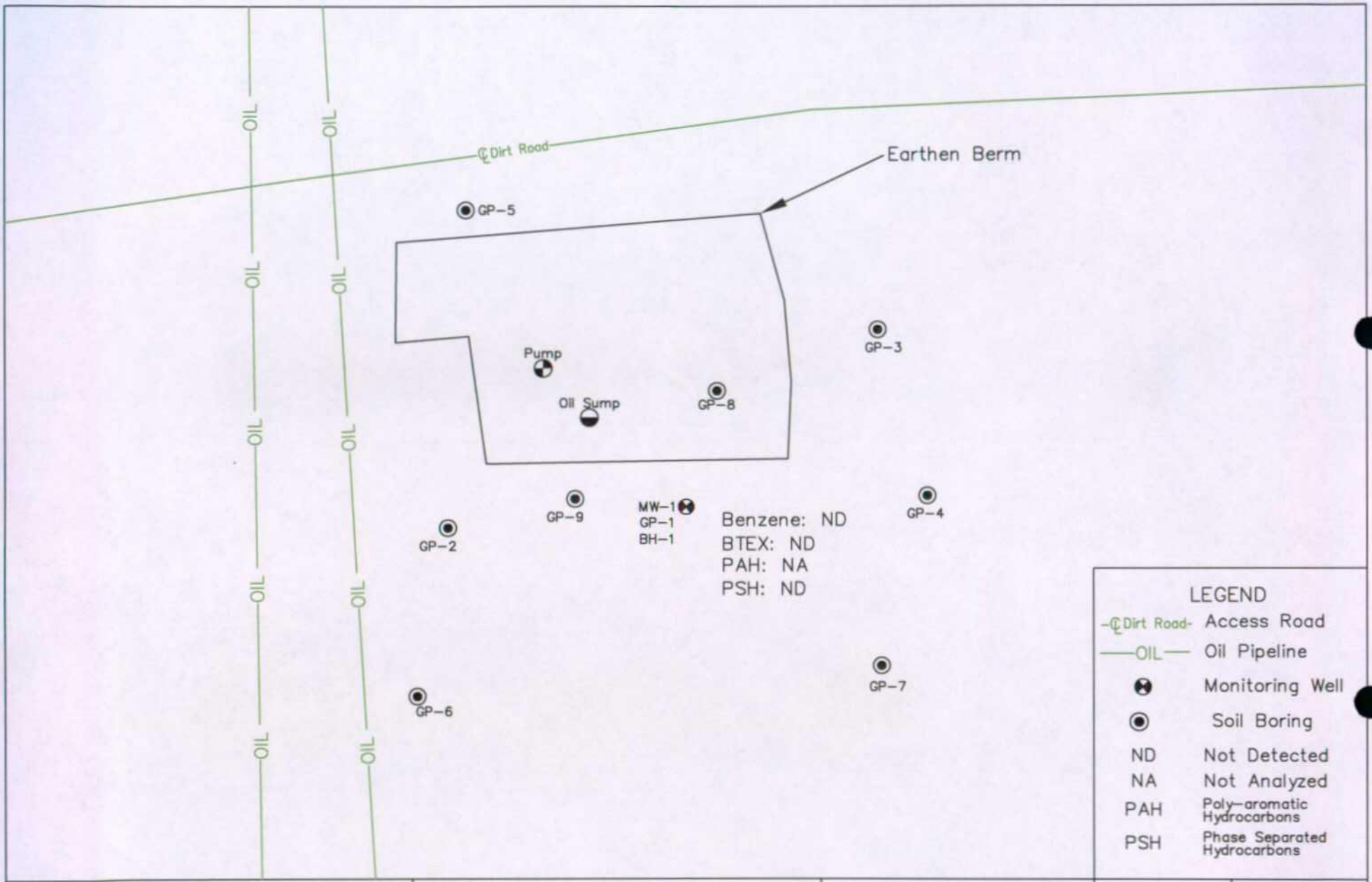

Figure 8 Contaminant Concentration Map – 08/17/05 Plains Pipeline, LP South Mattix 2000–10410	Lea County, New Mexico NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E N 32° 13' 1.19" W 103° 08' 57.1" Elevation: 3,245 feet amsl	DWG By: Iain Olness June 2004	REVISED: Nov. 2005	N
		0 10 20 Feet	SHEET 1 of 1	

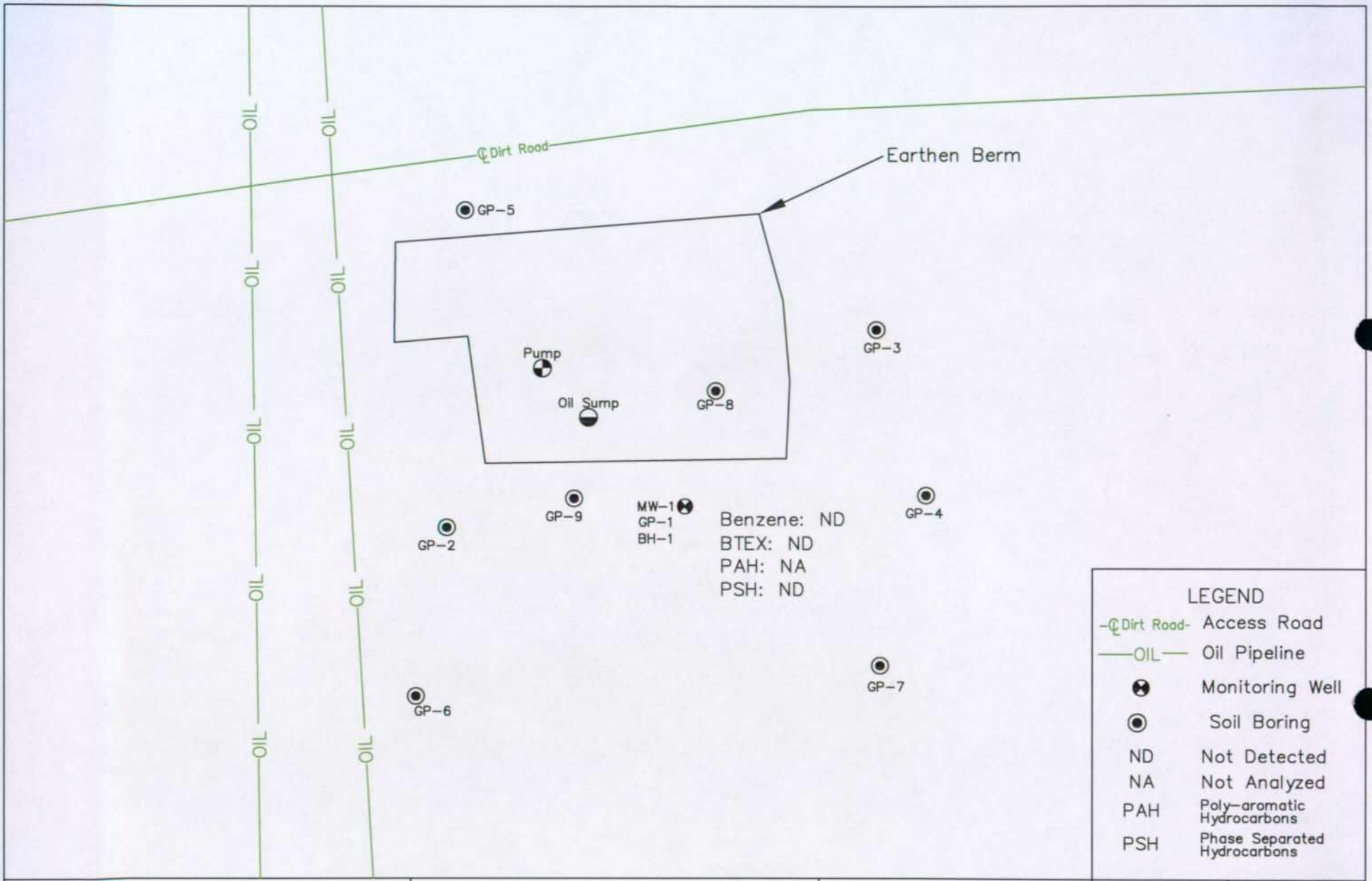

Figure 9
Contaminant Concentration Map – 11/15/05
Plains Pipeline, LP
South Mattix
2000-10410

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 15, T24S, R37E
N 32° 13' 1.19" W 103° 08' 57.1"
Elevation: 3,245 feet amsl

DWG By: Iain Olness
June 2004

REVISED:
Nov. 2005

0 10 20
Feet

SHEET
1 of 1

N

TABLES

TABLE 1

RELATIVE GROUNDWATER ELEVATIONS AND PHASE SEPARATED HYDROCARBON THICKNESSES

South Mattix - Ref #2000-10410

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MW-1	28-Dec-01	3,245	- -	86.00	3,159.00	
	30-Apr-02		- -	86.10	3,158.90	- -
	9-Jul-02		- -	86.05	3,158.95	- -
	5-Oct-02		- -	86.07	3,158.93	- -
	13-Dec-02		86.07	86.08	3,158.93	0.01
	17-Feb-03		- -	86.07	3,158.93	- -
	2-Apr-03		- -	86.04	3,158.96	- -
	25-Jul-03		- -	86.15	3,158.85	- -
	1-Oct-03		- -	86.15	3,158.85	- -
	27-Jan-04		- -	86.17	3,158.83	- -
	21-Apr-04		- -	86.10	3,158.90	- -
	14-Jul-04		- -	86.04	3,158.96	- -
	20-Oct-04		- -	86.12	3,158.88	- -
	22-Feb-05		- -	85.88	3,159.12	- -
	9-May-05		- -	85.74	3,159.26	- -
	17-Aug-05		- -	85.74	3,159.26	- -
	15-Nov-05		- -	86.97	3,158.03	- -

** = Top of casing elevation set from USGS Topographical map*

*** Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)*

- - = Not detected

If cell is blank, the well was not gauged

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (BTEX & TPH)

PLAINS ALL AMERICAN PIPELINE, L.P.
SOUTH MATTIX - REF. #2000-10410
LEA COUNTY, NEW MEXICO

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Gasoline (mg/L)	TPH as Diesel (mg/L)	Total TPH (mg/L)
MW-1	28-Dec-01	2	1	1	7	2	9	46	655	<3	<3	<6
	3-Apr-02	**26.1**	26.0	10.1	25.5	13.2	38.7					
	9-Jul-02	**26.1**	13.4	5.93	16.7	7.48	24.2	38	667			
	5-Oct-02	**16**	5.82	2.88	7.89	2.54	10.4					
	13-Dec-02	**10.2**	<1	1.06	5.18	<1	5.18					
	17-Feb-03	<1	<1	<1	<1	<1	<2					
	2-Apr-03	7.63	<1	<1	4.54	1.30	5.84					
	25-Jul-03	4.68	3.07	1.41	3.32	1.63	4.95			<0.5	<0.5	<1
	1-Oct-03	<1	<1	<1	<1	<1	<2					
	27-Jan-04	**12.2**	9.57	4.19	12.3	5.71	18.0					
	21-Apr-04	**21.4**	21.1	6.78	17.2	8.80	26.0					
	14-Jul-04	<1	<1	<1	<2	<1	<3					
	20-Oct-04	<1	<1	<1	<2	<1	<3					
	22-Mar-05	<1	<1	<1	<2	<1	<3					
	9-May-05	<1	<1	<1	<2	<1	<3					
	17-Aug-05	<1	<1	<1	<2	<1	<3					
	15-Nov-05	<1	<1	<1	<2	<1	<3					
NMOCD Remedial Thresholds		**10**	**750**	**750**			**620**	**250**	**1,000**			

Red, bolded values are in excess of the NMOCD Remediation Thresholds or Other Standards for Domestic Water Supply.

If cell is blank, that parameter was not analyzed

TABLE 3

CONCENTRATIONS OF SEMI-VOLATILES IN GROUNDWATER

PLAINS ALL AMERICAN PIPELINE, L.P.
SOUTH MATTIX - REF. #2000-10410
LEA COUNTY, NEW MEXICO

Monitor Well	Date Sampled	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(g,h,i)perylene (ug/L)	Benzo(j,k)fluoranthene (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indenol(1,2,3-cd)pyrene (ug/L)	1-Methylnapthlene (ug/L)	2-Methylnapthlene (ug/L)	Naphthalene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)
MW-1	14-Jul-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
	22-Mar-05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
New Mexico Water Quality Commission Groundwater Standards						0.7									30				

NA = Not Analyzed

APPENDICES

APPENDIX A

Analytical Reports
and
Chain-of-Custody Forms

Sample Analysis Case Narrative

Client: Environmetal Plus, Inc. **Project ID:** 2000-10410

Attn: Iain Olness

for Sample #'s: 165026

Analyzed by AnalySys, Inc.

Final Review Date: 4/20/2005 **By:** _____ (D. Wagner)

Case Narrative:

The recoveries of several PAH compounds in the Matrix Spikes (MS and/or MSD) for the analytical batch that contained sample # 165026 were outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for each compound indicating the analytical method was operating correctly and in control. When viewed within the context of the passing LCS data, this deviation in spike recovery should have minimal impact on data usability.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: *2100 Ave. O*
Eunice, NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 165026 **Report Date:** 04/11/05
Project ID: 2000-10410
Sample Name: *SMO32205MW-1*
Sample Matrix: water
Date Received: 03/24/2005 **Time:** 09:25
Date Sampled: 03/22/2005 **Time:** 14:28

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	03/29/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/07/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		03/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/28/05	8260b	---	3.3	96.7	96	95
Ethylbenzene	<1	µg/L	1	<1	03/28/05	8260b	---	5.5	99.5	97.3	103.1
m,p-Xylenes	<2	µg/L	2	<2	03/28/05	8260b	---	5.2	97.3	97	98.6
o-Xylene	<1	µg/L	1	<1	03/28/05	8260b	---	6.2	108.9	105.1	109.8
Toluene	<1	µg/L	1	<1	03/28/05	8260b	---	7.2	105.3	109.7	100.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	9.2	56.3	104.4	34.4
Acenaphthylene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	7.2	57.8	111.4	36.8
Anthracene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	1.4	50	110.5	33.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	0.3	12.3	109.8	35.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	13.7	4	104	32.2
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	17	4.5	113.9	37.7
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	14.2	3	109.4	35.8
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	16.5	4.4	102.2	34.4
Chrysene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	7.4	15.3	105	44.6
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	12.9	3.7	114.1	43.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	5.3	39.4	110.6	38.3
Fluorene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	5.5	59.2	105.7	33.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	S,M	10.5	2.8	109.5	35.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2000-10410
Sample Name: SMO32205MW-1

Report#/Lab ID#: 165026
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Naphthalene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	3.3	52.5	107.3	38
Phenanthrene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	0.2	56.5	108	36
Pyrene	<0.05	µg/L	0.05	<0.05	04/07/05	610 & 8270c	---	8.7	37.1	104.6	35.1

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2000-10410	**Report#/Lab ID#:** 165026
Attn: Iain Olness	**Sample Name:** SMO32205MW-1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	53.5	30-110	---
Nitrobenzene-d5	610 & 8270c	55.3	12-110	---
Terphenyl-d14	610 & 8270c	47.9	25-110	---
1,2-Dichloroethane-d4	8260b	107	74-124	---
Toluene-d8	8260b	98.2	89-115	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 165026 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2000-10410
Sample Name: SMO32205MW-1

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzo[a]pyrene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Benzo[b]fluoranthene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Benzo[g,h,i]perylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Benzo[j,k]fluoranthene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Indeno[1,2,3-cd]pyrene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

Notes:

12 '10

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 *2209 N. Padre Island Dr., Corpus Christi, TX 78408*
512-444-5896 FAX: 512-447-4766

Company Name:	Environmental Plus, Inc.
EPI Project Manager:	Iain Olness
Mailing Address:	P.O. BOX 1558
City, State, Zip:	Eunice New Mexico 88231
EPI Phone#/Fax#:	505-394-3481 / 505-394-2601
Client Company:	Plains All American
Facility Name:	South Mattix
Project Reference:	2000-10410
Project Location:	UL-G, Sec. 15, T 24 S, R 37 E
EPI Sampler Name:	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
1	165026	SM032205MW-1	G	6	X						X	X		22-Mar	14:28	X							X				
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Sampler Relinquished: Iain Olness	Date 3/23/04 Time 1630	Received By:	E-mail results to: iolness@hotmail.com and cjreynolds@paalp.com
Relinquished by:	Date 3/24/05 Time 0925	Received By: (lab staff)	REMARKS:
Delivered by:	Sample Cool & Intact Yes No	Checked By:	

T: 2.5° C

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 167103 **Report Date:** 05/19/05
Project ID: 2000-10410
Sample Name: SM032205MW-1
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 14:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2000-10410	**Report#/Lab ID#:** 167103
Attn: Iain Olness	**Sample Name:** SM032205MW-1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	108	89-115	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 *2209 N. Padre Island Dr., Corpus Christi, TX 78408*
512-444-5896 FAX: 512-447-4766

Company Name:	Environmental Plus, Inc.
EPI Project Manager:	Iain Olness
Mailing Address:	P.O. BOX 1558
City, State, Zip:	Eunice New Mexico 88231
EPI Phone#/Fax#:	505-394-3481 / 505-394-2601
Client Company:	Plains All American
Facility Name:	South Mattix
Project Reference:	2000-10410
Project Location:	UL-G, Sec. 15, T 24 S, R 37 E
EPI Sampler Name:	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH				
167103 1	SM032205MW-1	G	4	X						X	X		9-May	14:55	X											
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Sampler Relinquished: Iain Olness	Date 5/11/05 Time 1500	Received By: GBdell	5/12/05 1300
Relinquished by:	Date / Time	Received By: (lab staff)	
Delivered by:	Sample Cool & Intact Yes No	Checked By:	

E-mail results to: iolness@hotmail.com and cjreynolds@paalp.com
REMARKS:

T. > 8° C

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 170107 **Report Date:** 09/01/05
Project ID: 2000-10410
Sample Name: MW-1
Sample Matrix: water
Date Received: 08/23/2005 **Time:** 11:20
Date Sampled: 08/17/2005 **Time:** 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		08/26/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/26/05	8260b	---	1.4	90.6	97.6	91.5
Ethylbenzene	<1	µg/L	1	<1	08/26/05	8260b	---	1.7	101	104.4	101.4
m,p-Xylenes	<2	µg/L	2	<2	08/26/05	8260b	---	1.4	100.8	105.4	102.1
o-Xylene	<1	µg/L	1	<1	08/26/05	8260b	---	0.8	93	109	105.8
Toluene	<1	µg/L	1	<1	08/26/05	8260b	---	2	97.7	104.8	98

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2000-10410	**Report#/Lab ID#:** 170107
Attn: Iain Olness	**Sample Name:** MW-1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.8	70-130	---
Toluene-d8	8260b	106	80-127	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 *2209 N. Padre Island Dr., Corpus Christi, TX 78408*
512-444-5896 FAX: 512-447-4766

Company Name:	Environmental Plus, Inc.
EPI Project Manager:	Iain Olness
Mailing Address:	P.O. BOX 1558
City, State, Zip:	Eunice New Mexico 88231
EPI Phone#/Fax#:	505-394-3481 / 505-394-2601
Client Company:	Plains All American
Facility Name:	South Mattix
Project Reference:	2000-10410
Project Location:	UL-G, Sec. 15, T 24 S, R 37 E
EPI Sampler Name:	George Blackburn

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
1	170107	MW-1	G	4	X						X	X		17-Aug-05	14:30	X										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Sampler Relinquished: [signature] Date 8.22.05 Time 3:30 Received By: [signature]

Relinquished by: [signature] Date 8/22/05 Time 1630 Received By: (lab staff) [signature] 8/23/05 11:20

Delivered by:

Sample Cool & Intact: Yes (circled) / No

Checked By:

E-mail results to: iolness@envplus.net and cjreynolds@paalp.com

REMARKS:

T=5.2°C

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 173921 **Report Date:** 11/29/05
Project ID: 2000-10410 South Mattix
Sample Name: MW-1
Sample Matrix: water
Date Received: 11/22/2005 **Time:** 10:30
Date Sampled: 11/15/2005 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/23/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/23/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	<1	µg/L	1	<1	11/23/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	<2	µg/L	2	<2	11/23/05	8260b	J	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/23/05	8260b	---	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/23/05	8260b	---	1.5	109	113.7	156.9

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2000-10410 South Mattix	**Report#/Lab ID#:** 173921
Attn: Iain Olness	**Sample Name:** MW-1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.6	70-130	---
Toluene-d8	8260b	101	80-127	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 173921 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2000-10410 South Mattix
Sample Name: MW-1

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 *2209 N. Padre Island Dr., Corpus Christi, TX 78408*
512-444-5896 FAX: 512-447-4766

Company Name:	Environmental Plus, Inc.
EPI Project Manager:	Iain Olness
Mailing Address:	P.O. BOX 1558
City, State, Zip:	Eunice New Mexico 88231
EPI Phone#/Fax#:	505-394-3481 / 505-394-2601
Client Company:	Plains All American
Facility Name:	South Mattix
Project Reference:	2000-10410
Project Location:	UL-G, Sec. 15, T 24 S, R 37 E
EPI Sampler Name:	George Blackburn

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH			
1	173921	MW-1	G	4	X						X	X		15-Nov-05	7:00	X										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Sampler Relinquished:	Date / Time	Received By: Roger Rollins	E-mail results to: iolness@envplus.net and cjreynolds@paalp.com
Relinquished by: Jaron Stegemoller	Date 11-21-05 Time 16:00	Received By: (lab staff) ASI 11-22-05 10:30 Am	REMARKS:
Delivered by:	Sample Cool & Intact (Yes) No	Checked By:	

Temp: 2.1°

APPENDIX B

NMOCD Approval Letter for

Soil Characterization
and
Interim Remediation Plan (January 2006)

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

January 30, 2006

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

RE: Soil Characterization Report and Interim Remediation Plan
Prepared by Environmental Plus, Inc. and Dated January 2006
Plains All American Pipeline, L.P. South Mattix Release Site
Plains Reference 2000-10410 Located in the
SW/4 NE/4 of Section 15, Township 24 South, Range 37 East
NMPM, Lea County New Mexico
NMOCD Reference Number 1R-0091

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has reviewed the above plan submitted by Plains All American Pipeline, L.P. (Plains). This plan is hereby approved with the following understandings and conditions:

1. Plains will complete an excavation, five feet below ground surface, in the area outlined in Figure 9 or the plan.
2. Samples will be collected from the sidewalls of such excavation. Such samples shall be analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and xylene (BTEX). Sample analyses results shall be submitted to the NMOCD Santa Fe office prior to the installation of any impermeable barrier in the bottom of the excavation or backfilling operations.
3. Upon further approval by the NMOCD, Plains will install an impermeable barrier in the base of the excavation to prevent further migration of contaminants. Material to be used for this barrier shall be proposed in the report referred to in #2 above.
4. Upon further NMOCD approval, Plains will backfill the excavation with clay and caliche.
5. Groundwater monitoring shall continue at this site.

If you have any questions, contact me at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

Copy: Iain Olness, EPI