

AP - 41

ANNUAL MONITORING REPORT

YEAR(S):

2004



PLAINS
ALL AMERICAN

March 31, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Sante 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 impact 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:

Hugh Gathering

Section 11, Township 21S, Range 37E, of Lea County

EPI prepared this document and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents 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
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



2004 ANNUAL MONITORING REPORT

Hugh Gathering 090402
Ref. # 2002-10235

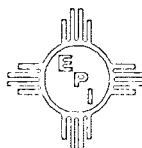
SE¼ of the SE¼ of Section 11, R37E, T21S
Latitude 32°29'11.007"N and Longitude 103°07'33.864"W
Elevation ~3,425'amsl

3 miles northeast of Eunice, Lea County, New Mexico

March 2005

Prepared by

Environmental Plus, Inc.
2100 West Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601
(enviplus1@aol.com)



STANDARD OF CARE

Environmental Assessment and Remediation Report

Hugh Gathering
Ref. # 2002-10235

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.

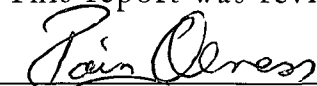
This report was prepared by:



Patrick W. McCasland

31 March 2005
Date

This report was reviewed by:



Iain Olness, PG

31 March 2005
Date

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Jeff Dann	Environmental Director	Plains	333 Clay Street Suite #1600, Houston, TX 77002	jpdann@paalp.com
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NMOCD - New Mexico Oil Conservation Division
 Plains - Plains Pipeline L.P.
 EPI - Environmental Plus, Inc.

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1.0 BACKGROUND

This site is located in the SE¼ of the SE¼ of Section 11, Range 37 East, Township 21 South at a latitude of 32°29'11.007"N and a longitude of 103°07'33.864"W approximately 3 miles northeast of Eunice, Lea County, New Mexico on property owned by Jimmy Bryant. Area and site maps are included as Figures 1-3. The estimated 50 barrel crude oil leak was attributed to internal/external corrosion and occurred on September 4, 2002 in the 6" steel pipeline with no oil recovered. The line was subsequently replaced and tested. Near surface impacted soil was disposed of in an NMOCD approved landfarm and the site soil and groundwater impacts delineated. Approximately 100 square feet (10' X 10') of surface area was affected during the initial release. There are no surface water bodies or domestic or agricultural water wells within 1,000 horizontal feet of the site. During site soil delineation in September 2002, crude oil (i.e., phase separated hydrocarbons (PSH)) was found to have impacted the groundwater measured at approximately 60 feet below ground surface ('bgs'). Plains Pipeline purchased the assets from Link Energy (previously EOTT Energy) in April 2004 and is now managing the environmental monitoring and remediation activities.

2.0 FIELD ACTIVITIES PRIOR TO 2004

A single 2" PVC cased monitor well (MW1) was installed during soil delineation activities in September 2002 to evaluate PSH thickness and to initiate PSH recovery. In June 2003, monitor wells MW2, MW3 and MW4 were installed and in July 2003, MW5 was installed. In June 2003, weekly manual recovery of PSH began at monitor wells MW1, MW2 and MW4. In August 2003, Link Energy began deploying a gasoline powered PSH recovery system on a daily basis. Site surveillance was conducted daily to monitor water and PSH levels, deploy the trailer mounted product recovery system, and manage produced fluids.

3.0 2004 FIELD ACTIVITIES

Site surveillance continued in 2004 with daily deployment of the trailer mounted product recovery system, monthly monitoring of water and PSH levels and quarterly sampling of monitor wells not impacted with PSH. Also in 2004, with approval from the NMOCD, monitor wells MW6, MW7, MW8, MW9, MW10, MW11 and MW12 were installed to further delineate the horizontal extents of PSH and dissolved phase impacts.

4.0 GROUNDWATER GRADIENT AND PSH THICKNESS

The area groundwater gradient, as illustrated in Figures 3 and 4, continues to trend to the southeast and was determined using measurements from the site monitoring wells. Stabilized PSH thickness in monitor well MW1, near the leak origin, declined from 7.77-feet in January 2002, to 4.47-feet in October 2003 and 3.16-feet in December 2004. Water and PSH levels are illustrated in Figures 9 and 10.

5.0 PSH RECOVERY

Product recovery activities began in September of 2002, initially by manual bailing followed in August of 2003 with the daily deployment of a gasoline powered PSH recovery system. The recovery system is shutdown for at least 48 hours prior to collecting water and PSH levels to ensure stabilized measurements. As of December 2004, approximately 600 gallons of crude oil have been recovered and reintroduced into the Plains pipeline system. Monitoring wells MW1, MW2, MW3, MW4, MW8, MW9, and MW10 are impacted with PSH and are being used as PSH recovery wells. An automated eductor type recovery system, being used successfully at other Plains sites, will be installed within a lined and bermed area central to the site and secured with a chain link fence with a lockable gate. Electrical power will be provided by a propane fueled 8,000 kilowatt generator designed for continuous operation. The system will be checked daily until the system and recovery rates have stabilized and twice weekly thereafter.

6.0 2004 GROUNDWATER SAMPLING

Monitoring wells MW1, MW2, MW3, MW4, MW8, MW9, and MW10 were not sampled during 2004 due to the presence of PSH. Monitoring well MW5 was sampled on May 20, July 26, October 11, and December 28, 2004. Monitoring wells MW6, MW7, and MW11 were sampled on July 26, October 11, and December 28, 2004. Monitoring well MW12 was sampled on December 3, 2004. Monitoring well MW6 was installed in April of 2004, monitoring wells MW7 and MW11 in June 2004, and monitoring well MW12 in December 2004. Prior to sampling, each monitoring well was purged at least 3 well volumes or dry.

7.0 ANALYTICAL RESULTS

The New Mexico Water Quality Control Commission (WQCC) groundwater standards are as follows: benzene-10.0 microgram per Liter ($\mu\text{g/L}$), ethylbenzene-750 $\mu\text{g/L}$, total xylene-620 $\mu\text{g/L}$, and toluene-750 $\mu\text{g/L}$. Groundwater samples collected from monitoring well MW5 exceeded the WQCC benzene standard during each 2004 sampling event and, although detected, toluene, ethylbenzene, and total xylene did not exceed the WQCC standards. Analytical results for perimeter monitoring wells MW6 (176-feet west northwest of the leak origin), MW7 (151-feet south of the leak origin), MW 11 (103-feet north of the leak origin), and MW12 (225-feet southeast of the leak origin) reported BTEX concentrations less than the laboratory method detection limits for each parameter.

During the July 26, 2004 sampling event, samples were collected from monitoring wells MW5, MW6, MW7, and MW11 and submitted to the laboratory for polynuclear aromatic hydrocarbons (PAH) analyses. The analytical results from monitoring well MW5 were 31.96 $\mu\text{g/L}$ PAH and exceeded the WQCC PAH groundwater standard of 30.0 $\mu\text{g/L}$. The PAH results for monitoring wells MW6, MW7, and MW11 were reported as not detected. The analytical results are summarized in Table 2 and illustrated in Figures 16-27. The laboratory analytical reports are included in Appendix A.

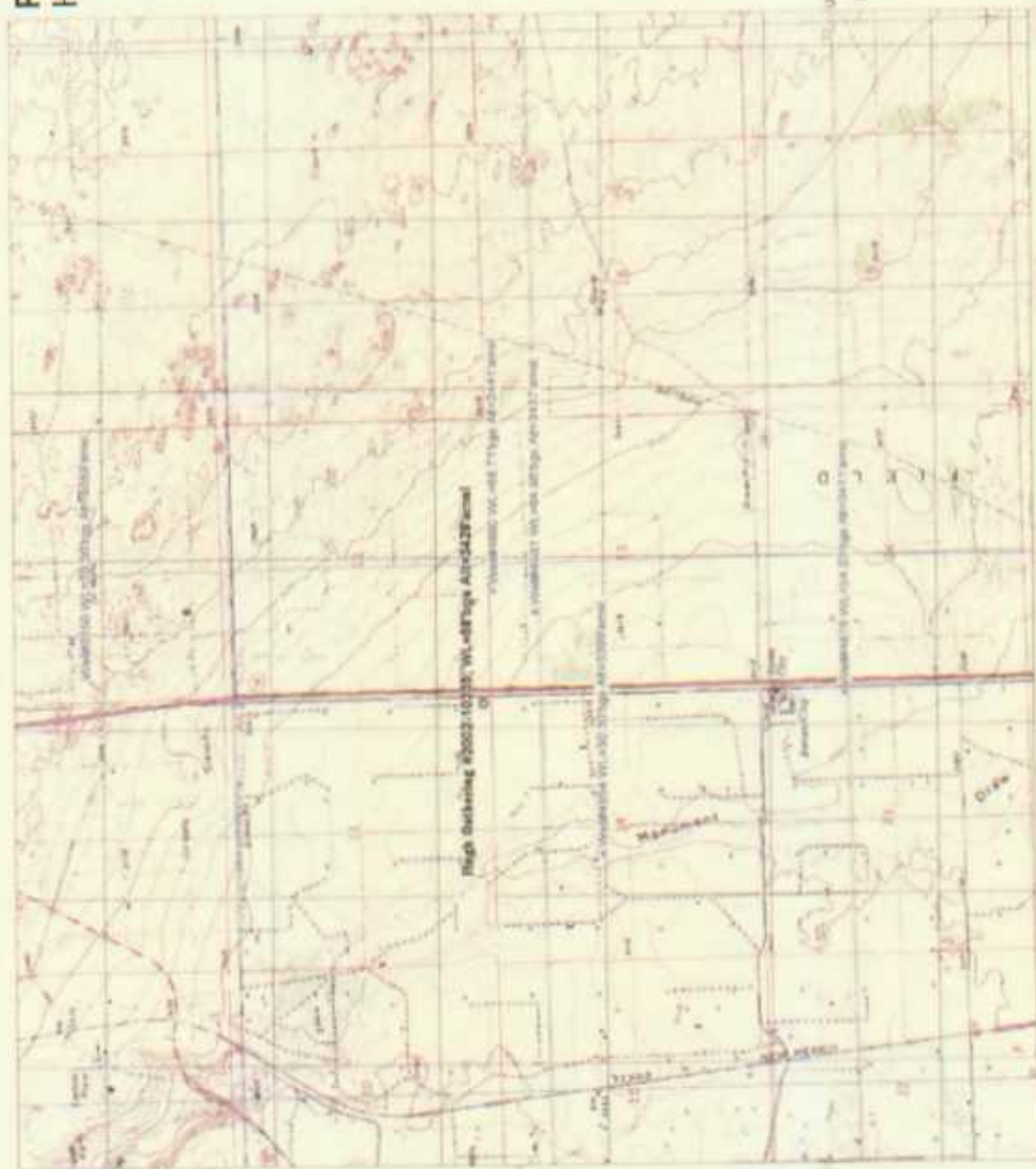
8.0 STATUS AND RECOMMENDATIONS

In accordance with NMAC 19.15.1.19 (Rule 19), a combined Stage I and Stage II Abatement Plan (Abatement Plan) has been submitted to the NMOCD for approval. The Abatement Plan proposes to remove impacted soil to 10-feet bgs, permanently isolate the remaining impacted soil below 10-feet bgs with an impermeable oversized barrier, and backfill with clean soil. The dissolved phase hydrocarbon plume is bounded by the 4-perimeter monitoring wells and the current array of interior monitoring wells are being used to recovery PSH. It is recommended that:

- Continue current groundwater sampling at quarterly intervals;
- Analyze PAH at least annually;
- Measure groundwater and PSH levels semi-monthly during PSH recovery activities; and
- Install the proposed automated PSH recovery system.

FIGURES

**Plains Pipeline L.P.
HUGH GATHERING
#2002-10235
UL-P SECII
AND
UL-M SEC12
T2IS R37E
LEA CO. NM**



SCALE 1:40,000



FEET

UNIVERSAL TRANSVERSE MERCATOR
UTM ZONE
NAD 83 (NAD 83) (NEW MEXICO)

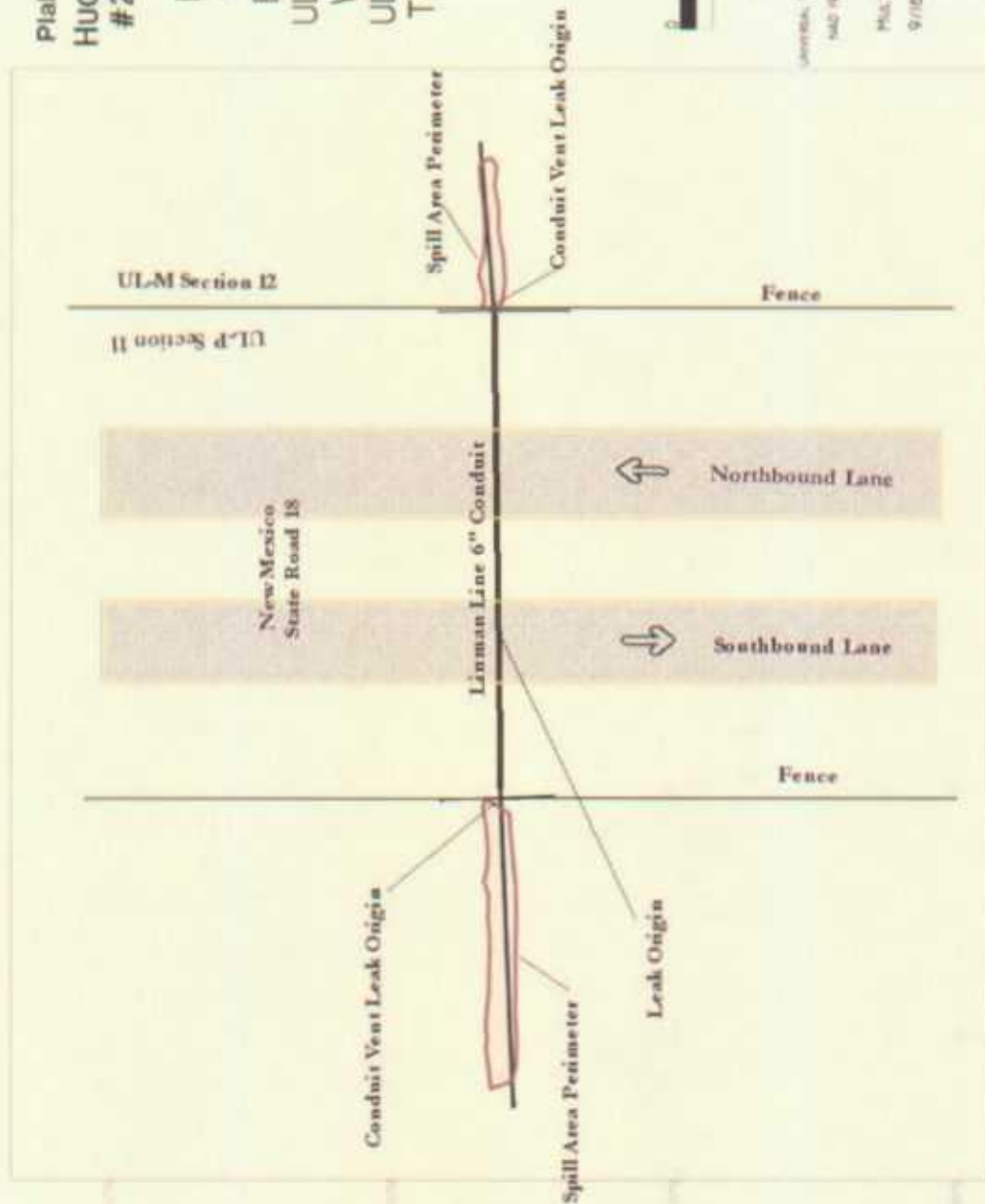
MULTIPLE FILES
9/15/2002



Figure 1 - Hugh Gathering Area Map

Plains Pipeline L.P.
HUGH GATHERING
#2002-10235

NMSR 18
CONDUIT
EASTSIDE
UL-M SEC12
WESTSIDE
UL-P SEC II
T2IS R37E



SCALE 1:700
0 80.00
FEET

AMERICAN TRANSDUCING INSTRUMENTS
13 NORTH
MAD 1927 (08/19/1996 USE)

MULTIPLE FILES
9/16/2002



Figure 2 - Hugh Gathering Site Map

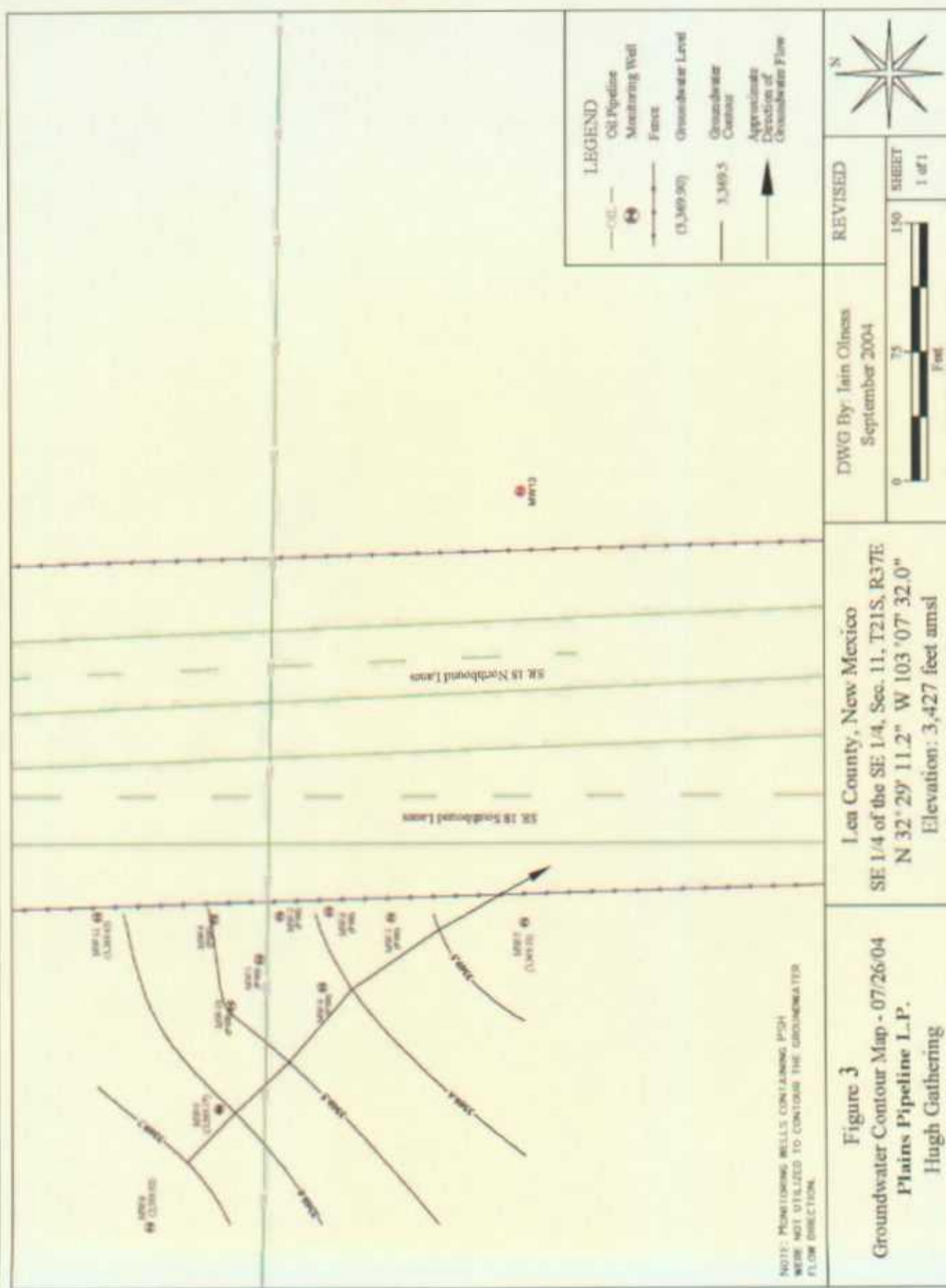
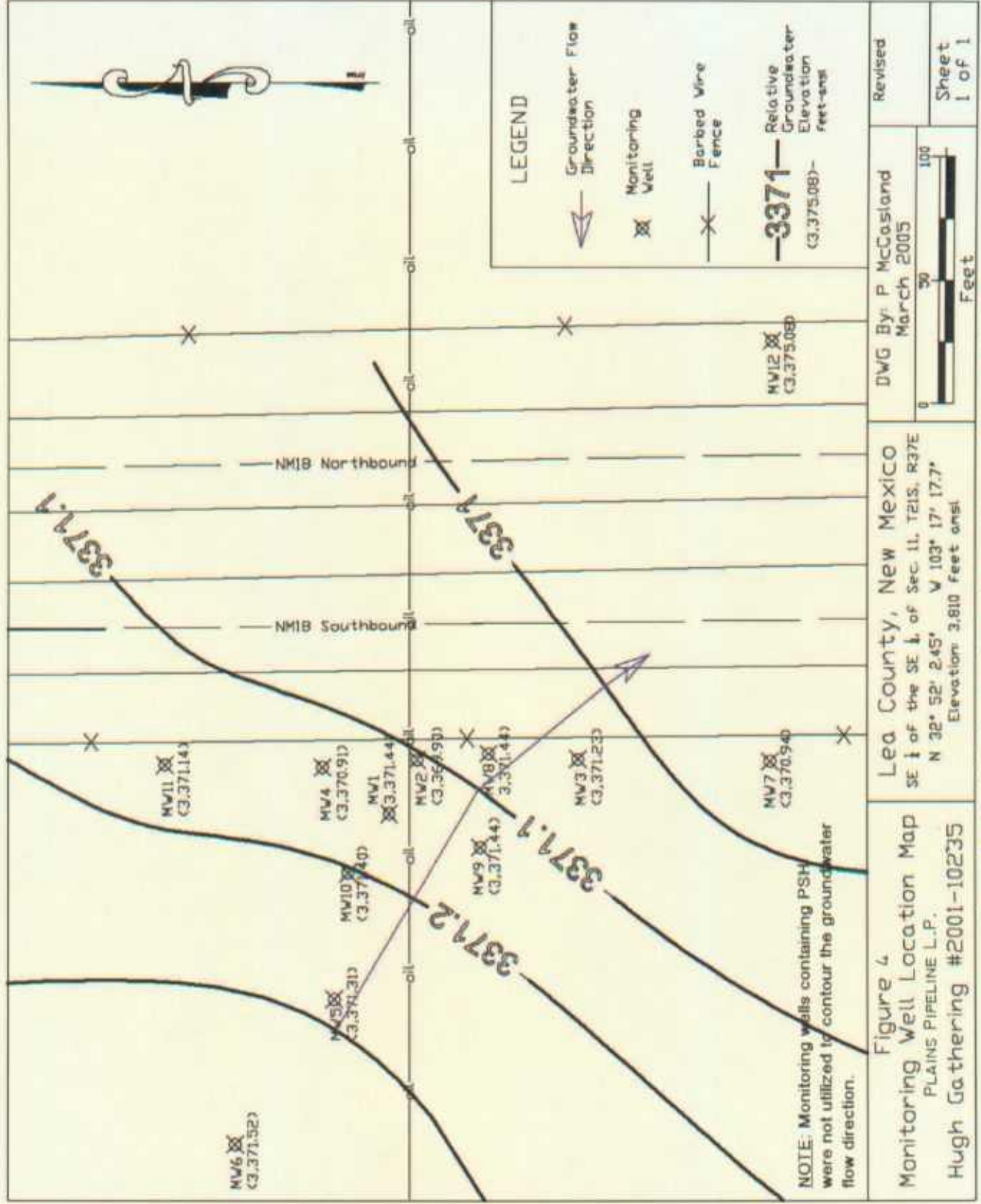


Figure 3 - Hugh Gathering Groundwater Contour Map - 7/26/04



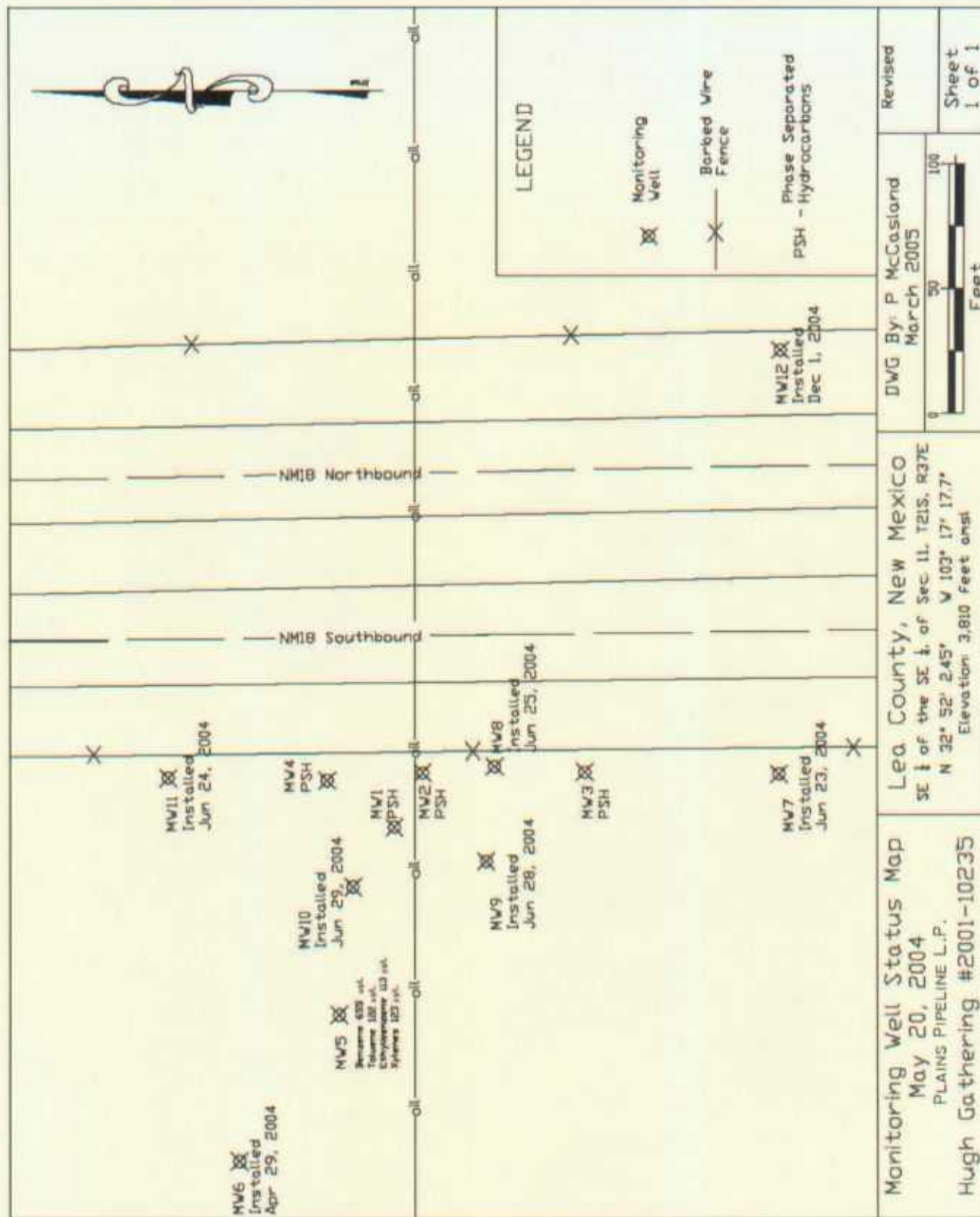


Figure 5 - Hugh Gathering Status Map - May 20, 2004

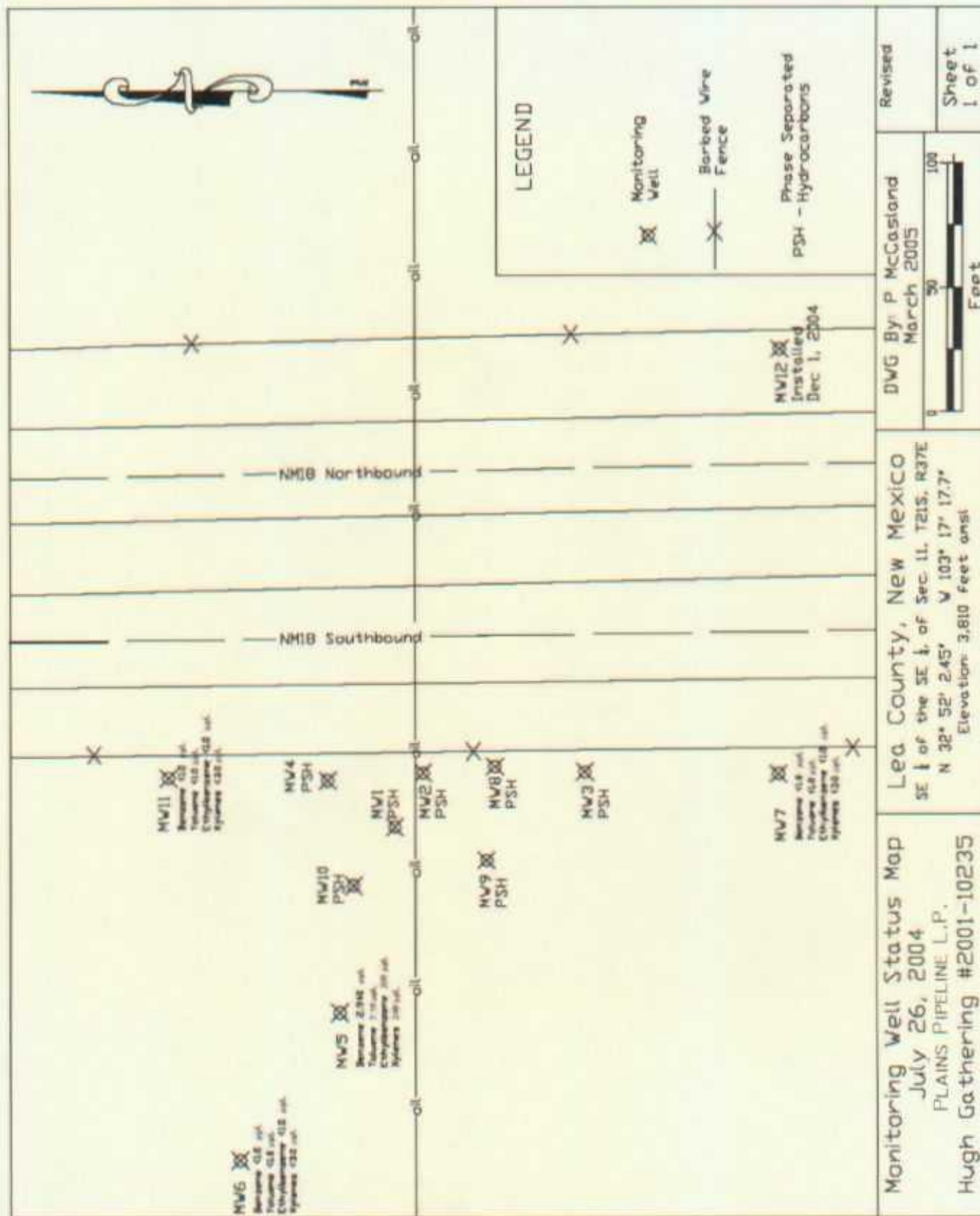


Figure 6 - Hugh Gathering Status Map - July 26, 2004

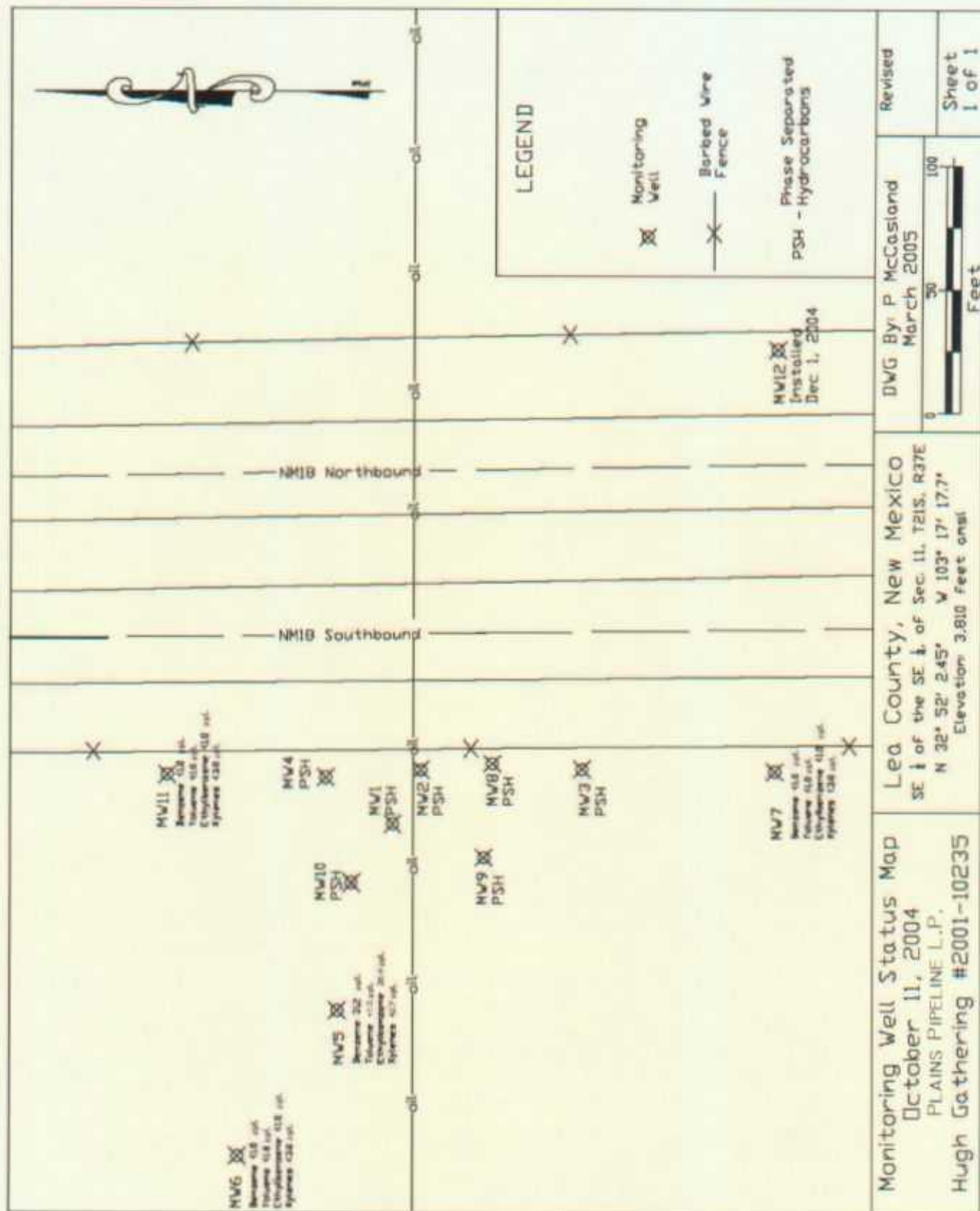


Figure 7 - Hugh Gathering Status Map - October 11, 2004

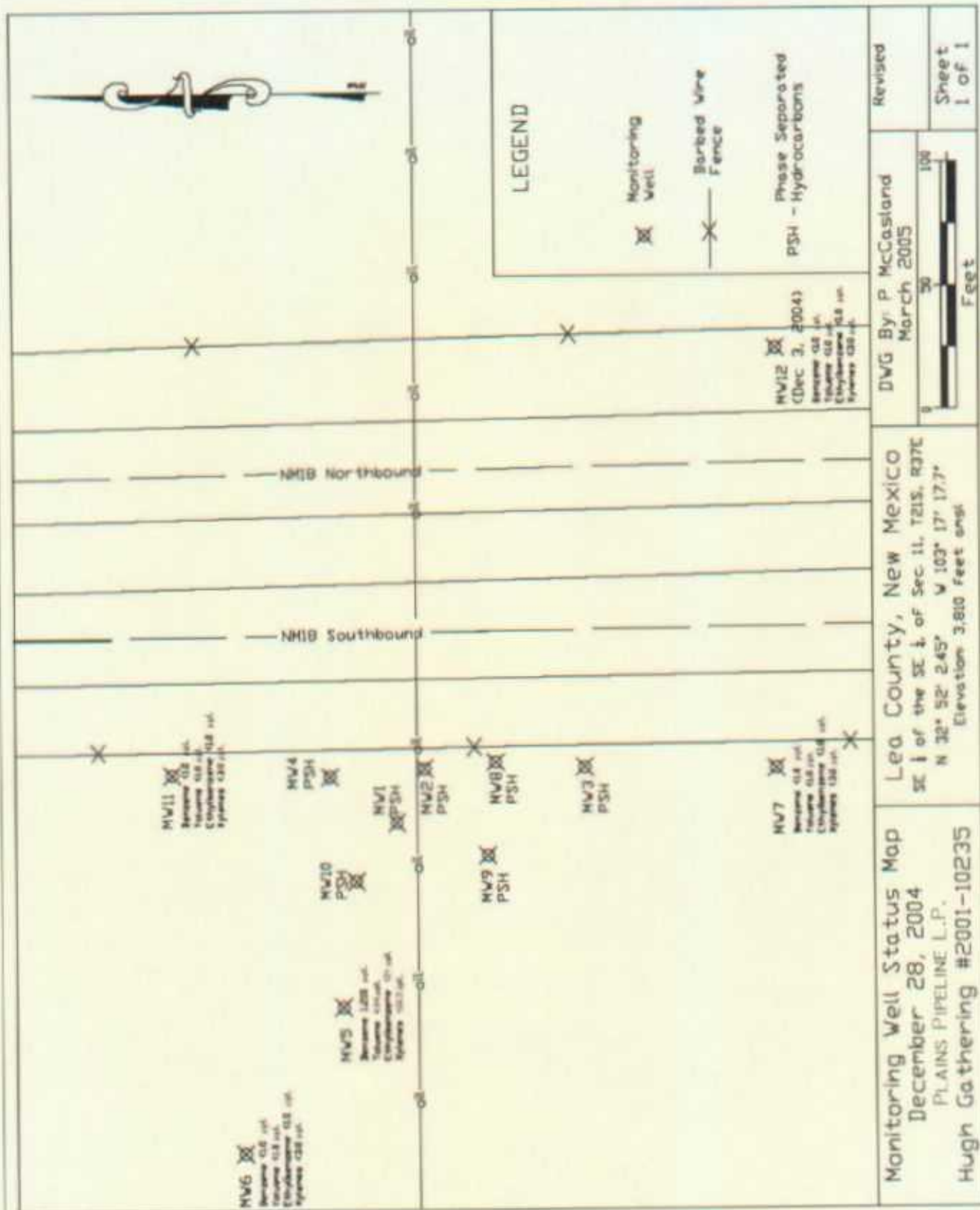
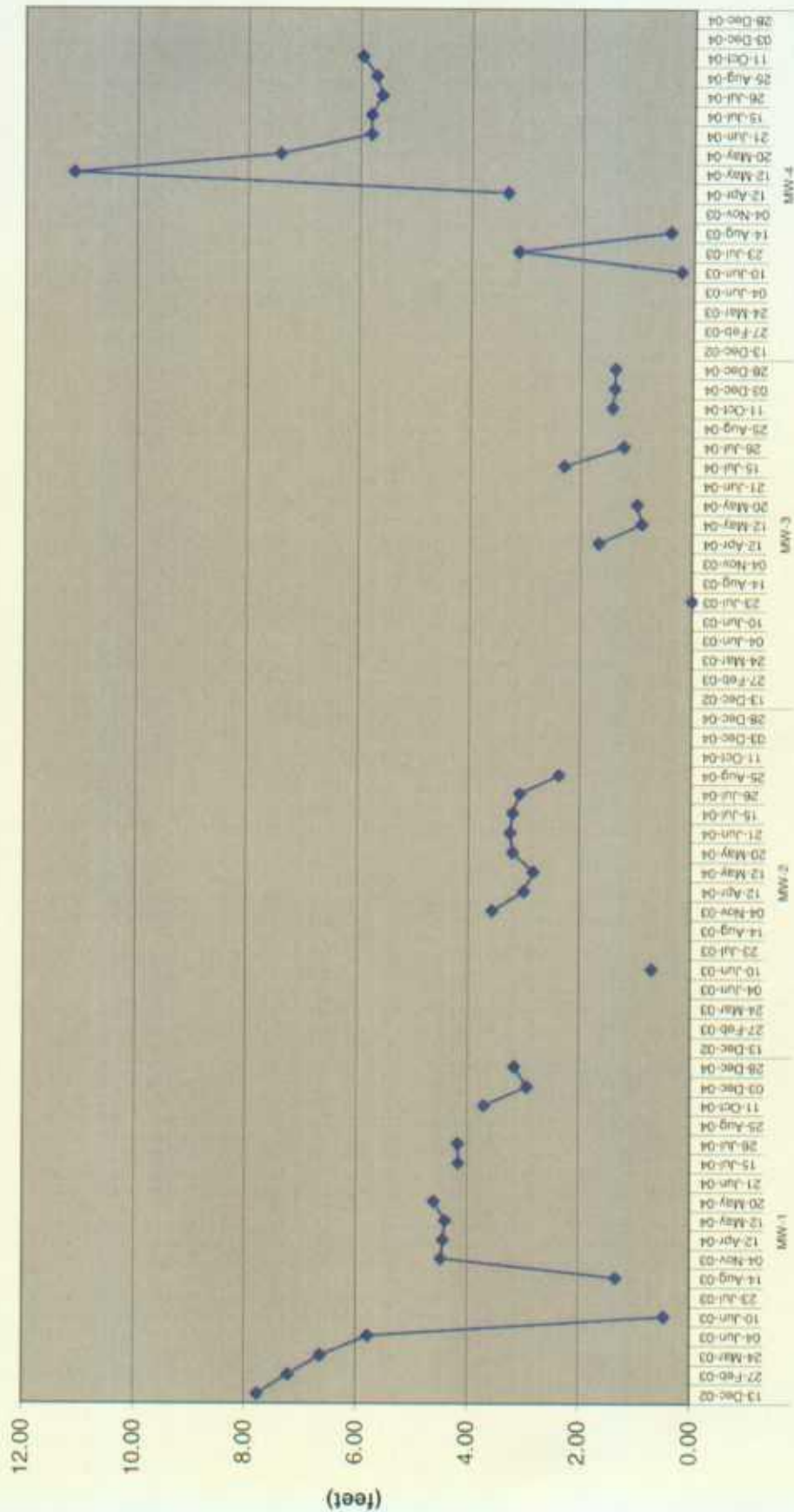


Figure 8 - Hugh Gathering Status Map - December 28, 2004

Plains Pipeline, L.P.
Hugh Gathering #2001-10235
Phase Separated Hydrocarbon Thickness
Monitoring Wells MW1, MW2, MW3, and MW4



—●— Phase Separated Hydrocarbon Thickness (feet)

Figure 9 - Hugh Gathering PSH Thickness - MW1, MW2, MW3, and MW4

Plains Pipeline, L.P.
Hugh Gathering #2001-10235
Phase Separated Hydrocarbon Thickness
Monitoring Wells MW8, MW9, and MW10

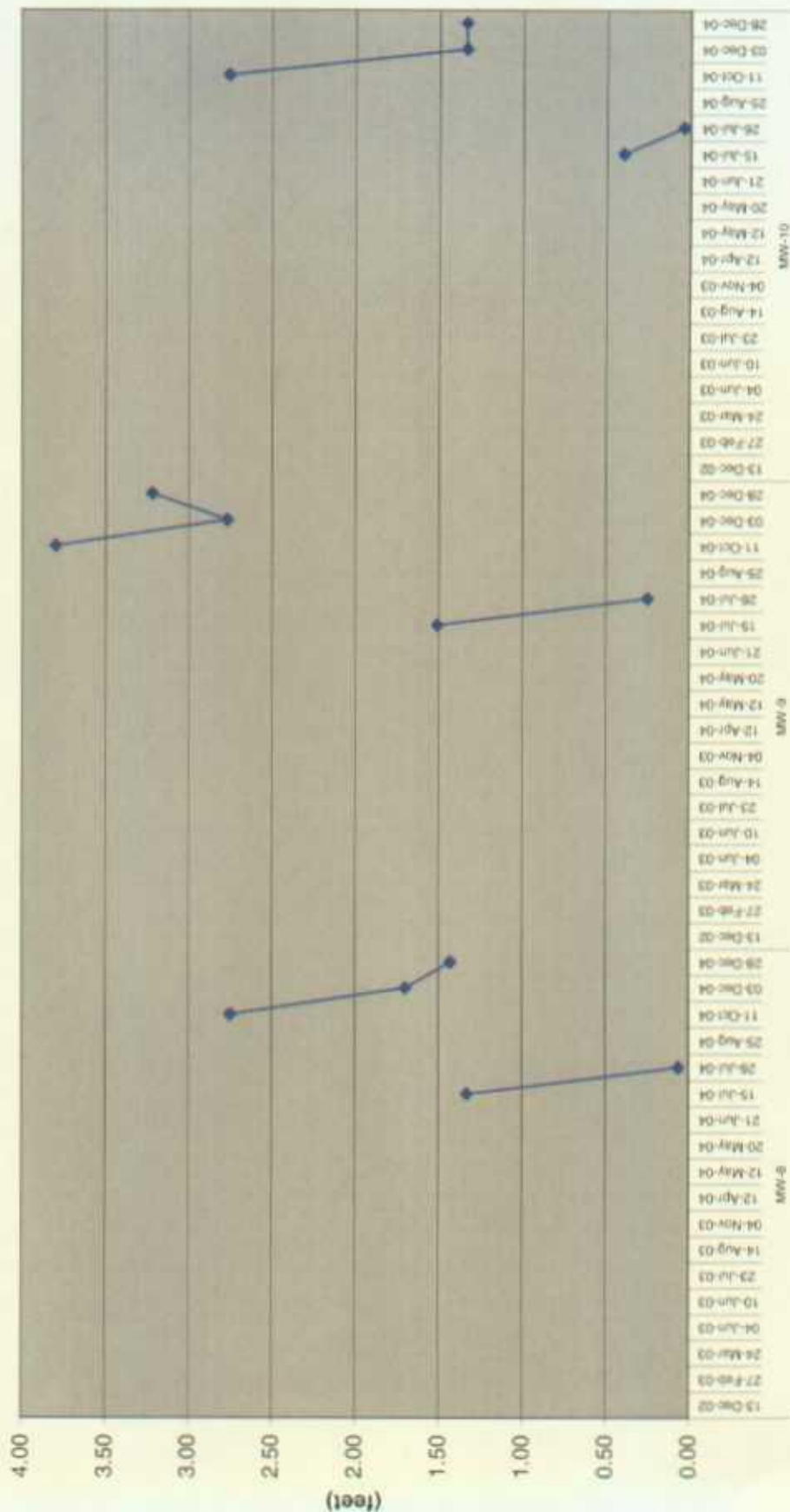


Figure 10 - Hugh Gathering PSH Thickness - MW8, MW9, and MW10

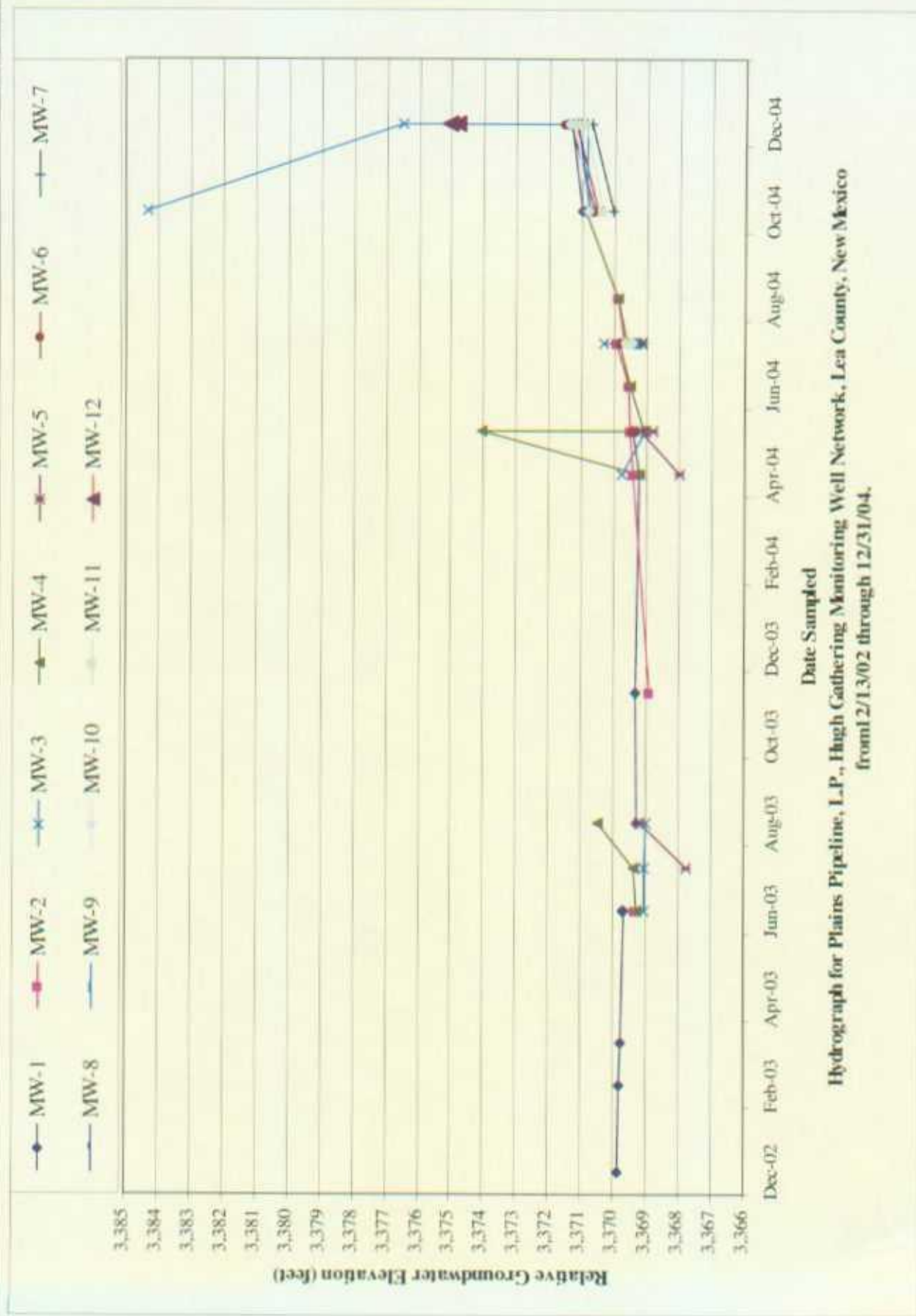


Figure 11 - Hugh Gathering Monitoring Well Hydrograph

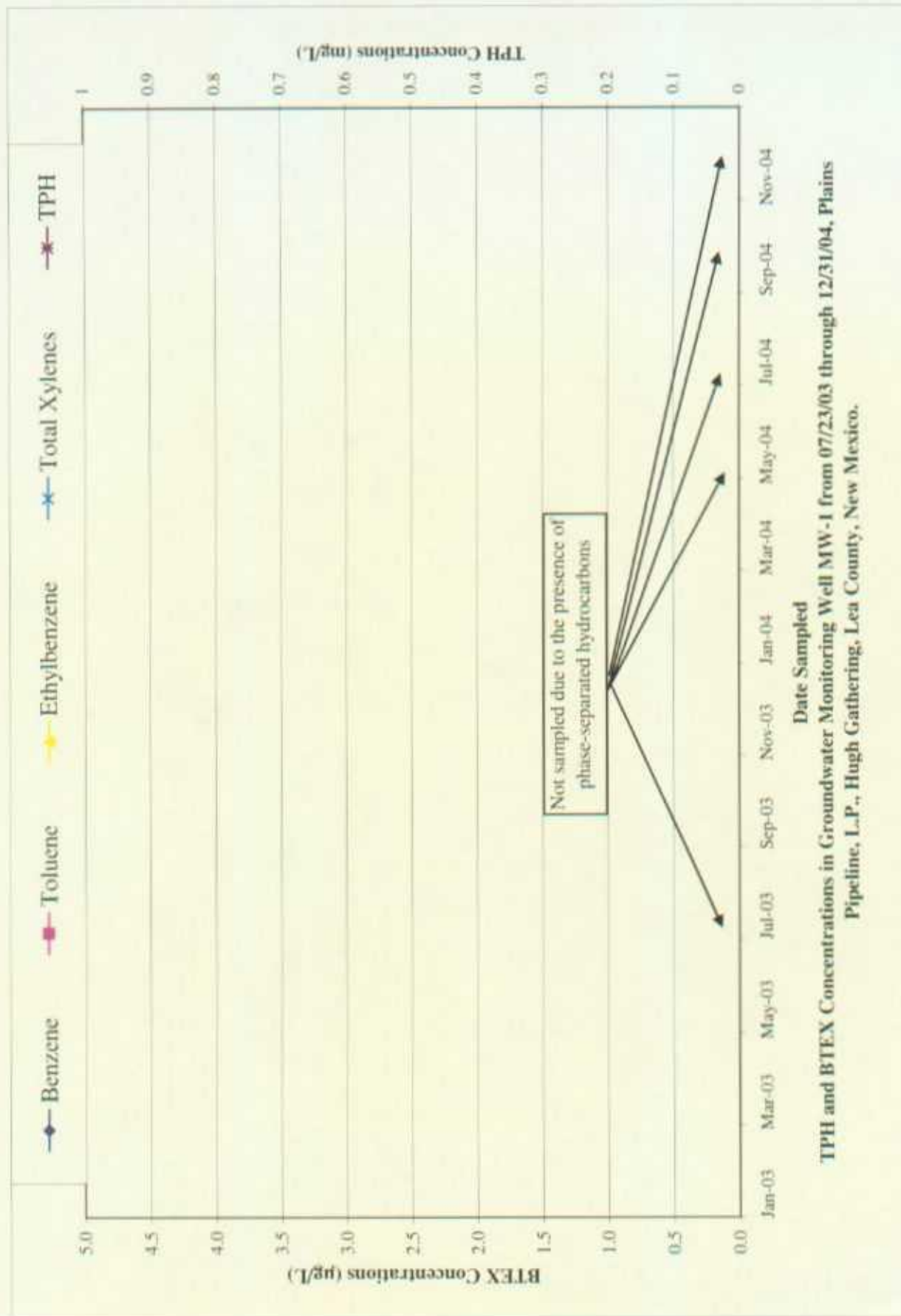
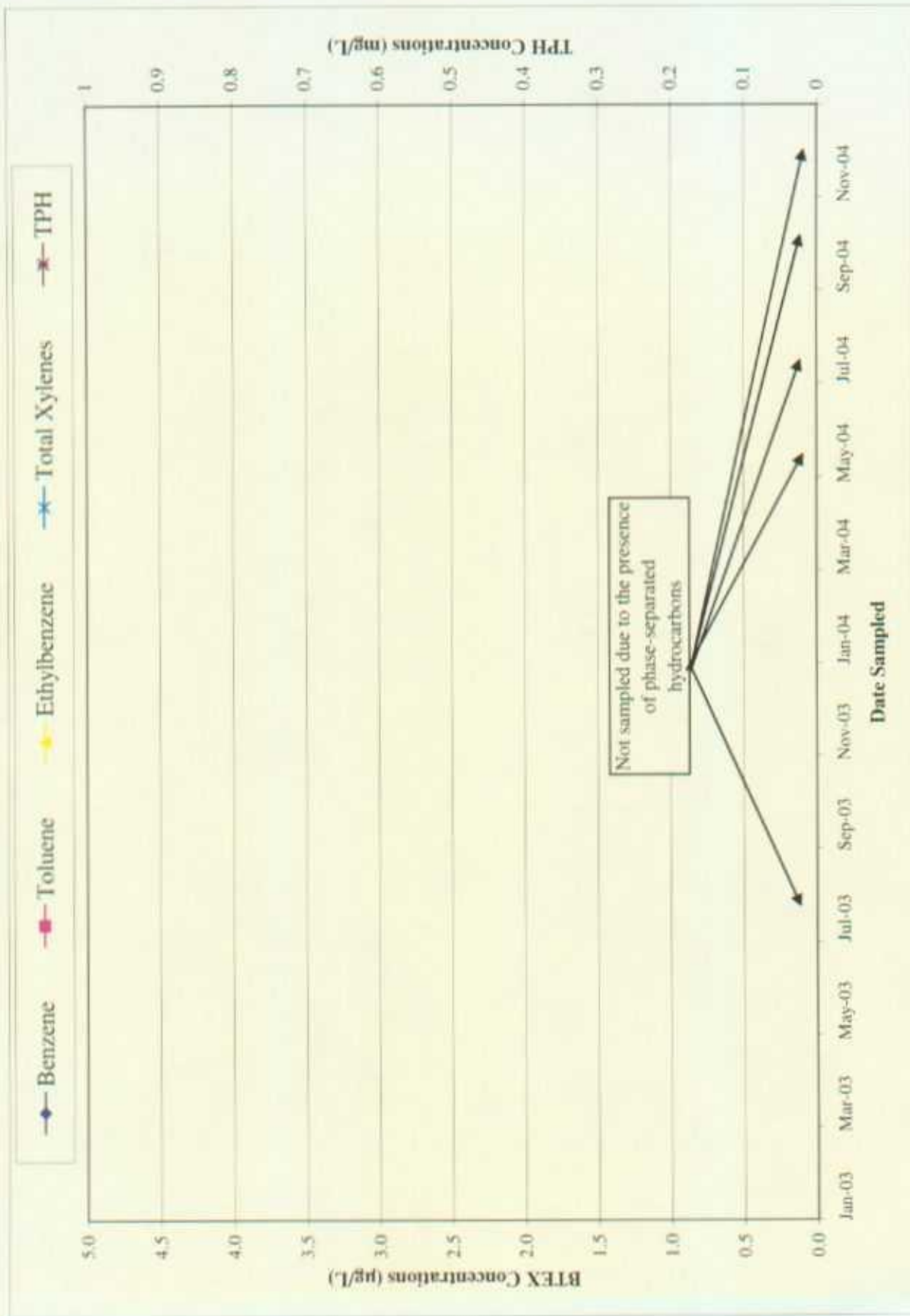
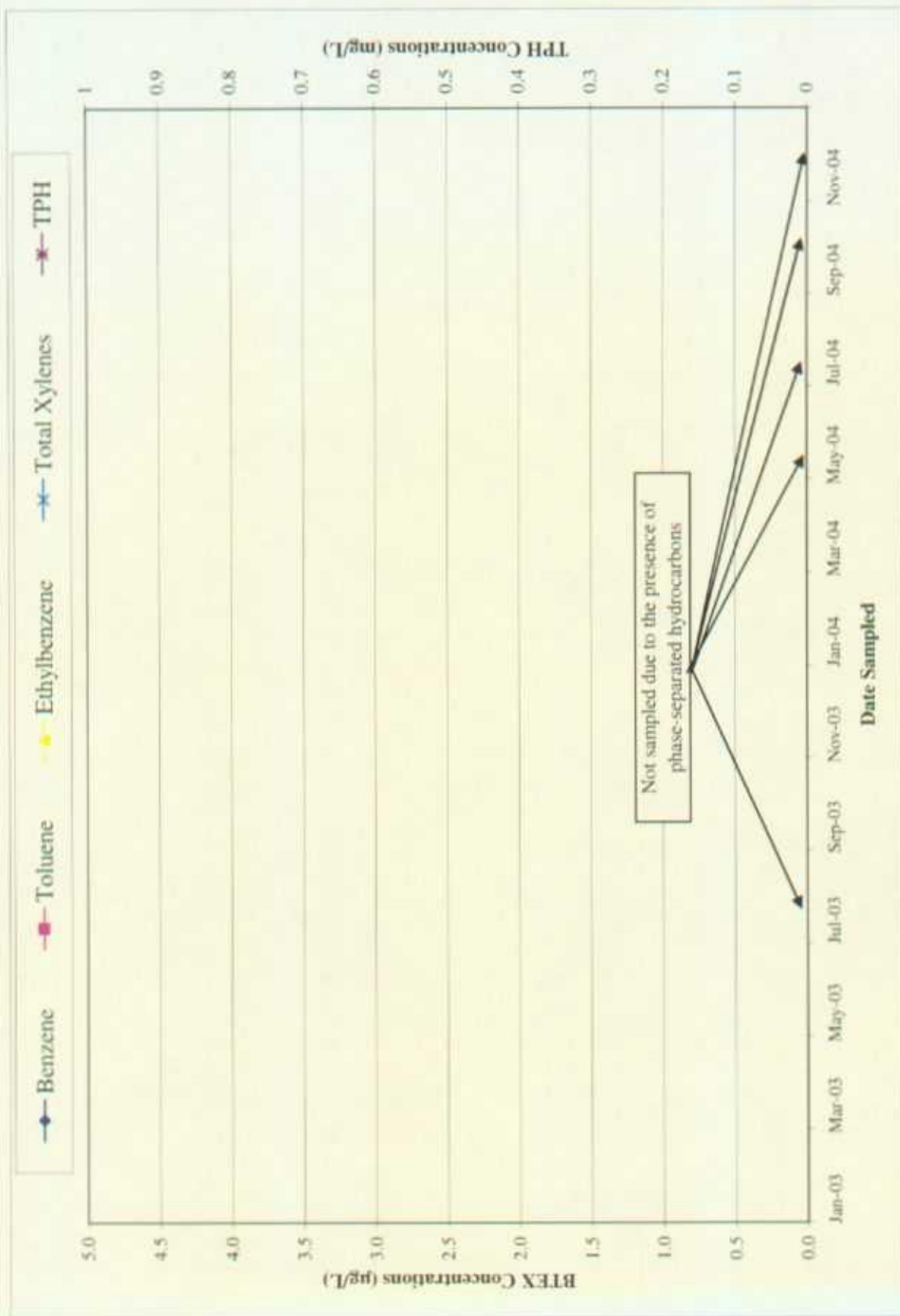


Figure 12 - Hugh Gathering MW1 Analytical Results



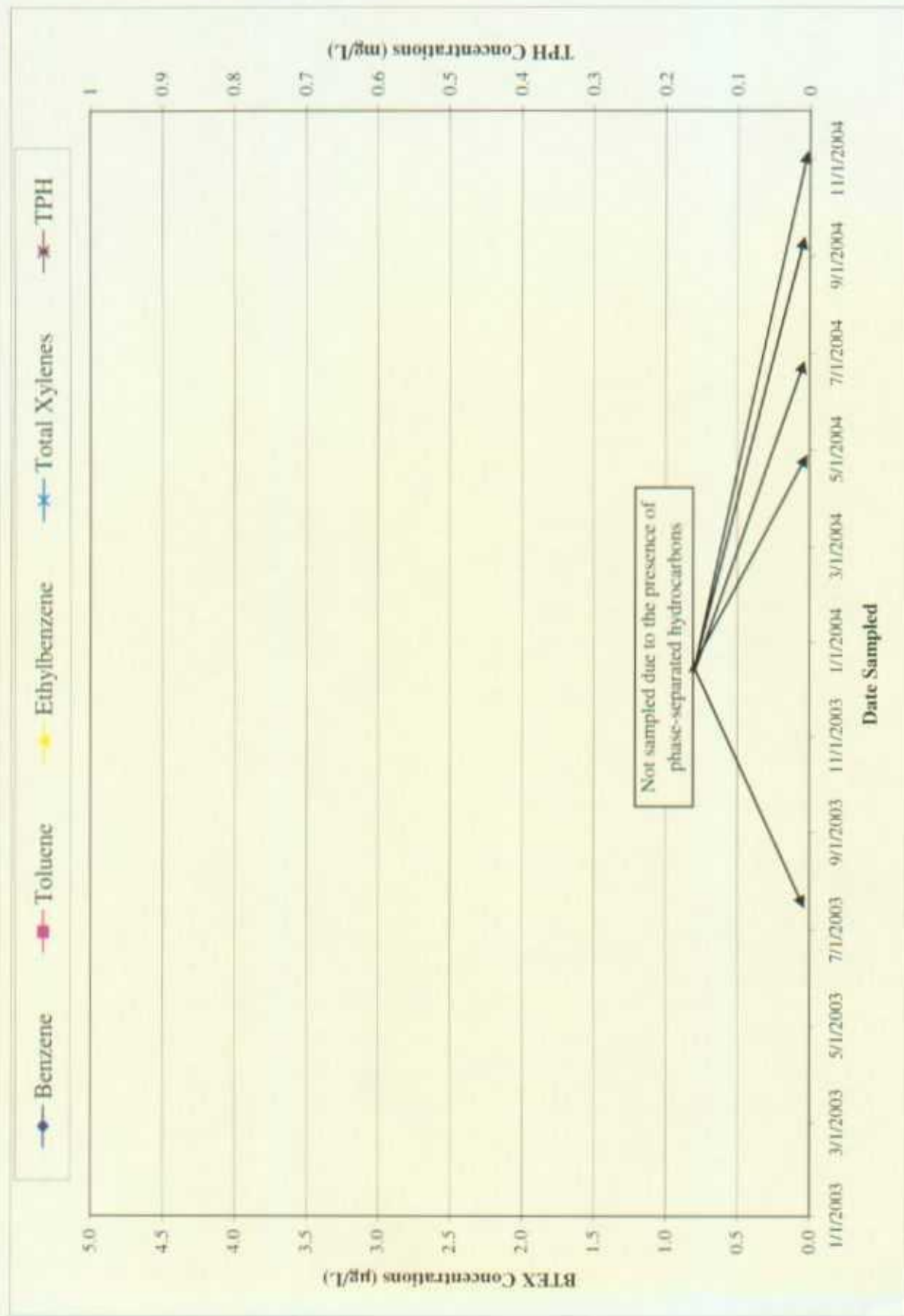
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-2 from 07/23/03 through 12/31/04, Plains Pipeline, L.P. Hugh Gathering, Lea County, New Mexico.

Figure 13 - Hugh Gathering MW2 Analytical Results



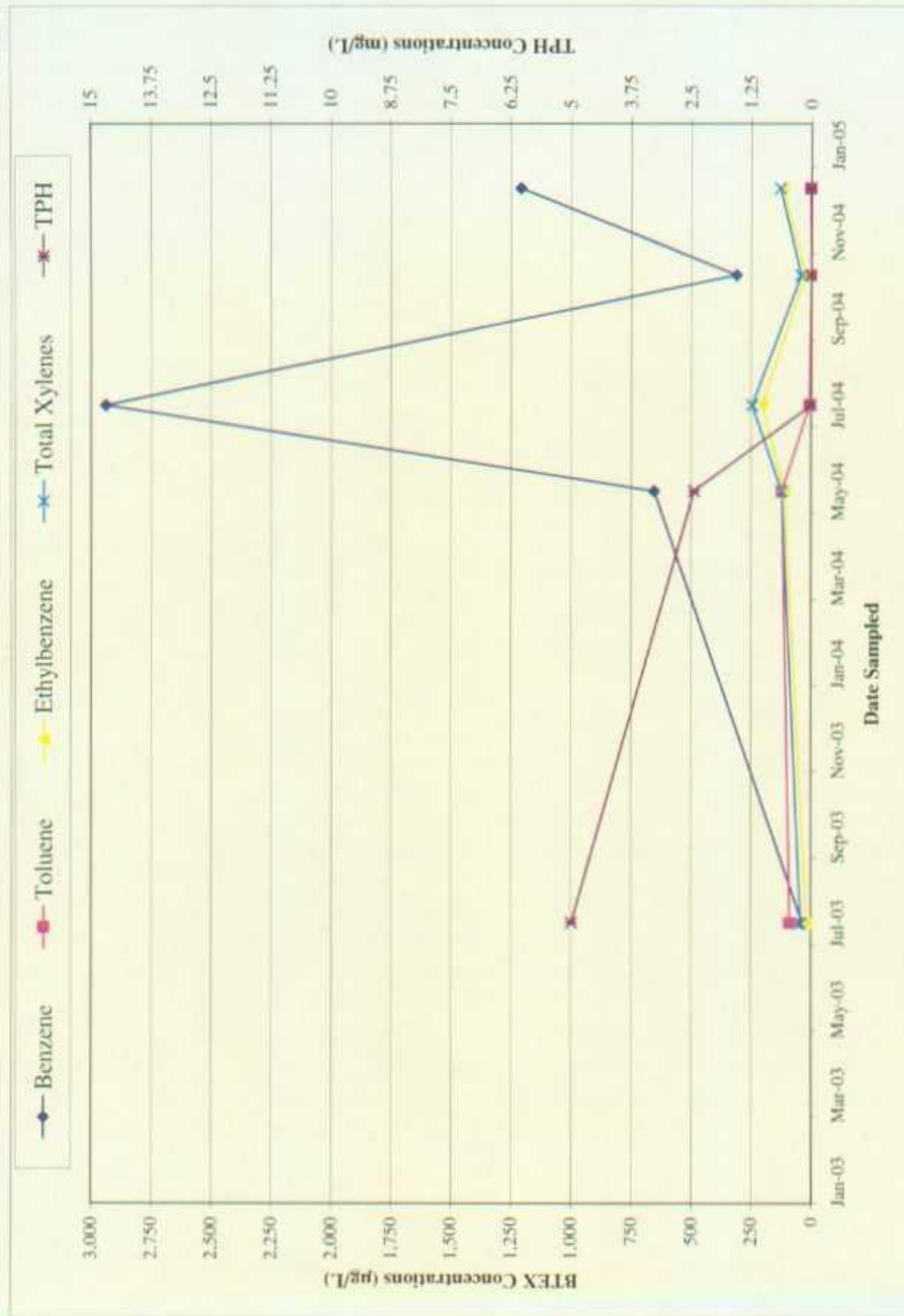
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 07/23/03 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 14 - Hugh Gathering MW3 Analytical Results



TPH and BTEX Concentrations in Groundwater Monitoring Well MW-4 from 07/23/03 through 12/31/04, Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 15 - Hugh Gathering MW4 Analytical Results



TPH and BTEX Concentrations in Groundwater Monitoring Well MW-5 from 07/23/03 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 16 - Hugh Gathering MW5 Analytical Results



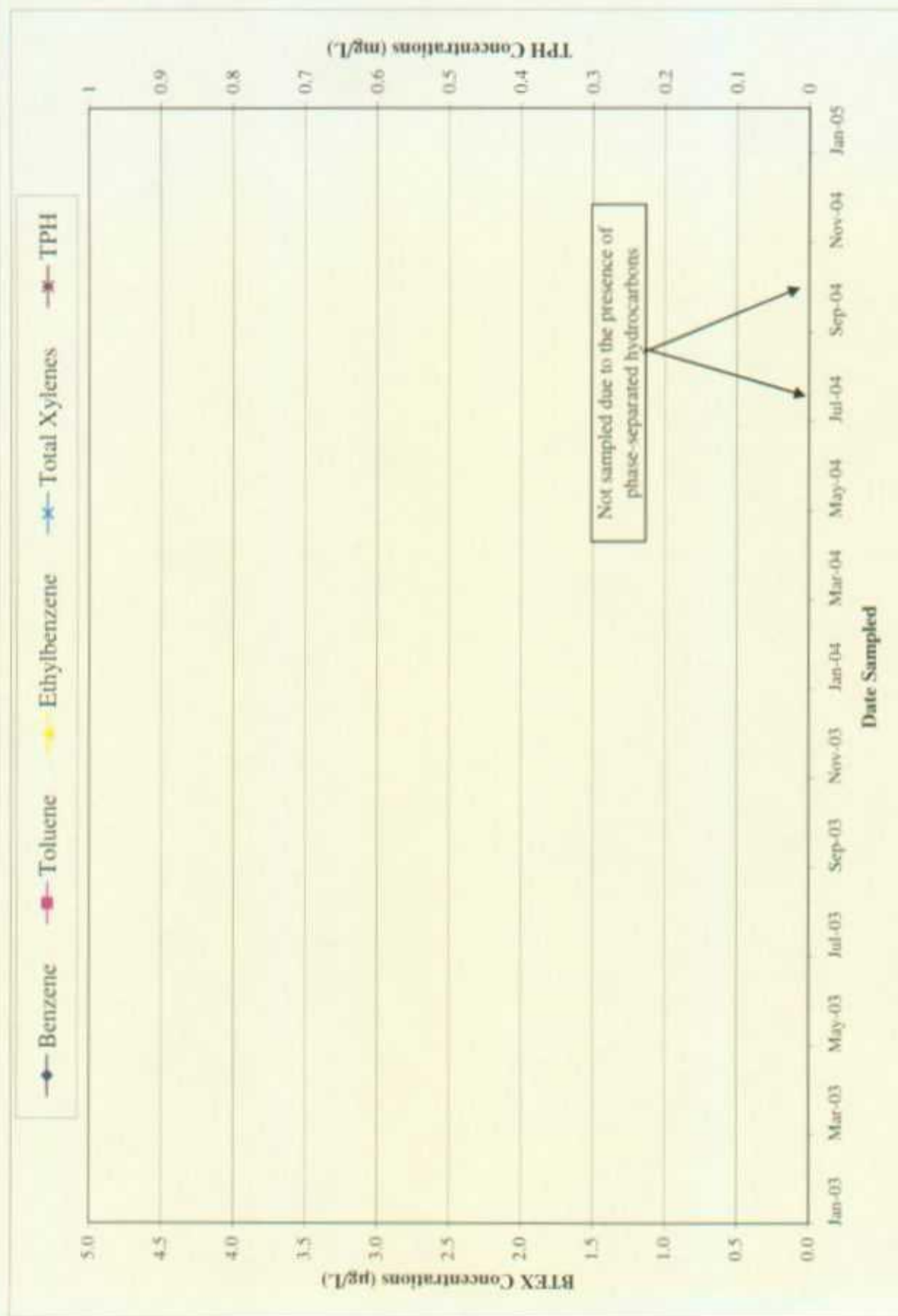
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-6 from 07/27/04 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 17 - Hugh Gathering MW6 Analytical Results



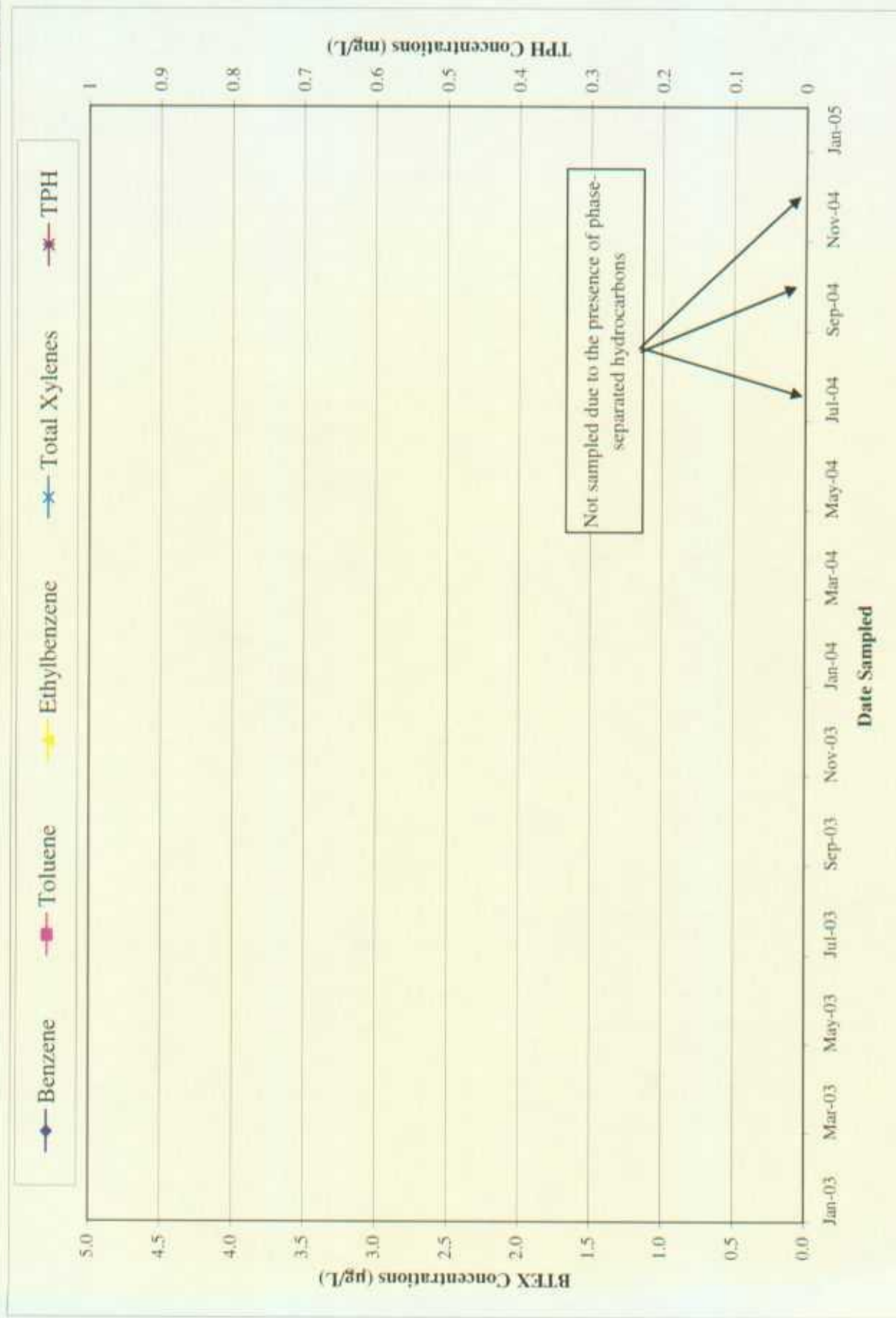
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-7 from 07/27/04 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 18 - Hugh Gathering MW7 Analytical Results



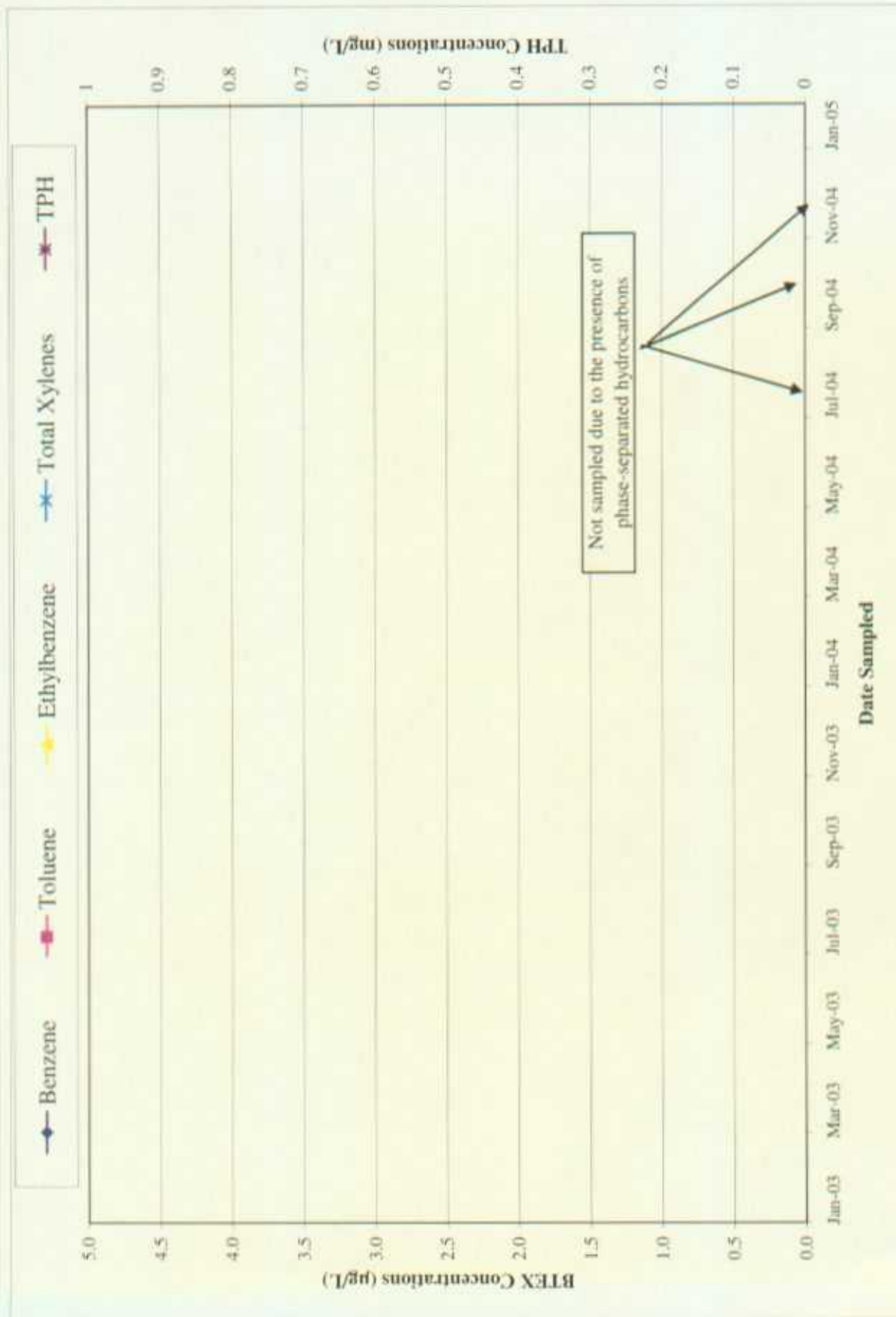
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-8 from 07/27/04 through 12/31/04, Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 19 - Hugh Gathering MW/8 Analytical Results



TPH and BTEX Concentrations in Groundwater Monitoring Well MW-9 from 07/27/04 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 20 - Hugh Gathering MW9 Analytical Results



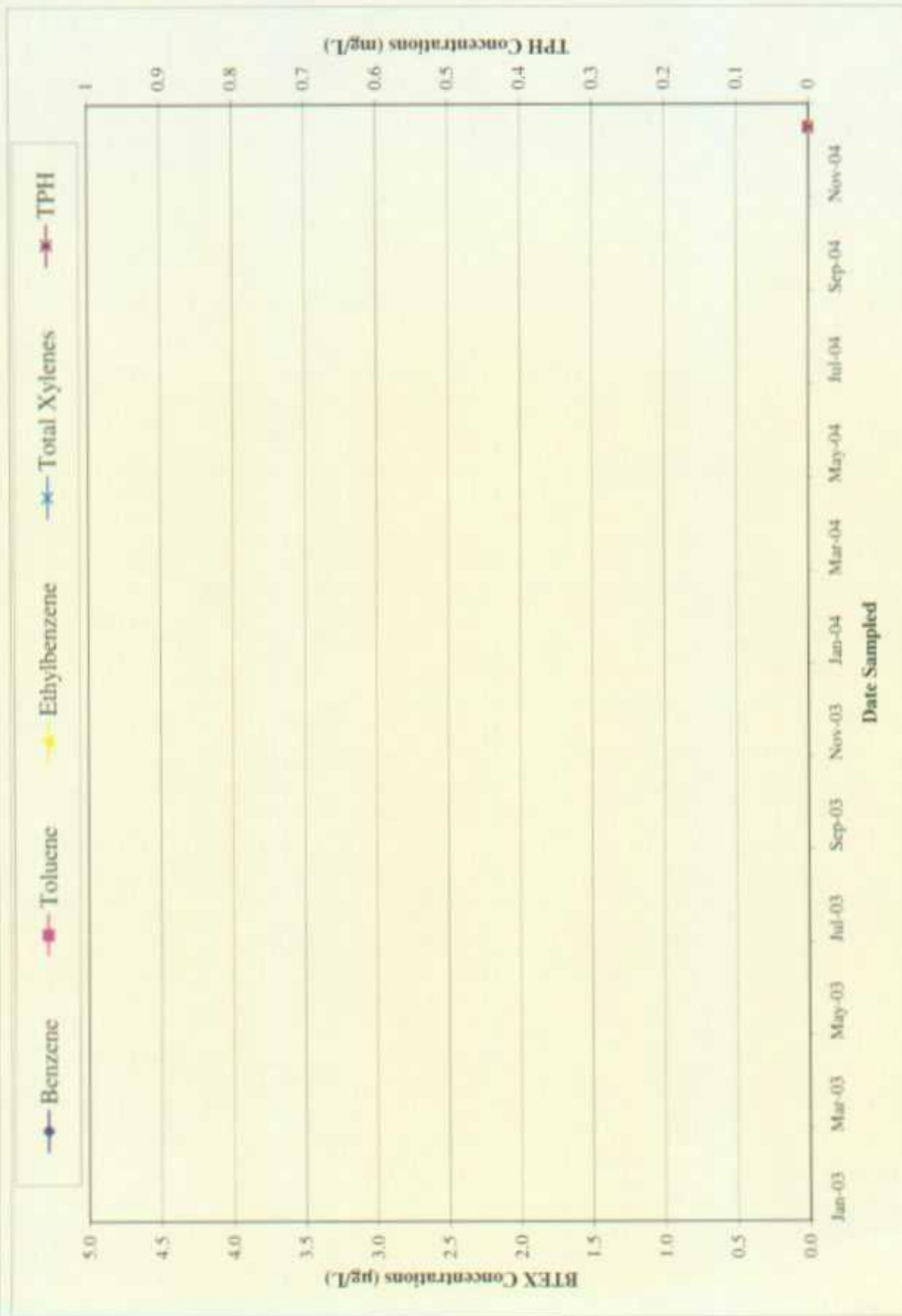
TPH and BTEX Concentrations in Groundwater Monitoring Well MW-10 from 07/27/04 through 12/31/04,
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 21 - Hugh Gathering MW10 Analytical Results



TPH and BTEX Concentrations in Groundwater Monitoring Well MW-11 from 07/27/04 through 12/31/04.
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 22 - Hugh Gathering MW11 Analytical Results



TPH and BTEX Concentrations in Groundwater Monitoring Well MW-12 from 12/03/04 through 12/31/04.
Plains Pipeline, L.P., Hugh Gathering, Lea County, New Mexico.

Figure 23 - Hugh Gathering MW12 Analytical Results

TABLES

Table 1 - Hugh Gathering Groundwater and PSH Levels and PSH Recovery Log

TABLE 1
RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES
Plains Pipeline, L.P.
Hugh Gathering - Ref. #2002-10235

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	13-Dec-02	3,429.95	59.33	67.10	3,369.84	7.77
	27-Feb-03		59.42	66.63	3,369.81	7.21
	24-Mar-03		59.51	66.15	3,369.78	6.64
	04-Jun-03		59.70	65.48	3,369.67	5.78
	10-Jun-03		60.16	60.62	3,369.74	0.46
	23-Jul-03					
	14-Aug-03		60.53	61.86	3,369.29	1.33
	04-Nov-03		60.17	64.64	3,369.33	4.47
	12-Apr-04		60.25	64.68	3,369.26	4.43
	12-May-04		60.07	64.46	3,369.44	4.39
	20-May-04		60.03	64.63	3,369.46	4.60
	21-Jun-04					
	15-Jul-04		59.67	63.83	3,369.86	4.16
	26-Jul-04		59.91	64.08	3,369.62	4.17
	25-Aug-04					
	11-Oct-04		58.59	62.30	3,370.99	3.71
MW2	03-Dec-04		58.29	61.22	3,371.37	2.93
	28-Dec-04		58.19	61.35	3,371.44	3.16
	10-Jun-03	3,429.97	60.57	61.27	3,369.33	0.70
	23-Jul-03					
	14-Aug-03					
	04-Nov-03		60.71	64.28	3,368.90	3.57
	12-Apr-04		60.22	63.22	3,369.45	3.00
	12-May-04		60.15	62.98	3,369.54	2.83
	20-May-04		60.11	63.32	3,369.54	3.21
	21-Jun-04		60.06	63.31	3,369.59	3.25
	15-Jul-04		59.68	62.89	3,369.97	3.21
	26-Jul-04		59.96	63.04	3,369.70	3.08
MW3	25-Aug-04		59.83	62.21	3,369.90	2.38
	11-Oct-04			Not Gauged		
	03-Dec-04			Not Gauged		
	28-Dec-04			Not Gauged		
	10-Jun-03	3,429.89		60.85	3,369.04	Oil Sheen
	23-Jul-03			60.85	3,369.04	
	14-Aug-03			60.86	3,369.03	
	04-Nov-03					
	12-Apr-04		59.96	61.64	3,369.76	1.68
	12-May-04		60.75	61.66	3,369.05	0.91
	20-May-04		60.72	61.72	3,369.07	1.00
	21-Jun-04				3,429.89	
	15-Jul-04		59.31	61.62	3,370.35	2.31
	26-Jul-04		60.58	61.82	3,369.19	1.24
	25-Aug-04				3,429.89	
	11-Oct-04		45.41	46.86	3,384.34	1.45
	03-Dec-04		53.24	54.65	3,376.51	1.41
	28-Dec-04		58.52	59.92	3,371.23	1.40

TABLE 1
RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES

Plains Pipeline, L.P.
 Hugh Gathering - Ref. #2002-10235

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)
MW4	10-Jun-03	3,430.36	61.03	61.26	3,369.31	0.23
	23-Jul-03		60.65	63.80	3,369.40	3.15
	14-Aug-03		59.82	60.24	3,370.50	0.42
	04-Nov-03					
	12-Apr-04		60.76	64.11	3,369.27	3.35
	12-May-04		55.18	66.31	3,374.07	11.13
	20-May-04		60.51	67.95	3,369.11	7.44
	21-Jun-04		60.24	66.05	3,369.54	5.81
	15-Jul-04		59.91	65.72	3,369.87	5.81
	26-Jul-04		60.16	65.78	3,369.64	5.62
	25-Aug-04		59.89	65.61	3,369.90	5.72
	11-Oct-04		58.85	64.82	3,370.91	5.97
	03-Dec-04			Not Gauged		
	28-Dec-04			Not Gauged		
MW-5	23-Jul-03	3,428.93	--	61.17	3,367.76	--
	14-Aug-03		--	59.75	3,369.18	--
	04-Nov-03					
	12-Apr-04		--	60.93	3,368.00	--
	12-May-04		--	59.72	3,369.21	--
	20-May-04		--	60.12	3,368.81	--
	21-Jun-04				3,428.93	--
	15-Jul-04		--	59.34	3,369.59	--
	26-Jul-04		--	59.76	3,369.17	--
	25-Aug-04				3,428.93	--
	11-Oct-04		--	58.40	3,370.53	--
	03-Dec-04		--	57.71	3,371.22	--
	28-Dec-04		--	57.62	3,371.31	--
MW6	12-May-04	3,429.24	--	59.83	3,369.41	--
	20-May-04		--	59.79	3,369.45	--
	21-Jun-04				3,429.24	--
	15-Jul-04		--	59.49	3,369.75	--
	26-Jul-04		--	59.44	3,369.80	--
	25-Aug-04					
	11-Oct-04		--	58.60	3,370.64	--
	03-Dec-04		--	57.85	3,371.39	--
	28-Dec-04		--	57.72	3,371.52	--
MW-7	15-Jul-04	3,429.80	--	60.56	3,369.24	--
	26-Jul-04		--	60.58	3,369.22	--
	25-Aug-04					
	11-Oct-04		--	59.75	3,370.05	--
	03-Dec-04		--	59.08	3,370.72	--
	28-Dec-04		--	58.86	3,370.94	--
MW-8	15-Jul-04	3,430.27	60.41	61.74	3,369.73	1.33
	26-Jul-04		60.54	60.60	3,369.72	0.06
	25-Aug-04					
	11-Oct-04		59.16	61.91	3,370.84	2.75
	03-Dec-04		58.90	60.60	3,371.20	1.70
	28-Dec-04		58.83	60.26	3,371.30	1.43

TABLE 1
RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES
Plains Pipeline, L.P.
Hugh Gathering - Ref. #2002-10235

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)
MW9	15-Jul-04	3,429.88	60.05	61.56	3,369.68	1.51
	26-Jul-04		60.50	60.75	3,369.36	0.25
	25-Aug-04					
	11-Oct-04		58.65	62.45	3,370.85	3.80
	03-Dec-04		58.72	61.49	3,370.88	2.77
	28-Dec-04		58.12	61.34	3,371.44	3.22
MW10	15-Jul-04	3,430.65	60.92	61.32	3,369.69	0.40
	26-Jul-04		61.16	61.20	3,369.49	0.04
	25-Aug-04					
	11-Oct-04		59.55	62.31	3,370.82	2.76
	03-Dec-04		59.25	60.59	3,371.27	1.34
	28-Dec-04		59.12	60.46	3,371.40	1.34
MW11	15-Jul-04	3,430.94	--	61.31	3,369.63	--
	26-Jul-04		--	61.31	3,369.63	--
	25-Aug-04					
	11-Oct-04		--	60.55	3,370.39	--
	03-Dec-04		--	60.00	3,370.94	--
	28-Dec-04		--	59.80	3,371.14	--
MW12	03-Dec-04	3,430.94	--	56.11	3,374.83	--
	28-Dec-04		--	55.86	3,375.08	--
Total Cumulative PSH Recovered						~600

* = Wells are referenced to the TOC of groundwater monitoring well MW12, which was set to an elevation of 100.00 feet

-- = Not Detected

If cell is blank, the well was not gauged

PSH = PSH Surveyed

Table 2 - Hugh Gathering Groundwater Analytical Results

TABLE 2

Summary of Groundwater Analytical Results

Plains Pipeline, L.P. Hugh Gathering - Ref. #2002-10235

Monitoring Well Location	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)	Total Nylons (mg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Dissolved TPH as Gasoline (mg/L)	Total TPH (mg/L)
MW-1	23-Jul-03										
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										
MW-2	23-Jul-03										
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										
MW-3	23-Jul-03	112	361	138	158	92	150		3.95	2.29	6.24
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										
MW-4	23-Jul-03										
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										
MW-5	23-Jul-03	36	88	21	24	20	44		1.97	3.02	4.99
	20-May-04	655	122	113	57.8	65	123	--	1.41	1.03	2.44
	26-Jul-04	2,940	7.15	206	20.1	226	246	--	--	--	--
	11-Oct-04	312	<1.0	26.4	<2.0	42.7	42.7	--	--	--	--
	28-Dec-04	1,210	4.84	121	10.3	119.0	129.3	--	--	--	--
MW-6	23-Jul-03										
	20-May-04										
	26-Jul-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
	11-Oct-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
	28-Dec-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
MW-7	23-Jul-03										
	20-May-04										
	26-Jul-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
	11-Oct-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
	28-Dec-04	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	--	--	--	--
MW-8	23-Jul-03										
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										
MW-9	23-Jul-03										
	20-May-04										
	26-Jul-04										
	11-Oct-04										
	28-Dec-04										

TABLE 2
Summary of Groundwater Analytical Results
Plains Pipeline, L.P. Hugh Gathering - Ref. #2002-10235

Monitoring Well Location	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	m,p-Xylenes (ug/L)	o-Xylene (ug/L)	Total Xylenes (ug/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Direct (mg/L)	TPH as Gasoline (mg/L)	Total TPH (mg/L)
MW-10	23-Jul-03											
	20-May-04											
	26-Jul-04											
	11-Oct-04											
MW-11	28-Dec-04											
	23-Jul-03											
	20-May-04											
	26-Jul-04											
MW-12	11-Oct-04											
	28-Dec-04											
	23-Jul-03											
	20-May-04											
SMOCD Remedial Thresholds	26-Jul-04											
	11-Oct-04											
	3-Dec-04											
		10	750	750	<1.0	<1.0	<1.0	250	1,000			

NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS

NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS

NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS

WELL INSTALLED 28 JUNE 2004

WELL INSTALLED 24 JUNE 2004

WELL INSTALLED 01 DECEMBER 2004

Added values are in excess of the SMOCD Remedial Thresholds or other standards for Domestic Water Supply.

... Parameter was not analyzed

Table 3 - Hugh Gathering Groundwater Analytical Results PAHs
TABLE 3
Summary of Groundwater Polynuclear-Aromatic Hydrocarbons (PAH) Analytical Results
Plains Pipeline, L.P. Hugh Gathering - Ref. #2002-10235

Monitoring Well	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[k]-fluoranthene	Benzo[a]-pyrene	Indeno[1,2,3-cd]-pyrene	Dibenz[a,h]-anthracene	Benzo[ghi]-perylene
MW-1	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
MW-2	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
MW-3	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
MW-4	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
MW-5	23-Jul-03																
	20-May-04																
	26-Jul-04	31.6	0.056	0.096	0.45	0.353	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	11-Oct-04																
	28-Dec-04																

TABLE 3
Summary of Groundwater Polynuclear-Aromatic Hydrocarbons (PAH) Analytical Results
Plains Pipeline, L.P. Hugh Gathering - Ref. #2002-10235

Monitoring Well	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Flourene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[k]-fluoranthene	Benzo[a]-pyrene	Indeno[1,2,3-cd]-pyrene	Dibenz[a,h]-anthracene	Benzo[g,h,i]-perylene
MW-6	23-Jul-03																
	20-May-04	WAITING TO INSTALL MONITORING WELLS MW-7 THROUGH MW-11 TO SAMPLE															
	26-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	<0.05	<0.05	<0.05
	11-Oct-04	NOT ANALYZED															
	28-Dec-04	NOT ANALYZED															
	23-Jul-03																
MW-7	20-May-04	WELL INSTALLED 23 JUNE 2004															
	26-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	<0.05	<0.05	<0.05
	11-Oct-04	NOT ANALYZED															
	28-Dec-04	NOT ANALYZED															
	23-Jul-03																
	20-May-04	WELL INSTALLED 25 JUNE 2004															
MW-8	26-Jul-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	11-Oct-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	28-Dec-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	23-Jul-03																
MW-9	20-May-04	WELL INSTALLED 28 JUNE 2004															
	26-Jul-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	11-Oct-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	28-Dec-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	23-Jul-03																
MW-10	20-May-04	WELL INSTALLED 29 JUNE 2004															
	26-Jul-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	11-Oct-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	28-Dec-04	WELL NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS															
	23-Jul-03																

TABLE 3
Summary of Groundwater Polynuclear-Aromatic Hydrocarbons (PAH) Analytical Results
Plains Pipeline, L.P. Hugh Gathering - Ref. #2002-10235

Monitoring Well	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[k]-fluoranthene	Benzo[a]-pyrene	Indeno[1,2,3-cd]-pyrene	Dibenzo[a,h]-anthracene	Benzo[ghi]perylene
MW-11	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
MW-12	23-Jul-03																
	20-May-04																
	26-Jul-04																
	11-Oct-04																
	28-Dec-04																
NMOC Remedial Thresholds		30												0.70			

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

- - = Parameter was not analyzed

APPENDICES

APPENDIX A - HUGH GATHERING LABORATORY REPORTS

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#: 156150 **Report Date:** 06/03/04
Project ID: 2002-10235
Sample Name: MW-5
Sample Matrix: water
Date Received: 05/26/2004 **Time:** 10:25
Date Sampled: 05/20/2004 **Time:** 14:00

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
TPH by GC (as diesel)	1.41	mg/L	0.5	<0.5	06/02/04	8015 mod.	---	15.3	99.3	94.8	84.5
TPH by GC (as diesel-ext)	---	---	---	---	06/01/04	3510	---	---	---	---	---
TPH by GC (as gasoline)	1.03	mg/L	0.5	<0.5	06/02/04	8015 mod.	---	21.8	74.2	96.2	93.3
Volatile organics-8260b/BTEX	---	---	---	---	06/01/04	8260b(5030/5035)	---	---	---	---	---
Benzene	655	µg/L	10	<10	06/01/04	8260b	---	4.5	97.9	103.7	112.8
Ethylbenzene	113	µg/L	10	<10	06/01/04	8260b	---	1.2	111.1	109.6	116.5
m,p-Xylenes	57.8	µg/L	20	<20	06/01/04	8260b	---	0.3	108.3	110.1	119
o-Xylene	65	µg/L	10	<10	06/01/04	8260b	---	2	114.2	111.3	121
Toluene	122	µg/L	10	<10	06/01/04	8260b	---	2.6	113.9	110.3	120.5

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

Client: Environmental Plus, Inc.
 Attn: Iain Olness

Project ID: 2002-10235
 Sample Name: MW-5

Report#/Lab ID#: 156150
 Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	70.5	42-122	---
	8015 mod.	121	39-125	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	96.8	74-124	---
	8260b	103	89-115	---

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

AnalySys Inc.

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

Chain of Custody Form

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name		Environmental Plus, Inc.		BIOLOGICAL ANALYSIS REQUEST	
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	Hugh Gathering				
Project Reference	2002-10235				
EPI Sampler Name	Brett Clay				

LAB I.D.	SAMPLE I.D.	MATRIX			PRESERV.			SAMPLING			DATE	TIME	BTEX 8021B	TFH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>	PAH
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER										
156150	1 MW-5	(G) RAB OR (C) OMP.	# CONTAINERS																	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler Relinquished:	Date	3/26/04	Received By:	
	Time	10:25		
Relinquished by:	Date	3/26/04	Received By: (lab staff)	
	Time	10:25		
Delivered by:	Sample Cool & Intact		Yes	No
	Checked By:			

E-mail results to: iolness@hotmail.com and enviplus1@aol.com	
REMARKS:	
T: 4.2.0	

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eminec, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 157899 **Report Date:** 08/16/04
Project ID: 2002-10235
Sample Name: LEHG072604MW-5
Sample Matrix: water
Date Received: 07/28/2004 **Time:** 10:15
Date Sampled: 07/26/2004 **Time:** 14:41

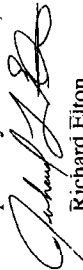
REPORT OF ANALYSIS

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	---	---	---	---	07/29/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/12/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	07/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	2940	µg/L	100	<100	07/31/04	8260b	---	3.4	85.3	102.5	97.8
Ethylbenzene	206	µg/L	1	<1	07/29/04	8260b	---	4.3	90	109.3	104
m,p-Xylenes	20.1	µg/L	2	<2	07/29/04	8260b	---	1.9	112	108.9	106.1
o-Xylene	226	µg/L	1	<1	07/29/04	8260b	---	4.7	110.9	111.3	109.2
Toluene	7.15	µg/L	1	<1	07/29/04	8260b	---	6.2	108.1	114.9	107.6
Acenaphthene	0.096	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	5.5	37.4	88.1	43.9
Acenaphthylene	0.056	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	0.8	39.3	104.5	47.6
Anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	J	8.2	50.6	101.9	57.1
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	6.5	41.7	91.6	56.2
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	17.8	28.9	98.6	59.4
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	7.7	27.9	82.1	45.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.8	37.4	110.2	62.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	3.6	38.4	108.4	63.4
Chrysene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	6.8	47.1	110.6	63
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.8	36.2	108.7	61.2
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	0.4	55.7	107.7	60.3
Fluorene	0.45	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	14.1	43.8	83.6	46.3
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	5.3	35.4	109.6	61.1

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.



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: 2002-10235
Sample Name: LEHG072604MW-5

Report#/Lab ID#: 157899
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	31	µg/L	0.5	<0.5	08/13/04	610 & 8270c	---	2.9	32.5	95	41.4
Phenanthrene	0.353	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	4.7	45.1	83.7	46.6
Pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.1	55.2	100	58.3



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: 2002-10235

Sample Name: LEHG072604MW-5

Report#/Lab ID#: 157899

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	60.4	39-110	---
Nitrobenzene-d5	610 & 8270c	43.3	12-110	---
Terphenyl-d14	610 & 8270c	81.8	25-110	---
Toluene-d8	8260b	103	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 157899	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10235		
Sample Name: LEHG072604MW-5		

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
Anthracene	J	See J-flag discussion above.

Notes:



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#: 157900 **Report Date:** 08/16/04
Project ID: 2002-10235
Sample Name: LEHG072604MW-6
Sample Matrix: water
Date Received: 07/28/2004 **Time:** 10:15
Date Sampled: 07/26/2004 **Time:** 15:18

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	---	---	---	---	07/29/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/12/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	07/31/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/04	8260b	J	3.4	85.3	102.5	97.8
Ethylbenzene	<1	µg/L	1	<1	07/31/04	8260b	---	4.3	90	109.3	104
m,p-Xylenes	<2	µg/L	2	<2	07/31/04	8260b	---	1.9	112	108.9	106.1
o-Xylene	<1	µg/L	1	<1	07/31/04	8260b	---	4.7	110.9	111.3	109.2
Toluene	<1	µg/L	1	<1	07/31/04	8260b	---	6.2	108.1	114.9	107.6
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	5.5	37.4	88.1	43.9
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	0.8	39.3	104.5	47.6
Anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	8.2	50.6	101.9	57.1
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	6.5	41.7	91.6	56.2
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	17.8	28.9	98.6	59.4
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	7.7	27.9	82.1	45.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.8	37.4	110.2	62.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	3.6	38.4	108.4	63.4
Chrysene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	6.8	47.1	110.6	63
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.8	36.2	108.7	61.2
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	0.4	55.7	107.7	60.3
Fluorene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	14.1	43.8	83.6	46.3
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	5.3	35.4	109.6	61.1

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.



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(512) 385-5886 FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235

Sample Name: LEHG072604MW-6

Report#/Lab ID#: 157900

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	41.8	39-110	---
	610 & 8270c	79.5	12-110	---
	610 & 8270c	63.1	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	79.8	74-124	---
	8260b	111	89-115	---

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235
Sample Name: LEHG072604MW-6

Report#/Lab ID#: 157900
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	08/12/04	610 & 8270c	J	2.9	32.5	95	41.4
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	4.7	45.1	83.7	46.6
Pyrene	<0.05	µg/L	0.05	<0.05	08/12/04	610 & 8270c	---	1.1	55.2	100	58.3

Exceptions Report:

Report #/Lab ID#: 157900	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10235		
Sample Name: LEHG072604MW-6		

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:

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- ☐ 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
Benzene	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euless, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 157901 **Report Date:** 08/16/04
Project ID: 2002-10235
Sample Name: LEHG072604MW-7
Sample Matrix: water
Date Received: 07/28/2004 **Time:** 10:15
Date Sampled: 07/26/2004 **Time:** 15:45

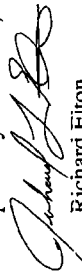
REPORT OF ANALYSIS

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	---	---	---	---	07/29/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/13/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	07/31/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/04	8260b	J	3.4	85.3	102.5	97.8
Ethylbenzene	<1	µg/L	1	<1	07/31/04	8260b	---	4.3	90	109.3	104
m,p-Xylenes	<2	µg/L	2	<2	07/31/04	8260b	---	1.9	112	108.9	106.1
o-Xylene	<1	µg/L	1	<1	07/31/04	8260b	---	4.7	110.9	111.3	109.2
Toluene	<1	µg/L	1	<1	07/31/04	8260b	---	6.2	108.1	114.9	107.6
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	5.5	37.4	88.1	43.9
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	0.8	39.3	104.5	47.6
Anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	8.2	50.6	101.9	57.1
Benzof[a]anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	6.5	41.7	91.6	56.2
Benzof[a]pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	17.8	28.9	98.6	59.4
Benzof[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	7.7	27.9	82.1	45.9
Benzof[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.8	37.4	110.2	62.1
Benzof[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	3.6	38.4	108.4	63.4
Chrysene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	6.8	47.1	110.6	63
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.8	36.2	108.7	61.2
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	0.4	55.7	107.7	60.3
Fluorene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	14.1	43.8	83.6	46.3
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	5.3	35.4	109.6	61.1

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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 & SI = 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.



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235
Sample Name: LEHG072604MW-7

Report#/Lab ID#: 157901
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	08/13/04	610 & 8270c	J	2.9	32.5	95	41.4
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	J	4.7	45.1	83.7	46.6
Pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.1	55.2	100	58.3



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235

Sample Name: LEHG072604MW-7

Report#/Lab ID#: 157901
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	66.8	39-110	---
Nitrobenzene-d5	610 & 8270c	99	12-110	---
Terphenyl-d14	610 & 8270c	128	25-110	X
1,2-Dichloroethane-d4	8260b	88.9	74-124	---
Toluene-d8	8260b	106	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 157901 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10235
Sample Name: LEHG072604MW-7

Sample Temperature/Condition: $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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).

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- ☐ 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
Benzene	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.
Terphenyl-d14	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices
Terphenyl-d14	X	(sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.

Notes:



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(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#: 157902 **Report Date:** 08/16/04
Project ID: 2002-10235
Sample Name: LEHG072604MW-11
Sample Matrix: water
Date Received: 07/28/2004 **Time:** 10:15
Date Sampled: 07/26/2004 **Time:** 14:15

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	---	---	---	---	07/29/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/13/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	07/30/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/30/04	8260b	J	3.4	85.3	102.5	97.8
Ethylbenzene	<1	µg/L	1	<1	07/30/04	8260b	---	4.3	90	109.3	104
m,p-Xylenes	<2	µg/L	2	<2	07/30/04	8260b	---	1.9	112	108.9	106.1
o-Xylene	<1	µg/L	1	<1	07/30/04	8260b	---	4.7	110.9	111.3	109.2
Toluene	<1	µg/L	1	<1	07/30/04	8260b	J	6.2	108.1	114.9	107.6
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	5.5	37.4	88.1	43.9
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	0.8	39.3	104.5	47.6
Anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	8.2	50.6	101.9	57.1
Benzof[a]anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	6.5	41.7	91.6	56.2
Benzof[a]pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	17.8	28.9	98.6	59.4
Benzof[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	7.7	27.9	82.1	45.9
Benzof[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.8	37.4	110.2	62.1
Benzof[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	3.6	38.4	108.4	63.4
Chrysene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	6.8	47.1	110.6	63
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.8	36.2	108.7	61.2
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	0.4	55.7	107.7	60.3
Fluorene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	14.1	43.8	83.6	46.3
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	5.3	35.4	109.6	61.1

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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 & SI =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.



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: 2002-10235

Sample Name: LEHG072604MW-11

Report#/Lab ID#: 157902

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	101	39-110	---
	610 & 8270c	144	12-110	X
	610 & 8270c	145	25-110	X
1,2-Dichloroethane-d4 Toluene-d8	8260b	92.8	74-124	---
	8260b	106	89-115	---

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235
Sample Name: LEHG072604MW-11

Report#/Lab ID#: 157902
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	08/03/04	610 & 8270c	J	14.1	29.4	80.7	22.8
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	J	4.7	45.1	83.7	46.6
Pyrene	<0.05	µg/L	0.05	<0.05	08/13/04	610 & 8270c	---	1.1	55.2	100	58.3

Exceptions Report:

Report #/Lab ID#: 157902 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10235
Sample Name: LEHG072604MW-11

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
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.
Nitrobenzene-d5	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Nitrobenzene-d5	X	
Terphenyl-d14	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Terphenyl-d14	X	

Notes:

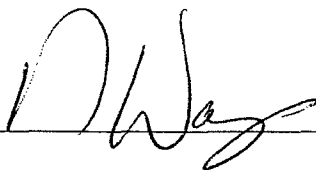
Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 2002-10235

Attn: Iain Olness

for Sample #'s: 157899 thru 157902

Analyzed by AnalySys, Inc.

Final Review Date: 8/16/2004 By:  (R. Elton)

Case Narrative:

The recoveries of the Semi-volatile organic surrogate Terphenyl-d14 for sample #'s 157901 and 157902, and the Semi-volatile organic surrogate Nitrobenzene-d5 for sample # 157902 were above normal laboratory acceptance criteria. However, no Semi-volatile organic compounds were detected in either of the above referenced samples, indicating that this potential "high" bias had no impact on data usability.

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#: 160508
Project ID: 2002-10235

Sample Name: PAAHG101104MW-5

Sample Matrix: water

Date Received: 10/14/2004 **Time:** 14:00

Date Sampled: 10/11/2004 **Time:** 08:18

Report Date: 10/21/04

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
Volatiles organics-8260b/BTEX	---		---		10/19/04	8260b(5030/5035)	---	---	---	---	---
Benzene	312	µg/L	10	<10	10/21/04	8260b	---	4.8	117.8	99.7	104.9
Ethylbenzene	26.4	µg/L	1	<1	10/19/04	8260b	---	0.4	115.5	110	103.1
m,p-Xylenes	<2	µg/L	2	<2	10/19/04	8260b	---	2.2	113.4	109.7	104
o-Xylene	42.7	µg/L	1	<1	10/19/04	8260b	---	0.7	127.7	114.6	106.7
Toluene	<1	µg/L	1	<1	10/19/04	8260b	J	1.4	108.5	107.5	107.2

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Respectfully Submitted,



Dale Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10235 Sample Name: PAAHG101104MW-5	Report#/Lab ID#: 160508 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	108	89-115	---

Data Qualifiers: D= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 160508 Matrix: water

Client: Environmental Plus, Inc.

Attn: Iain Olness

Project ID: 2002-10235

Sample Name: PAAHG10I104MW-5

Sample Temperature/Condition: $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. Possible exceptions include samples submitted to the 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).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:

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#: 160509 **Report Date:** 10/21/04
Project ID: 2002-10235
Sample Name: PAAHG101104MW-6
Sample Matrix: water
Date Received: 10/14/2004 **Time:** 14:00
Date Sampled: 10/11/2004 **Time:** 09:01

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	---		---		10/18/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.4	98.4	106.7	99.8
Ethylbenzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.2	111.5	117.5	113.9
m,p-Xylenes	<2	µg/L	2	<2	10/18/04	8260b	---	1.3	113.4	117.3	116.5
o-Xylene	<1	µg/L	1	<1	10/18/04	8260b	---	2	120.8	109.6	122.2
Toluene	<1	µg/L	1	<1	10/18/04	8260b	---	1.4	110.9	118.4	113.8

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,



Date Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10235
Sample Name: PAAHG101104MW-6

Report#/Lab ID#: 160509
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99	74-124	---
Toluene-d8	8260b	112	89-115	---

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

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#: 160510 **Report Date:** 10/21/04
Project ID: 2002-10235
Sample Name: PAAHG101104MW-7
Sample Matrix: water
Date Received: 10/14/2004 **Time:** 14:00
Date Sampled: 10/11/2004 **Time:** 09:41

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	---		---		10/18/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.4	98.4	106.7	99.8
Ethylbenzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.2	111.5	117.5	113.9
m,p-Xylenes	<2	µg/L	2	<2	10/18/04	8260b	---	1.3	113.4	117.3	116.5
o-Xylene	<1	µg/L	1	<1	10/18/04	8260b	---	2	120.8	109.6	122.2
Toluene	<1	µg/L	1	<1	10/18/04	8260b	---	1.4	110.9	118.4	113.8

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Respectfully Submitted,

D. Wagner

Date Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10235 Sample Name: PAAHG101104MW-7	Report#/Lab ID#: 160510 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.9	74-124	---
Toluene-d8	8260b	108	89-115	---

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

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#: 160511 **Report Date:** 10/21/04
Project ID: 2002-10235
Sample Name: PAAHG101104MW-11
Sample Matrix: water
Date Received: 10/14/2004 **Time:** 14:00
Date Sampled: 10/11/2004 **Time:** 10:10

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	---		---		10/18/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.4	98.4	106.7	99.8
Ethylbenzene	<1	µg/L	1	<1	10/18/04	8260b	---	2.2	111.5	117.5	113.9
m,p-Xylenes	<2	µg/L	2	<2	10/18/04	8260b	---	1.3	113.4	117.3	116.5
o-Xylene	<1	µg/L	1	<1	10/18/04	8260b	---	2	120.8	109.6	122.2
Toluene	<1	µg/L	1	<1	10/18/04	8260b	---	1.4	110.9	118.4	113.8

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Respectfully Submitted,

 Dale Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10235 Sample Name: PAAHG101104MW-11	Report#/Lab ID#: 160511 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.9	74-124	---
Toluene-d8	8260b	112	89-115	---

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

AnalySys Inc.

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

Chain of Custody Form

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																			
EPI Project Manager Iain Olness		PLAINS ATLANTIC PIPELINE L.P.																					
Mailing Address P.O. BOX 1558		c/o ENV Accounts Payable																					
City, State, Zip Eunice New Mexico 88231		PO Box 4648																					
EPI Phone# / Fax# 505-394-3481 / 505-394-2601		Houston, TX 77210-4648																					
Client Company Plains All American																							
Facility Name Hugh Gathering																							
Project Reference 2002-10235																							
EPI Sampler Name Manuel Gonzales																							
LAB I.D.	SAMPLE I.D.	# CONTAINERS	(G) RAB OR (C) OMP.	MATRIX				PRESERV.		SAMPLING													
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
160508	1 PAAHG101104MW-5	G	X	X						X	X		11-Oct	8:18	X								
160509	2 PAAHG101104MW-6	G	X	X						X	X		11-Oct	9:01	X								
160510	3 PAAHG101104MW-7	G	X	X						X	X		11-Oct	9:41	X								
160511	4 PAAHG101104MW-11	G	X	X						X	X		11-Oct	10:10	X								
5																							
6																							
7																							
8																							
9																							
10																							
Relinquished by: <i>Jan Olness</i>		Received By: Date: 10/13/04 Time: 1630		E-mail results to: iolness@hotmail.com and enviplus1@aol.com																			
Relinquished by:		Received By: (lab staff) <i>T. Long</i> 10/14/04		REMARKS: 14.08																			
Delivered by:		Sample Cool & Intact Yes No		Checked By: T: 55°C																			

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euless, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 162513 **Report Date:** 12/09/04
Project ID: 2002-10235
Sample Name: PAAHG120304MW-12
Sample Matrix: water
Date Received: 12/07/2004 **Time:** 10:45
Date Sampled: 12/03/2004 **Time:** 11:28

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
Volatile organics-8260b/BTEX	---		---		12/08/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/08/04	8260b	---	2	95	89.3	93.2
Ethylbenzene	<1	µg/L	1	<1	12/08/04	8260b	---	1.1	106.2	105.4	106.5
m,p-Xylenes	<2	µg/L	2	<2	12/08/04	8260b	---	2.7	103.4	106.9	105.1
o-Xylene	<1	µg/L	1	<1	12/08/04	8260b	---	1.8	111.1	114.2	111.5
Toluene	<1	µg/L	1	<1	12/08/04	8260b	---	4.2	99.9	116.5	96.7

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10235 Sample Name: PAAHG120304MW-12	Report#/Lab ID#: 162513 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	95.5	89-115	---

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

Analysys Inc.

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Chain of Custody Form

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																							
EPI Project Manager		Iain Olness		PLAINS ALL AMERICAN PIPELINE, L.P.		PRESERV.		SAMPLING		DATE		TIME		BTEX 8021B		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH	
Mailing Address		P.O. BOX 1558		c/o ENV Accounts Payable		ACID/BASE		OTHER		3-Dec		11:28		X															
City, State, Zip		Eunice New Mexico 88231		PO Box 4648		OTHER:																							
EPI Phone#/Fax#		505-394-3481 / 505-394-2601		Houston, TX 77210-4648		SLUDGE																							
Client Company		Plains All American				CRUDE OIL																							
Facility Name		Hugh Gathering				SOIL																							
Project Reference		2002-10235				WASTEWATER																							
EPI Sampler Name		Manuel Gonzales				GROUND WATER																							
						# CONTAINERS																							
						(G) RAB OR (C) OMP.																							
LAB I.D.		SAMPLE I.D.																											
162513		1PAAHG120304MW-12				G		3		X																			
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													

Sampler Requisitioned by: <i>Manuel Gonzales</i>		Date: 12/6/04		Received By:	
Requisitioned by: <i>Manuel Gonzales</i>		Time: 1630		Received By: (lab staff)	
Delivered by: <i>Manuel Gonzales</i>		Date: 12/7/04		Received By: <i>Manuel Gonzales</i>	
		Time: 1045		Checked By:	
				Sample Cool & Intact	
				Yes No	

E-mail results to: iolness@hotmail.com and enviplus1@aol.com

T: 23°C



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#: 163147 **Report Date:** 01/12/05

Project ID: 2003-10235

Sample Name: PAAHG122804MW-5

Sample Matrix: water

Date Received: 01/05/2005 **Time:** 08:35

Date Sampled: 12/28/2004 **Time:** 08:07

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		01/07/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1210	µg/L	10	<10	01/10/05	8260b	---	6.5	87.8	93.7	92.3
Ethylbenzene	121	µg/L	1	<1	01/07/05	8260b	---	7	96	103.2	101.8
m,p-Xylenes	10.3	µg/L	2	<2	01/07/05	8260b	---	6.4	92.5	97.5	96
o-Xylene	119	µg/L	1	<1	01/07/05	8260b	---	6	103.8	109	106.6
Toluene	4.84	µg/L	1	<1	01/07/05	8260b	---	6.6	97.1	102.7	99.3

QUALITY ASSURANCE DATA 1

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-10235

Sample Name: PAAHG122804MW-5

Report#/Lab ID#: 163147

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	116	74-124	---
Toluene-d8	8260b	99	89-115	---

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



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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#: 163148 Report Date: 01/12/05
Project ID: 2003-10235
Sample Name: PAAHG122804MW-6
Sample Matrix: water
Date Received: 01/05/2005 Time: 08:35
Date Sampled: 12/28/2004 Time: 08:42

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		01/10/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	01/10/05	8260b	---	6.5	87.8	93.7	92.3
Ethylbenzene	<1	µg/L	1	<1	01/10/05	8260b	---	7	96	103.2	101.8
m,p-Xylenes	<2	µg/L	2	<2	01/10/05	8260b	---	6.4	92.5	97.5	96
o-Xylene	<1	µg/L	1	<1	01/10/05	8260b	---	6	103.8	109	106.6
Toluene	<1	µg/L	1	<1	01/10/05	8260b	---	6.6	97.1	102.7	99.3

QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2003-10235 Sample Name: PAAHG122804MW-6	Report#/Lab ID#: 163148 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	95.4	89-115	---

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

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#: 163149 **Report Date:** 01/12/05
Project ID: 2003-10235
Sample Name: PAAHG122804MW-7
Sample Matrix: water
Date Received: 01/05/2005 **Time:** 08:35
Date Sampled: 12/28/2004 **Time:** 07:39

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		01/07/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	01/07/05	8260b	J	6.5	87.8	93.7	92.3
Ethylbenzene	<1	µg/L	1	<1	01/07/05	8260b	---	7	96	103.2	101.8
m,p-Xylenes	<2	µg/L	2	<2	01/07/05	8260b	---	6.4	92.5	97.5	96
o-Xylene	<1	µg/L	1	<1	01/07/05	8260b	---	6	103.8	109	106.6
Toluene	<1	µg/L	1	<1	01/07/05	8260b	J	6.6	97.1	102.7	99.3

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-10235

Sample Name: PAAHG122804MW-7

Report#/Lab ID#: 163149

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	98.4	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 163149	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2003-10235		
Sample Name: PAAHG122804MW-7		

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.

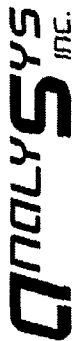
J flag Discussion:

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
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:



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Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report# / Lab ID#: 163150 Report Date: 01/12/05
Project ID: 2003-10235
Sample Name: PAAHG122804MW-11
Sample Matrix: water
Date Received: 01/05/2005 Time: 08:35
Date Sampled: 12/28/2004 Time: 09:28

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
Volatile organics-8260b/BTEX	---		---		01/07/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	01/07/05	8260b	---	6.5	87.8	93.7	92.3
Ethylbenzene	<1	µg/L	1	<1	01/07/05	8260b	---	7	96	103.2	101.8
m,p-Xylenes	<2	µg/L	2	<2	01/07/05	8260b	---	6.4	92.5	97.5	96
o-Xylene	<1	µg/L	1	<1	01/07/05	8260b	---	6	103.8	109	106.6
Toluene	<1	µg/L	1	<1	01/07/05	8260b	---	6.6	97.1	102.7	99.3

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-10235

Sample Name: PAAHG122804MW-11

Report#/Lab ID#: 163150
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	98.6	89-115	---

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

APPENDIX B - HUGH GATHERING SITE INFORMATION AND METRICS FORM



PLAINS
ALL AMERICAN

Site Information and Metrics

Incident Date:
9-4-02 @ 1:20 PM

NMOCD Notified:
9-4-02 @ 3:30 PM Larry Johnson by
Frank Hernandez

SITE: Hugh Gathering 090402		Assigned Site Reference #: 2002-10235	
Company: Plains Pipeline, L.P.		NATIONAL RESPONSE CENTER	
Street Address: 3705 East Highway 158 (79706)		Notified Date/Time: NA	
Mailing Address: PO Box 1339		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): 50 bbls		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: Hugh Gathering 090402			
Source of contamination: 6" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bryant			
LSP Dimensions 10' X 10'			
LSP Area: 100 sqft			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°29'11.007"N			
Longitude: 103°07'33.864"W			
Elevation above mean sea level: 3,425'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: SE¼ of the SE¼		Unit Letter: P	
Location- Section: 11			
Location- Township: T21S			
Location- Range: R37E			
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) 60'bgs			
Depth of contamination (DC) - 60'bgs			
Depth to ground water (DG - DC = DtGW) - zero feet			
1. Ground Water		2. Wellhead Protection Area	
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 = 10		Wellhead Protection Area Score=0	
Site Rank (1+2+3) = 10		Surface Water Score= 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

¹100 ppm field VOC headspace measurement may be substituted for lab analysis

APPENDIX C - HUGH GATHERING NMOCD FORM C-141

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2004

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company: Plains All American Pipeline	Contact: Camille Reynolds	
Address: PO Box 3119 (3705 Highway 158) Midland, Texas 79702 (79706)	Telephone No. 505.396.3341	
Facility Name Hugh Gathering #2002-10235	Facility Type 6" Steel Pipeline	
Surface Owner: Jimmy Bryant	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter P	Section 11	Township T21S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
-------------------------	----------------------	-------------------------	----------------------	------------------	---------------------	------------------	-------------------	----------------

Latitude: **32°29'11.007"N** Longitude: **103°07'33.864"W**

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 50 barrels	Volume Recovered 0 bbls barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 9-4-02 @ 1:20 PM	Date and Hour of Discovery 9-4-02 @ 1:30 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 9-4-02 @ 3:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*

6" Steel Pipeline The leak was due to internal/external corrosion. Near surface impacted soil was disposed of in an NMOCD approved landfarm.

Describe Area Affected and Cleanup Action Taken.*100 sqft 10' X 10': Site has been delineated and Rule 19 Abatement Plan submitted. Remedial Goals: TPH 8015m = 1000 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:	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@PAALP.com	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: 9/6/2002	Phone: 505.393.5611	

Attach Additional Sheets If Necessary