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386

REPORTS

DATE:

2006



PLAINS ALL AMERICAN

March 16, 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
One Site in Lea County, New Mexico

1R-386

2006 MAR 23 PM 1 23

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 the Annual Monitoring report for the following site:

Junction 34 to Lea

Section 21, Township 20 South, Range 37 East, Lea County

EPI prepared this document and has vouched for the accuracy and completeness. On behalf of Plains All American, I have personally reviewed the document and interviewed EPI in order to verify the accuracy and completeness of the document. It is based upon this inquiry and review that Plains All American submits the enclosed Annual Monitoring Report for the above-referenced facility.

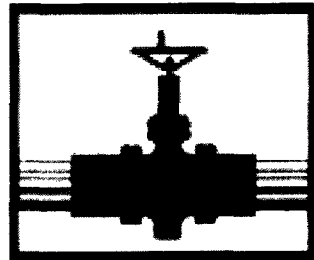
If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosure



PLAINS
ALL AMERICAN
PIPELINE, L.P.

*Entire report
is on the
L-Drive*

2005 ANNUAL MONITORING REPORT

PLAINS PIPELINE, L.P.

JUNCTION 34 TO LEA

PLAINS REF: 2002-10286

(COMPANY # 231735)

**NW¼ OF THE SW¼ OF SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO**

~9.8 MILES NORTHWEST (314°) OF EUNICE

LEA COUNTY, NEW MEXICO

LATITUDE: N32° 33' 18.8"

LONGITUDE: W103° 15' 39.7"

MARCH 2006

PREPARED BY:

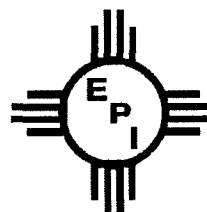
Environmental Plus, Inc.

2100 Avenue O
P.O. Box 1558
Eunice, NM 88231

Phone: (505)394-3481

FAX: (505)394-2601

jstegemoller@envplus.net



Distribution List

**Plains Pipeline, L.P. – Junction 34 to Lea
(Plains Ref.: 2002-10286; Company # 231735)**

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Camille Reynolds	Remediation Coordinator	Plains Pipeline, L.P.	3112 W. Hwy 82 Lovington, NM 88260	cjreynolds@paalp.com
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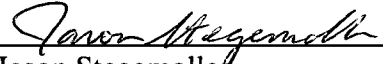
STANDARD OF CARE

Annual Monitoring Report

Junction 34 to Lea
Ref. # 2002-10286

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:

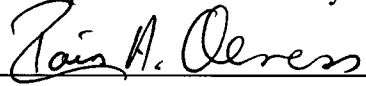


Jason Stegemoller
Environmental Scientist

13 March 2006

Date

This report was reviewed by:



Iain A. Olness, P.G.
Hydrogeologist

13 March 2006

Date

TABLE OF CONTENTS

I.	Background	1
II.	Field Activities	1
III.	Groundwater Gradient and PSH Thickness	2
IV.	PSH Recovery	2
V.	Groundwater Sampling	3
VI.	Groundwater Analytical Results	3
VII.	Recommendations	5

FIGURES

Figure 1	Area Map
Figure 2	Site Location Map
Figure 3	Site Map
Figure 4	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-1 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 5	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-2 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 6	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 7	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-4 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 8	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 9	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 10	TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.
Figure 11	Hydrograph for the Groundwater Monitoring Well Network, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico, from 02/11/03 through 12/31/05.
Figure 12	Groundwater Contour Map – 03/29/05

Figure 13	Contaminant Concentration Map – 03/29/05
Figure 14	Groundwater Contour Map – 05/11/05
Figure 15	Contaminant Concentration Map – 05/11/05
Figure 16	Groundwater Contour Map – 08/16/05
Figure 17	Contaminant Concentration Map – 08/16/05
Figure 18	Groundwater Contour Map – 11/15/05
Figure 19	Contaminant Concentration Map – 11/15/05
Figure 20	Proposed Monitor Well Location Map

TABLES

Table 1	Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses
Table 2	Summary of Groundwater Analytical Results
Table 3	Summary of Poly-Aromatic Hydrocarbons (PAH) Analytical Results
Table 4	Summary of Groundwater Sampling Recommendations

APPENDIX

Appendix A	Laboratory Analytical Results and Chain-of-Custody Forms
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I. Background

The "Junction 34 to Lea" (2002-10286) release site is located approximately 10-miles northwest of Eunice in Lea County, New Mexico, at an elevation of approximately 3,505 feet above mean sea level (reference *Figures 1 and 2*). The site is located in the northwest quarter of the southwest quarter of section 21, range 37 east, township 20 south. There are no residences or surface water bodies within a 1,000-foot radius of the leak site.

The initial New Mexico Oil Conservation Division (NMOCD) notification form C-141 submitted by EOTT reported approximately 300 barrels of crude oil released with 190 barrels recovered. The release is believed to have been due to internal corrosion of the pipeline. The release covered approximately 10,769 square feet of pipeline right-of-way, caliche road and land owned by the Deck Estate.

Upon discovery of the release on November 6, 2002, Environmental Plus, Inc. (EPI) and EOTT personnel mobilized to the site, exposed the pipeline and installed a pipe repair clamp. In addition, the surficial saturated soil was excavated and hauled to an approved land farm. Following the removal of the surficial saturated soil, an additional ~50 cubic yards of impacted soil in the vicinity of the release source were excavated and hauled to an approved land farm.

During initial investigative activities conducted from February 6-11, 2003, which included the advancement of nine soil borings, it was determined that groundwater, situated approximately 20 feet below ground surface (bgs), had been impacted. Three of the soil borings were completed as groundwater monitoring wells to monitor contaminant levels and/or recover phase separated hydrocarbons (PSH) (reference *Figure 3*). Upon completion of the soil borings and installation of the three groundwater monitoring wells, mitigation activities commenced, specifically, the excavation of impacted soil to a depth of approximately 25 feet bgs. This soil was stockpiled within a fenced area.

Due to fact that soil and groundwater had been impacted above NMOCD remedial thresholds, a *Groundwater and Soil Remediation Proposal* was submitted in June 2003. This plan recommended to a) treat hydrocarbons in groundwater with *in-situ* activated carbon; b) backfill the excavation with blended soil; c) cap the excavation with a compacted clay barrier; d) backfill with three feet of native topsoil; and e) re-vegetate to landowner specifications.

In April 2004, an *Annual Monitoring Report* was submitted to the NMOCD documenting the results of the 2003 sampling and field activities. In addition, the report recommended continued quarterly sampling of the groundwater monitoring well network and semi-monthly gauging/recovery of PSH and semi-monthly gauging of water levels.

In May 2004, four additional monitor wells (MW-4 through 7) were installed to delineate the lateral extent of hydrocarbon impacts to the aquifer. In July 2004, a water sparging system was installed at the site. The sparging system consisted of perforated poly-vinyl chloride (PVC) piping attached to an air compressor. The perforated PVC piping was laid in the water pools located in the base of the excavation and air was blown through the piping in order to aerate the water.

In February 2005, an *Annual Monitoring Report* was submitted to the NMOCD documenting the results of the 2004 sampling and field activities. In addition, the report recommended continued quarterly sampling of the groundwater monitoring well network and semi-monthly gauging/recovery of PSH and semi-monthly gauging of water levels, as well as the installation of three additional monitor wells.

II. Field Activities

Site visits were made to the site on January 10, February 21, April 22, May 6, July 19 and October 5, 2005 to record PSH/groundwater levels and recover any PSH present in the groundwater monitoring wells.

Site visits were made on March 29, May 11, August 16 and November 15, 2005 to complete the aforementioned activities and collect groundwater samples for laboratory quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX). Additionally, the samples collected on March 29, 2005 were also submitted for laboratory quantification of poly-aromatic hydrocarbons (PAH).

III. Groundwater Gradient and PSH Thickness

The groundwater gradient is generally southerly. Monitoring wells were gauged prior to bailing to determine the depth to groundwater and the thickness of PSH, if present. Measurements of groundwater levels during the past year indicate, except for minor fluctuations, water levels rose approximately 0.25 feet during. PSH levels in the impacted monitoring well (MW-3) ranged from non-detectable to 0.01 feet (sheen). PSH (sheen) was only detected on the water column during three of the eight site visits conducted during the past year, with the last detection occurring in November. A summary of groundwater elevations and PSH thickness is included as *Table 1*.

IV. PSH Recovery

Recovery of PSH has been accomplished via absorbent socks during the past year. Due to the fact that PSH recovery is accomplished via absorbent socks and aeration of groundwater in the excavation, the volume of PSH recovered during the past year is not known. However, the absorbent socks are changed on approximately a monthly basis. In addition, absorbent booms were placed around the perimeter of the exposed groundwater in the excavation basin to recover PSH on the water surface and are changed quarterly. There has been no evidence of PSH (i.e., sheen) in the groundwater located in the open excavation since October 2004. The site is fenced and the exposed groundwater covered with netting to prevent wildlife and livestock from utilizing the water.

V. Groundwater Sampling

The groundwater monitoring well network was sampled on March 29, 2005 and the samples submitted for quantification of BTEX using EPA Method 8260b and PAHs via EPA Method 3610 and 8270c (reference *Table 4*).

The groundwater monitoring well network was sampled on May 11, 2005 and the samples submitted for quantification of BTEX using EPA Method 8260b. MW-3 was not sampled at this time due to sheen on water surface.

The groundwater monitoring well network was sampled on August 16 and November 15, 2005 and the samples submitted for quantification of BTEX via EPA Method 8260b.

The wells were 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 analyses.

VI. Groundwater Analytical Results

Analytical results for the samples from groundwater monitoring well MW-1 indicated benzene concentrations ranging from 1,240 micrograms per liter ($\mu\text{g/L}$) to 3,290 $\mu\text{g/L}$, toluene concentrations were non-detectable (ND) at or above laboratory method detection limits (MDL), ethylbenzene concentrations ranging from 1,340 $\mu\text{g/L}$ to 2,390 $\mu\text{g/L}$ and total xylene concentrations ranging from 114 $\mu\text{g/L}$ to 491 $\mu\text{g/L}$ (reference *Table 2*). The reported benzene concentrations were above the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards of 10 $\mu\text{g/L}$ for all four sampling events in 2005. The reported ethylbenzene concentrations were above the NMWQCC Groundwater Standards of 750 $\mu\text{g/L}$ for all four sampling events in 2005. The reported total xylene concentrations were above the NMWQCC Groundwater Standards of 620 $\mu\text{g/L}$ for all four sampling events in 2005. Toluene concentrations were below the NMWQCC Groundwater Standards of 750 $\mu\text{g/L}$ for all four sampling events in 2005. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations at 48.8 $\mu\text{g/L}$. PAH concentrations for total naphthalene were above the NMWQCC Groundwater Standard for total naphthalene plus monomethylnaphthalene of 30 $\mu\text{g/L}$.

Analytical results for samples collected from groundwater monitoring well MW-2 indicated benzene concentrations ranging from 66.8 $\mu\text{g/L}$ to 2,660 $\mu\text{g/L}$, toluene concentrations ranging from ND at or above MDL to 27.3 $\mu\text{g/L}$, ethylbenzene concentrations ranging from 72.9 $\mu\text{g/L}$ to 1,080 $\mu\text{g/L}$ and total xylene concentrations ranging from 11.3 $\mu\text{g/L}$ to 656 $\mu\text{g/L}$ (reference *Table 2*). The reported benzene concentrations were above the NMWQCC Groundwater Standards of 10 $\mu\text{g/L}$ for all four sampling events in 2005. The reported ethylbenzene concentrations were above the NMWQCC Groundwater Standards of 750 $\mu\text{g/L}$ for three of the four sampling events in 2005. The reported total xylene concentrations were above the NMWQCC Groundwater Standards of 620 $\mu\text{g/L}$ for one sampling event in 2005. Toluene concentrations were below the NMWQCC Groundwater Standards of 750 $\mu\text{g/L}$ for all four sampling events in 2005. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations at 42.9 $\mu\text{g/L}$. PAH concentrations for total naphthalene were above the NMWQCC Groundwater Standard for total naphthalene plus monomethylnaphthalene of 30 $\mu\text{g/L}$.

Analytical results for samples collected from groundwater monitoring well MW-3 indicated benzene concentrations ranging from 1,260 $\mu\text{g/L}$ to 6,980 $\mu\text{g/L}$, toluene concentrations ranging from 32.7 to 729 $\mu\text{g/L}$, ethylbenzene concentrations ranging from 470 to 1,370 $\mu\text{g/L}$ and total xylene concentrations ranging from 232 to 830 $\mu\text{g/L}$ (reference *Table 2*). The reported benzene concentrations were above the NMWQCC Groundwater Standards of 10 $\mu\text{g/L}$ for all three sampling events in 2005. The reported ethylbenzene concentrations were above the NMWQCC

Groundwater Standards of 750 µg/L for the first sampling event in 2004. The reported total xylene concentrations were above the NMWQCC Groundwater Standards of 620 µg/L for the first sampling event in 2005. Toluene concentrations were below the NMWQCC Groundwater Standards of 750 µg/L for all three sampling events.

Analytical results for samples collected from groundwater monitoring well MW-4 indicated benzene concentrations ranging from ND at or above the MDL to 2.64 µg/L, toluene concentrations were ND at or above the MDL, ethylbenzene concentrations ranging from 4.81 µg/L to 59.2 µg/L and total xylene concentrations ranging from ND at or above the MDL to 2.7 µg/L (reference *Table 2*). Reported concentrations for all organic analytes were below their respective NMWQCC Groundwater Standards for all four sampling events in 2005. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations at 39.2 µg/L. PAH concentrations for total naphthalene were above the NMWQCC Groundwater Standard for total naphthalene plus monomethylnaphthalene of 30 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-5 indicated benzene concentrations ranging from 10.6 µg/L to 60.0 µg/L, toluene concentrations were ND at or above the MDL, ethylbenzene concentrations ranging from 34.1 µg/L to 125 µg/L and total xylene concentrations ranged from ND to 6.69 µg/L (reference *Table 2*). The reported benzene concentrations were above the NMWQCC Groundwater Standards of 10 µg/L for all four sampling events in 2005. The reported total xylene concentrations were below the NMWQCC Groundwater Standards of 620 µg/L for all sampling events in 2005. Toluene and ethylbenzene concentrations were below the NMWQCC Groundwater Standards of 750 µg/L for all four sampling events. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations at 4.72 µg/L. PAH concentrations for total naphthalene were below the NMWQCC Groundwater Standard for total naphthalene plus monomethylnaphthalene of 30 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-6 indicated benzene concentrations ranging from ND at or above the MDL to 5.40 µg/L, toluene concentrations were ND at or above the MDL, ethylbenzene concentrations ranging from ND at or above the MDL to 2.16 µg/L and total xylene concentrations as ND at or above the MDL (reference *Table 2*). Reported concentrations for all organic analytes were below their respective NMWQCC Groundwater Standards for all four sampling events in 2005. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations as ND at or above the MDL.

Analytical results for samples collected from groundwater monitoring well MW-7 indicated benzene concentrations ranging from 995 µg/L to 3,270 µg/L, toluene concentrations were ND at or above the MDL, ethylbenzene concentrations ranging from 540 µg/L to 1,050 µg/L and total xylene concentrations ranging from 312 µg/L to 872 µg/L (reference *Table 2*). The reported benzene concentrations were above the NMWQCC Groundwater Standards of 10 µg/L for all four sampling events in 2005. The reported ethylbenzene concentrations were above the NMWQCC Groundwater Standards of 750 µg/L for three of the four sampling events in 2005. The reported total xylene concentrations were above the NMWQCC Groundwater Standards of 620 µg/L for one sampling event in 2005. Toluene concentrations were below the NMWQCC Groundwater Standards of 750 µg/L for all four sampling events. Analytical results for the sample collected on March 29, 2005, reported PAH concentrations at 31.9 µg/L. PAH

concentrations for total naphthalene were above the NMWQCC Groundwater Standard for total naphthalene plus monomethylnaphthalene of 30 µg/L.

A summary of groundwater analytical results is included as Tables 2 and 3 and copies of the analytical results and chain-of-custodies are included as Appendix A.

VII. Recommendations

Based on field monitoring and analytical results collected during the past year, the following recommendations are made:

- 1) Continue to monitor for the presence of PSH on a monthly basis. In addition, collect groundwater level data from the monitoring well network and check the operation of the water sparging system on a semi-monthly basis.
- 2) Conduct quarterly sampling activities of the groundwater monitoring well network and submit the samples for quantification of BTEX. Samples should be analyzed for the presence of poly-aromatic hydrocarbons (PAH) during the initial sampling event of 2005. Groundwater monitoring wells from which samples indicate concentrations above the NMWQCC standards for PAH should incorporate PAH quantification into the quarterly sampling plan.
- 3) Install three additional groundwater monitoring wells south of the excavation (reference *Figure 19*). These wells shall be utilized to delineate the lateral extent of impacted groundwater and to monitor the migration of the contaminant plume.

FIGURES

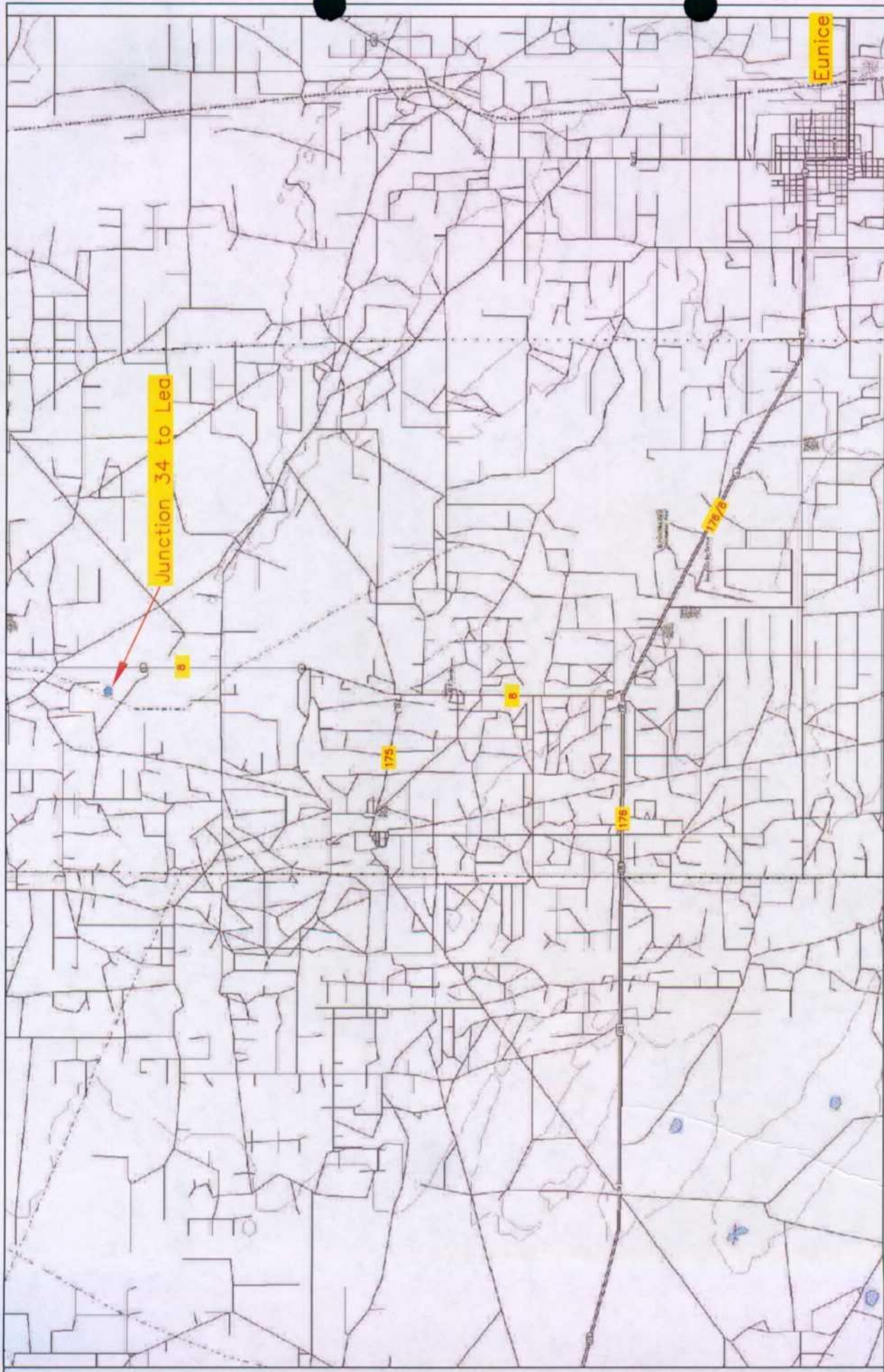


Figure 1 Area Map Plains All American Pipeline, LP Junction 34 to Lea	Lea County, New Mexico NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E N 32° 33' 18.8" W 103° 15' 39.7" Elevation: 3,505 feet amsl	DWG By: Iain Olness April 2004	REVISED: JAN 2005 16,000 8,000 0 SHEET 1 of 1 Feet
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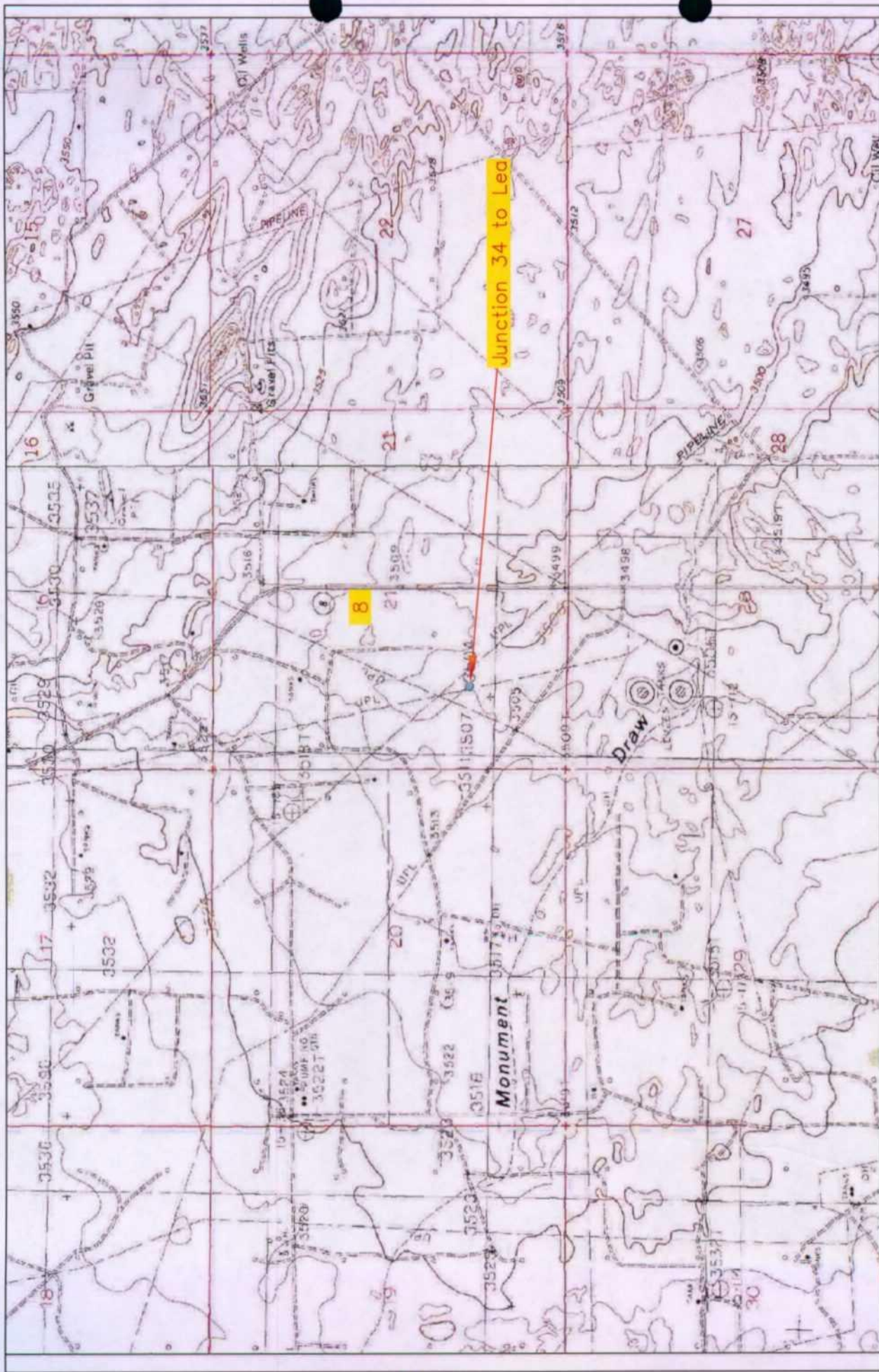
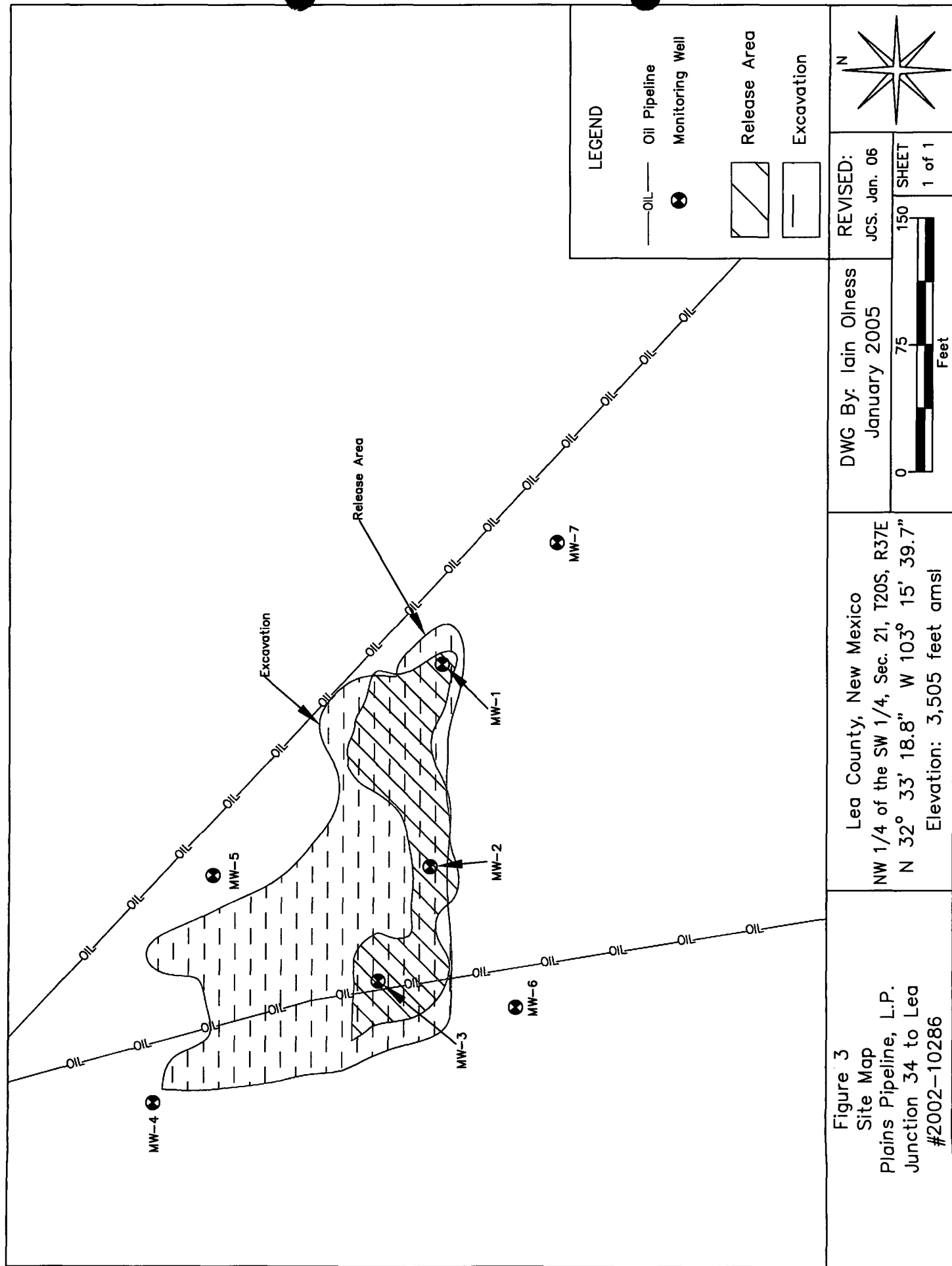


Figure 2 Site Location Map Plains All American Pipeline, LP Junction 34 to Lea	Lea County, New Mexico NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E N 32° 33' 18.8" W 103° 15' 39.7" Elevation: 3,505 feet amsl	DWG By: Iain Olness April 2004	REVISED: 0 2,000 4,000 Feet SHEET 1 of 1	N	0 2,000 4,000 Feet
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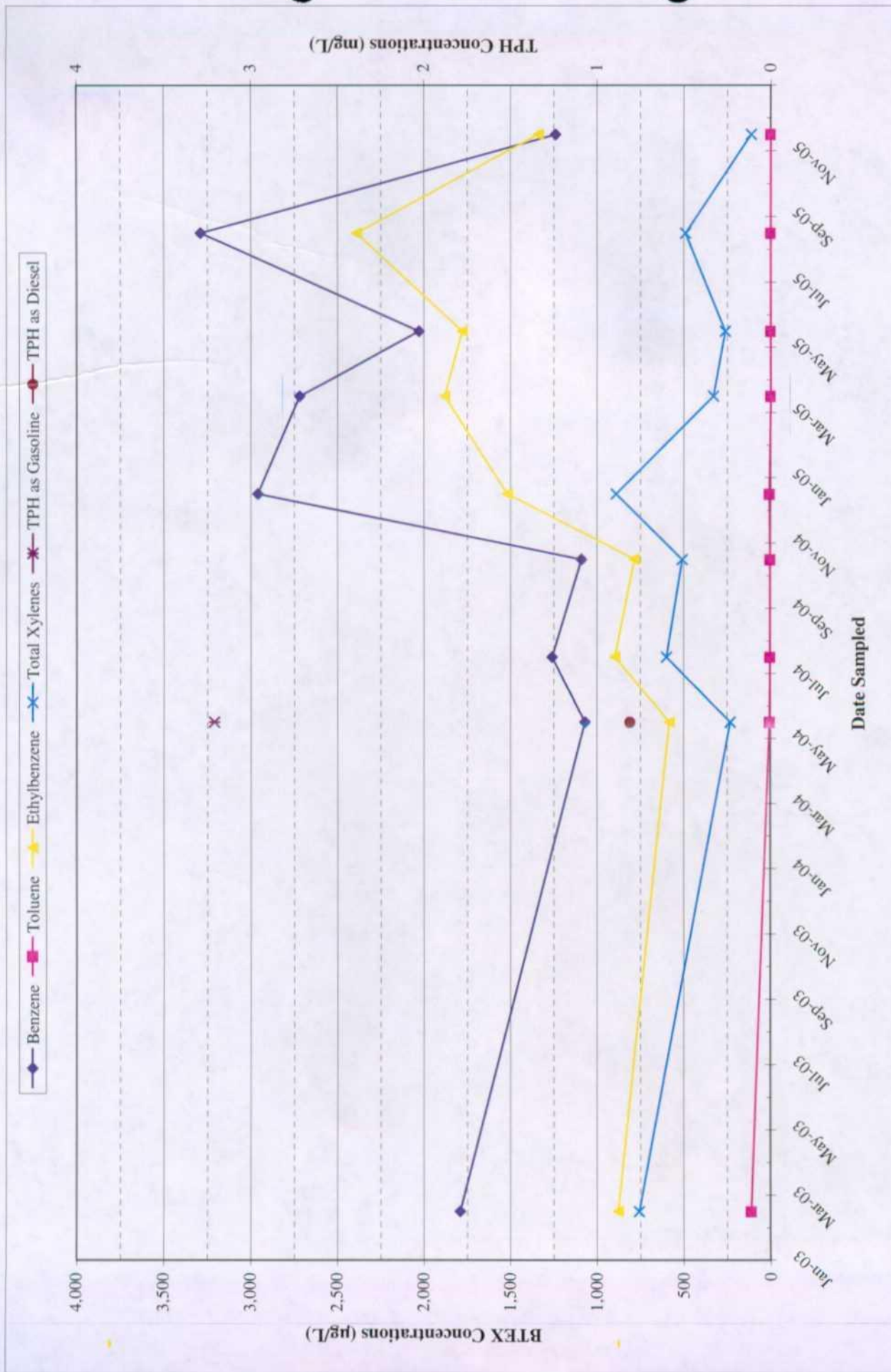


Figure 4: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-1 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

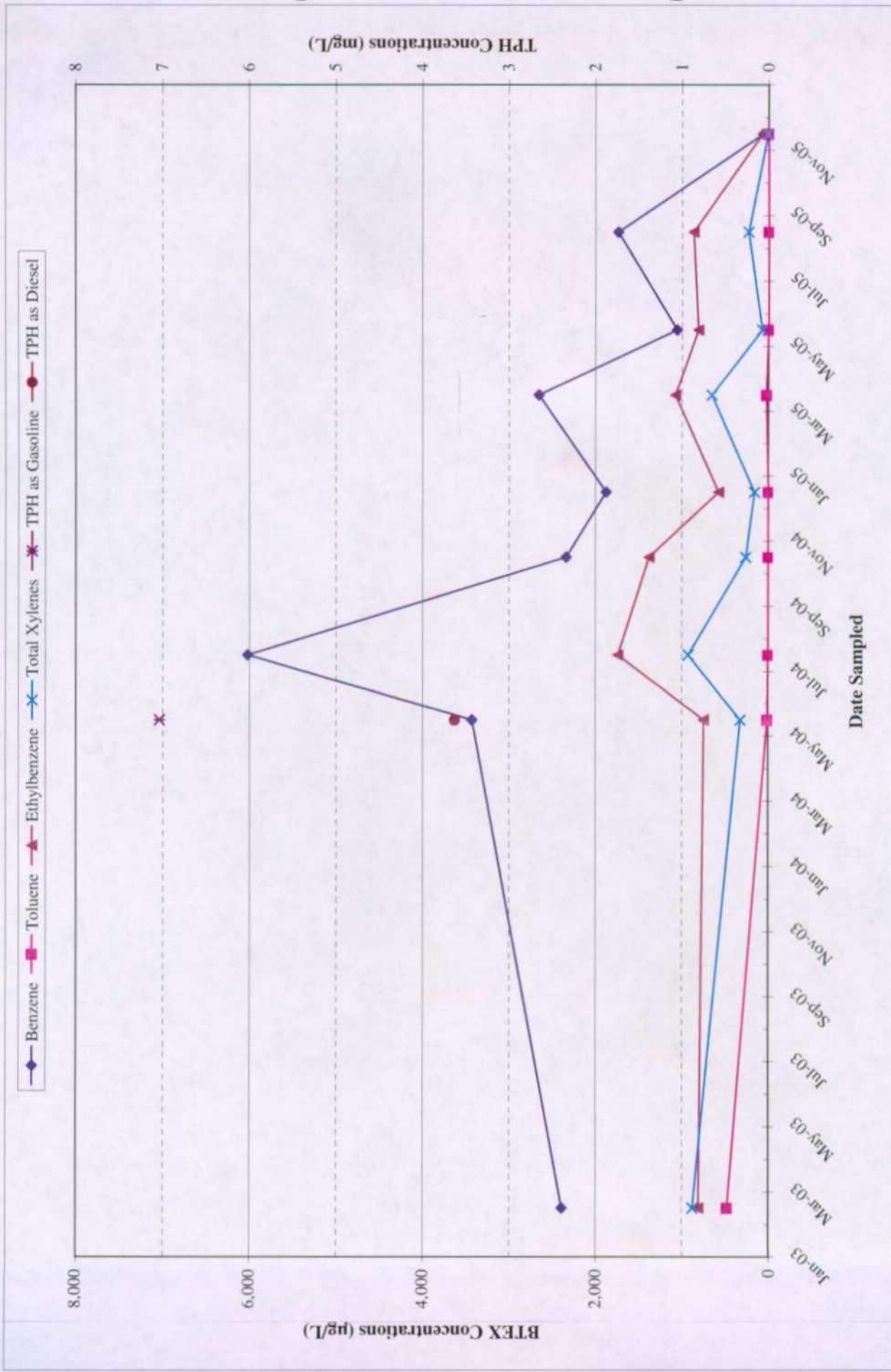


Figure 5: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-2 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

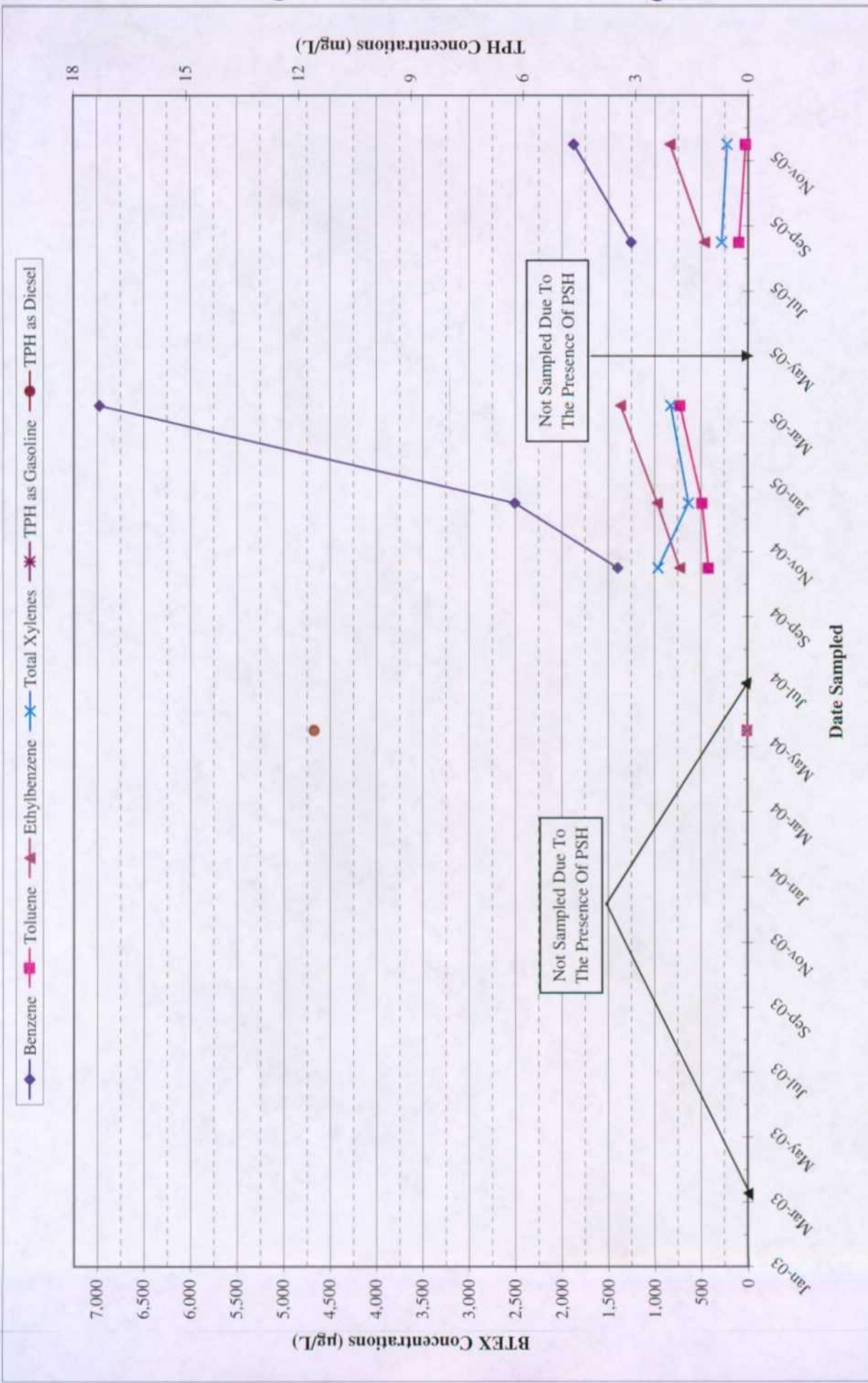


Figure 6: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-3 from 02/27/03 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

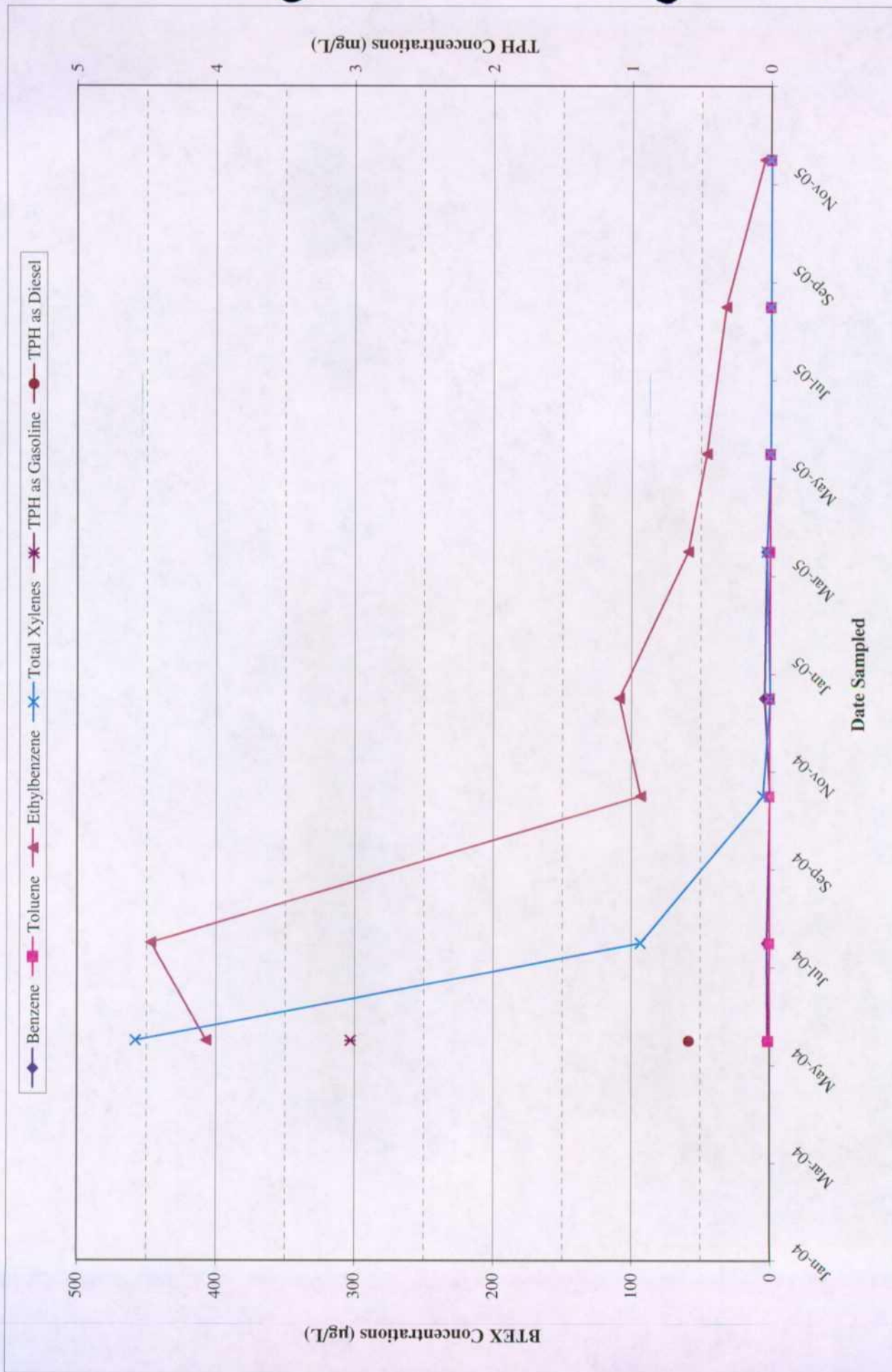


Figure 7: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-4 from 05/25/04 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

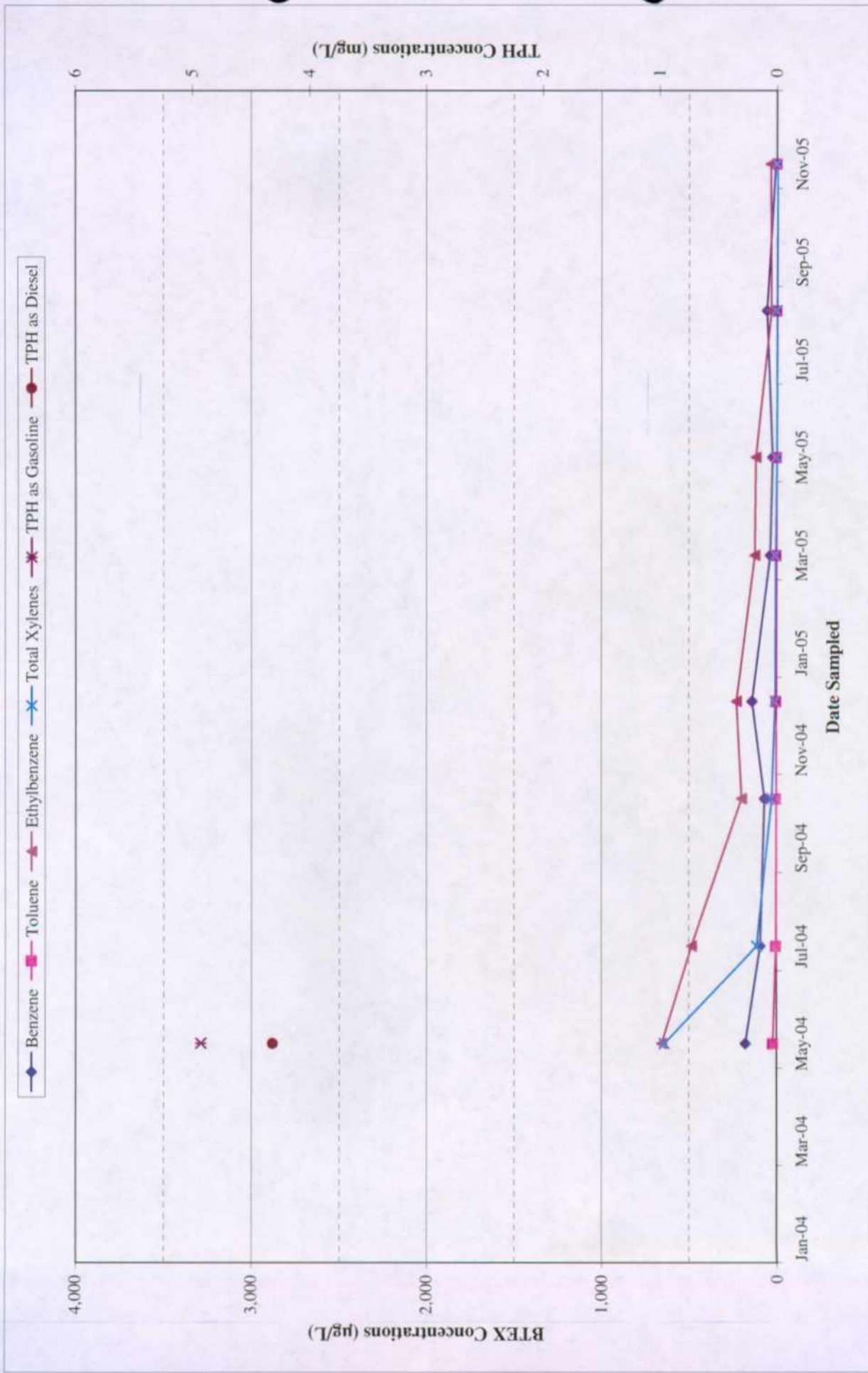


Figure 8: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-5 from 05/25/04 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

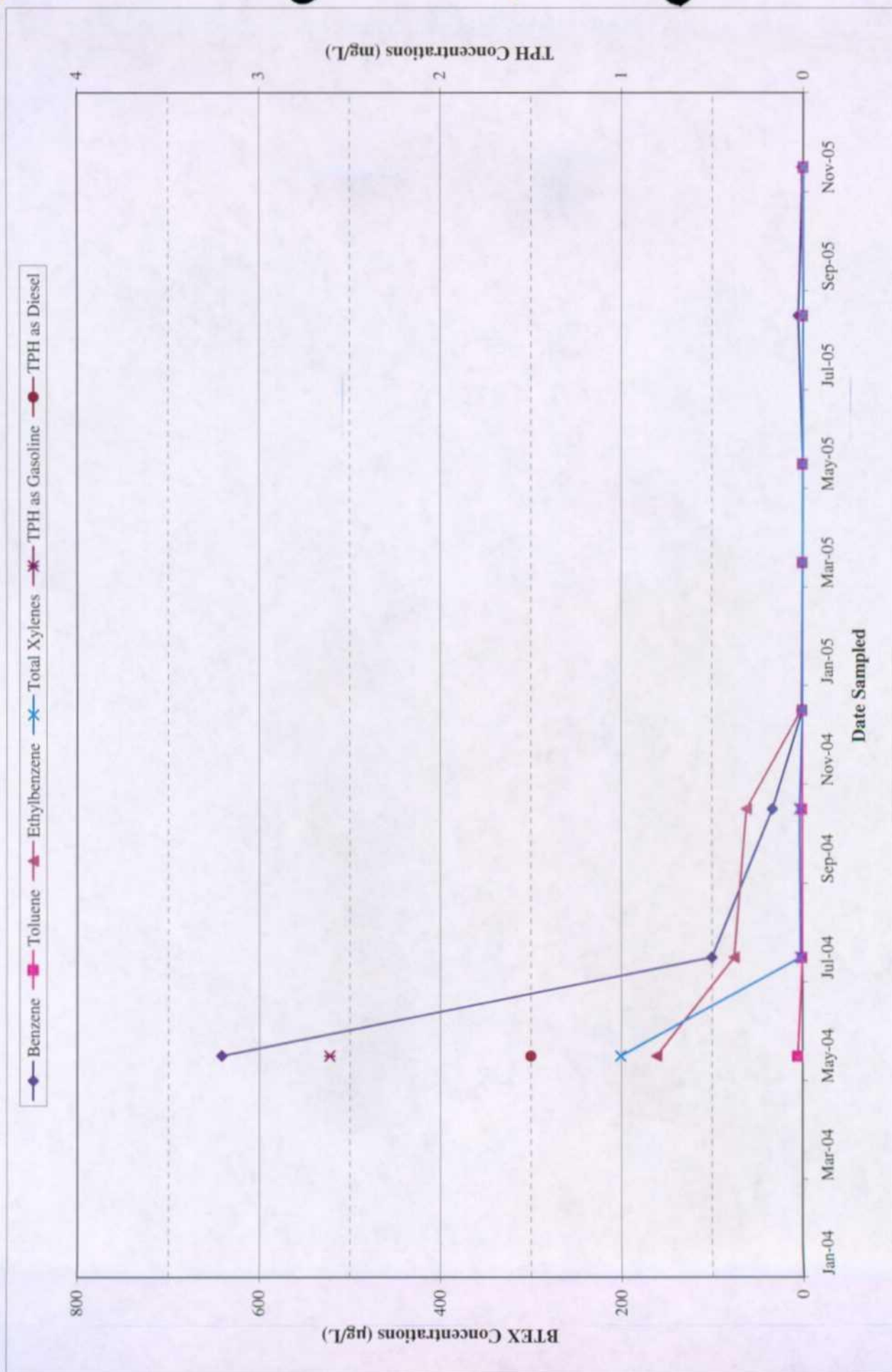


Figure 9: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-6 from 05/25/04 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

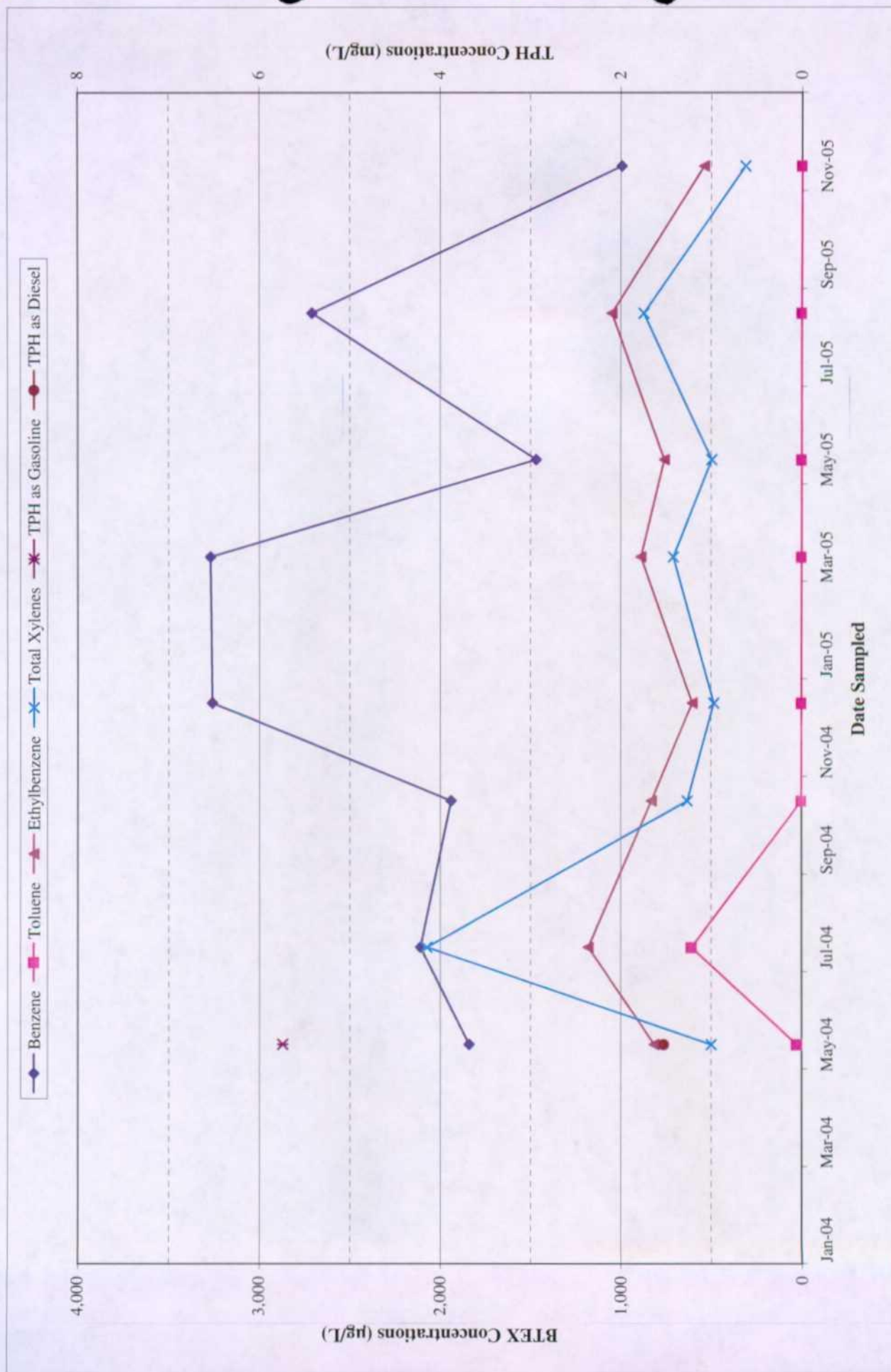


Figure 10: TPH and BTEX Concentrations in Groundwater Monitoring Well MW-7 from 05/25/04 through 12/31/05, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico.

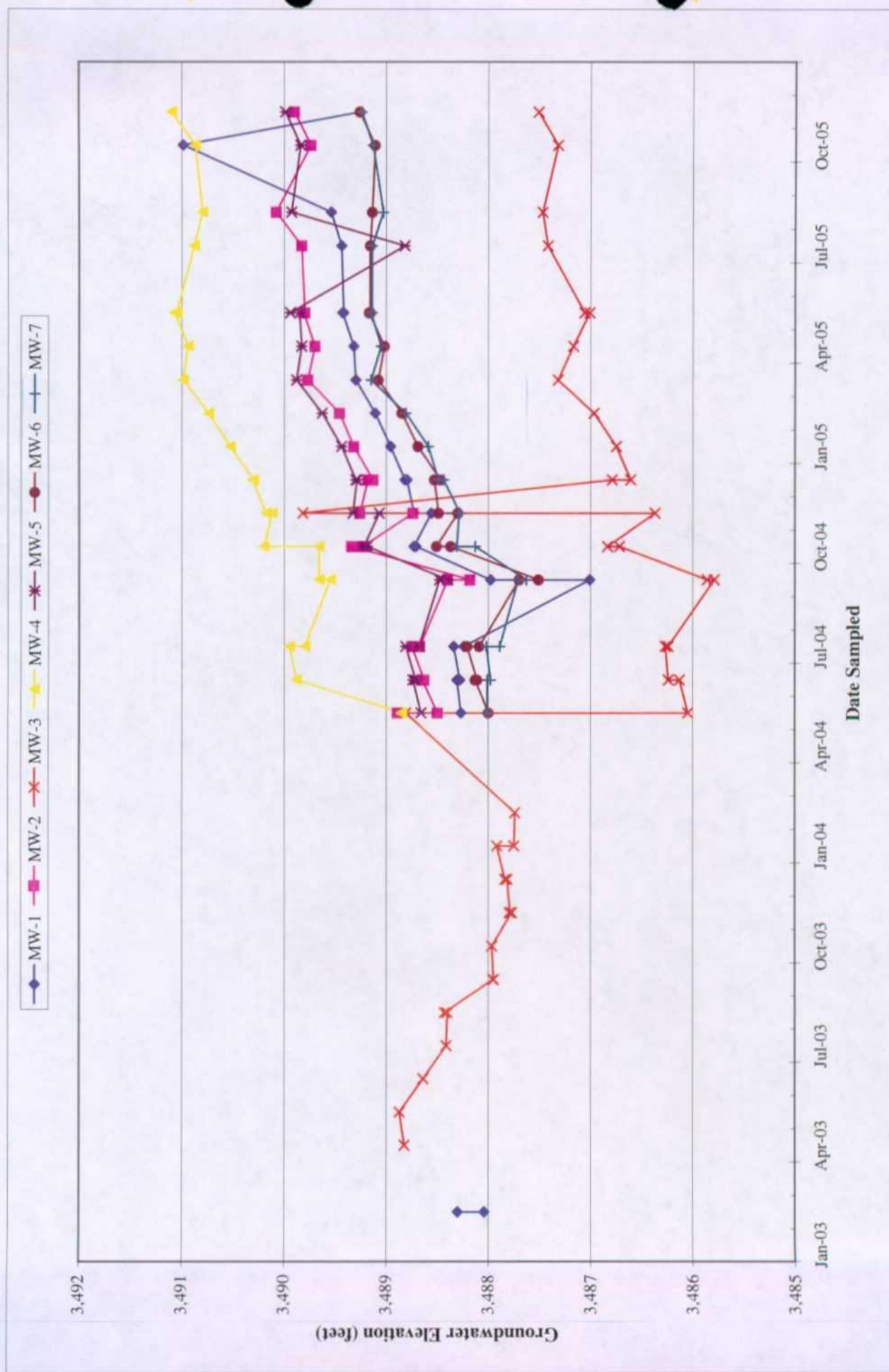
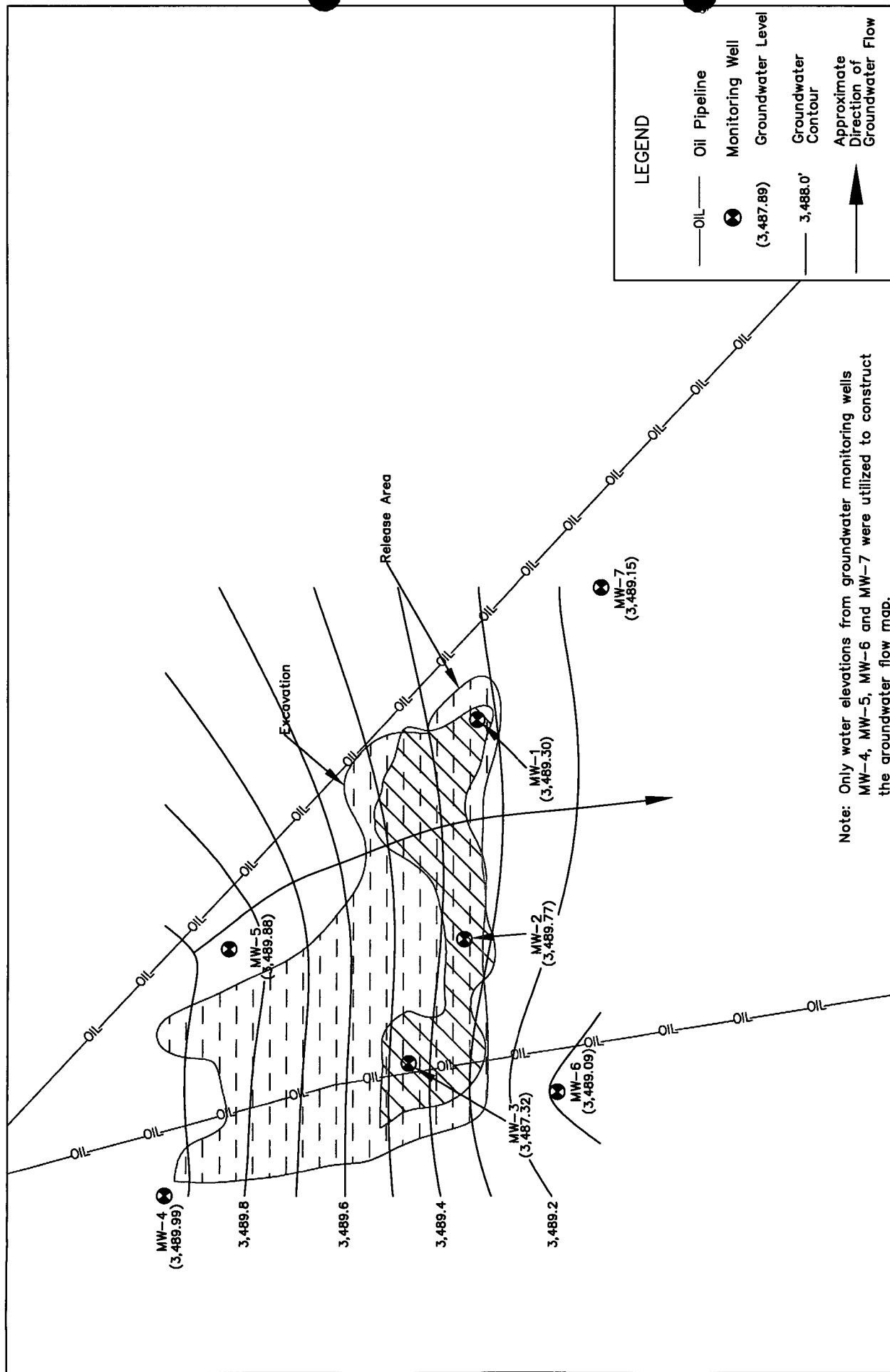
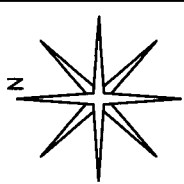


Figure 11: Hydrograph for the Groundwater Monitoring Well Network, Plains All American Pipeline Junction 34 to Lea, Lea County, New Mexico from 02/11/03 through 12/31/05.



LEGEND

- Oil Pipeline
- Monitoring Well
- Groundwater Level
- Groundwater Contour
- Approximate Direction of Groundwater Flow

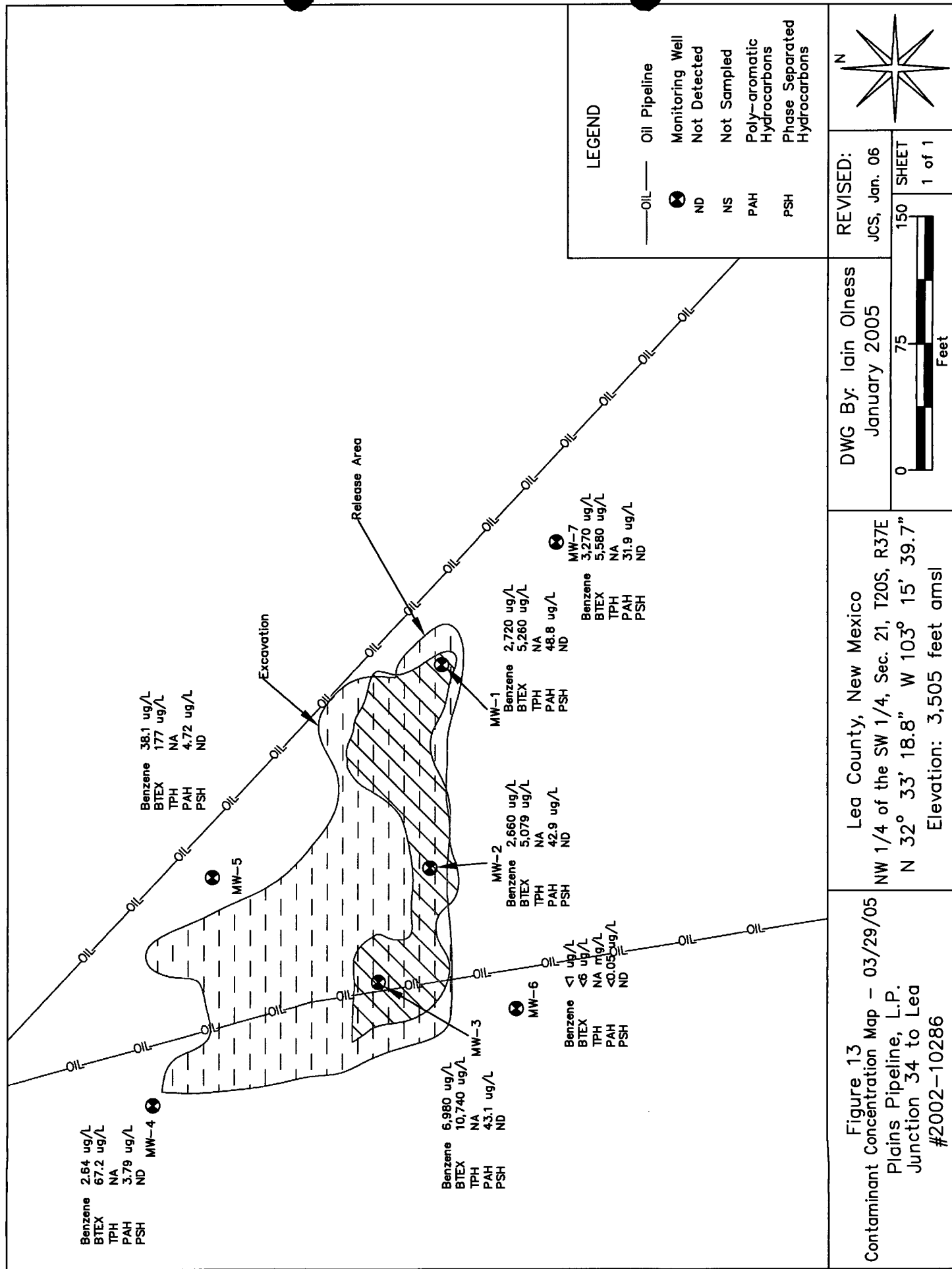


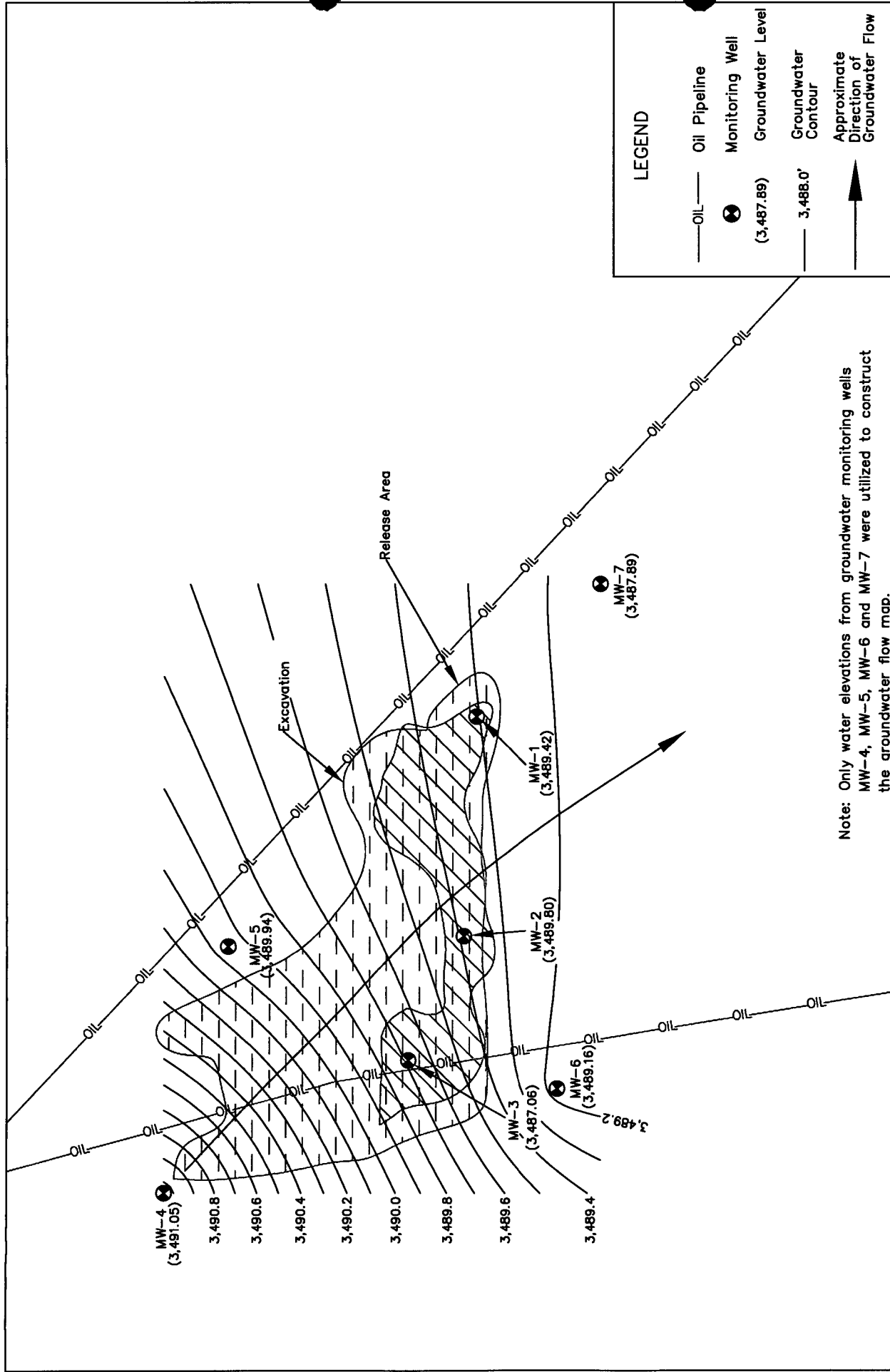
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JCS, Jan. 06
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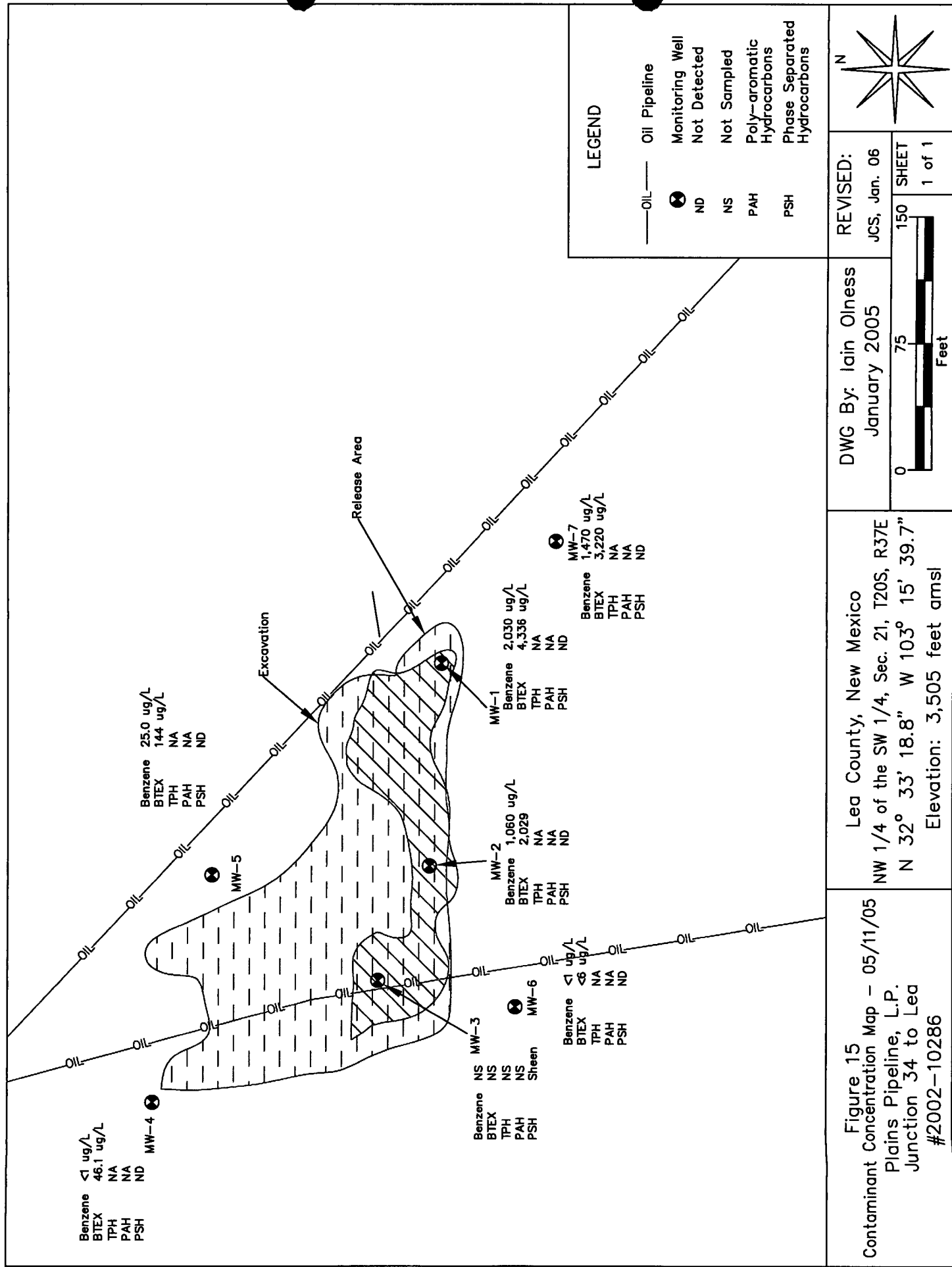
DWG By: Iain Olness
January 2005
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Feet

Lea County, New Mexico
NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E
N 32° 33' 18.8" W 103° 15' 39.7"
Elevation: 3,505 feet amsl

Figure 12
Groundwater Contour Map - 03/29/05
Plains Pipeline, L.P.
Junction 34 to Lea
#2002-10286





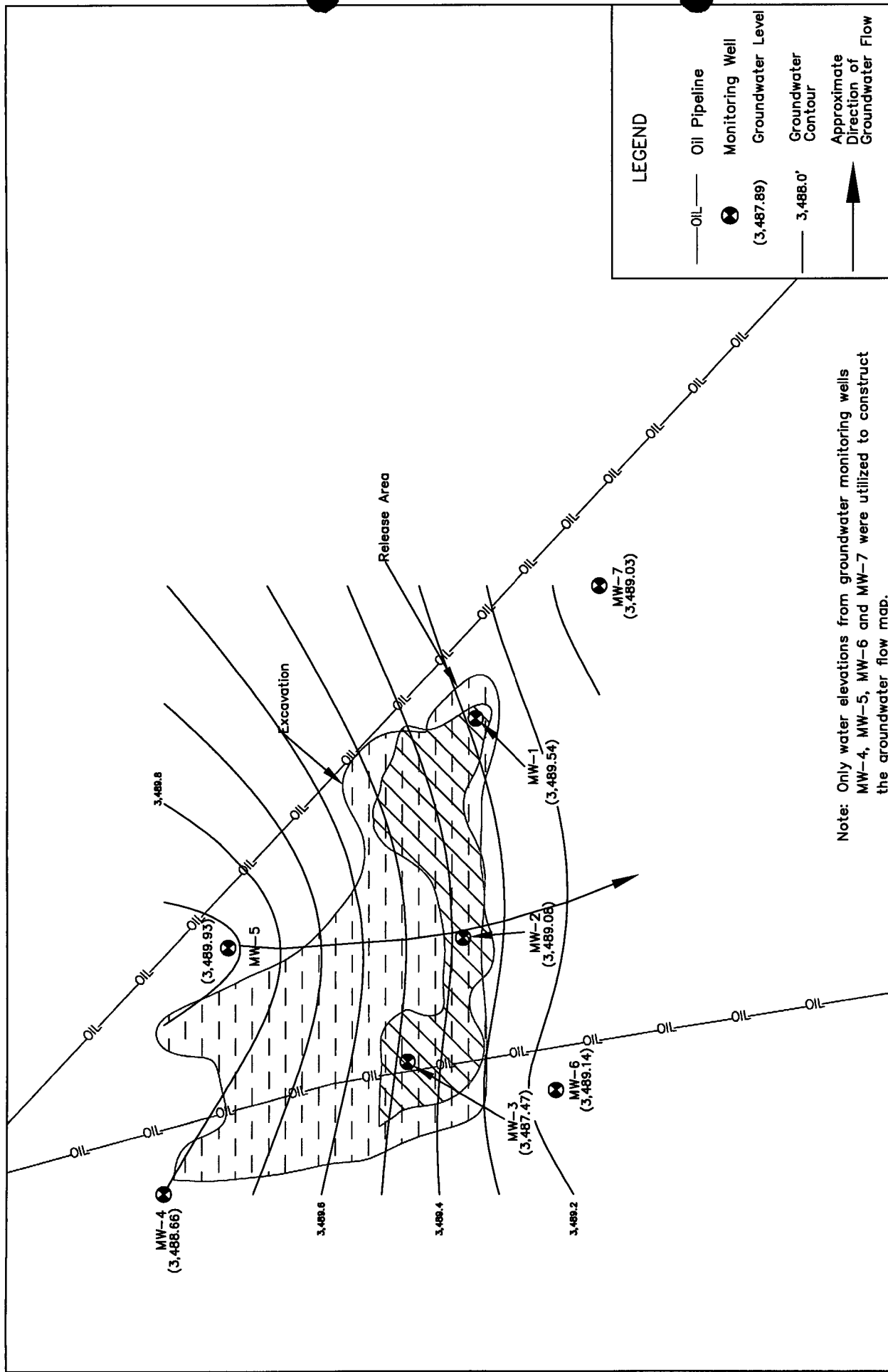


Lea County, New Mexico
 NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E
 N 32° 33' 18.8" W 103° 15' 39.7"
 Elevation: 3,505 feet amsl

DWG By: Iain Olness
 January 2005

REVISD:
 JCS, Jan. 06

SHEET
 150
 1 of 1

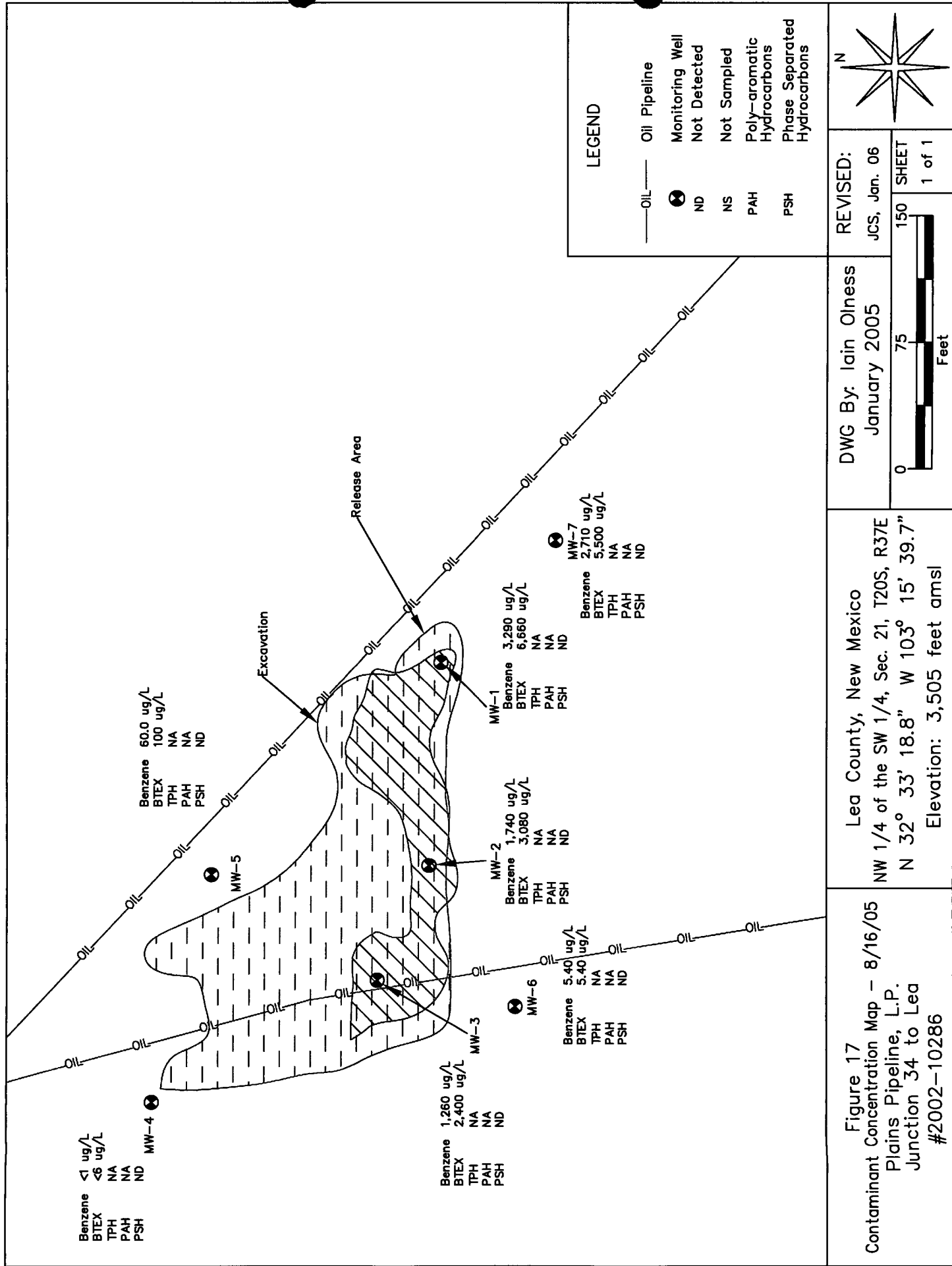


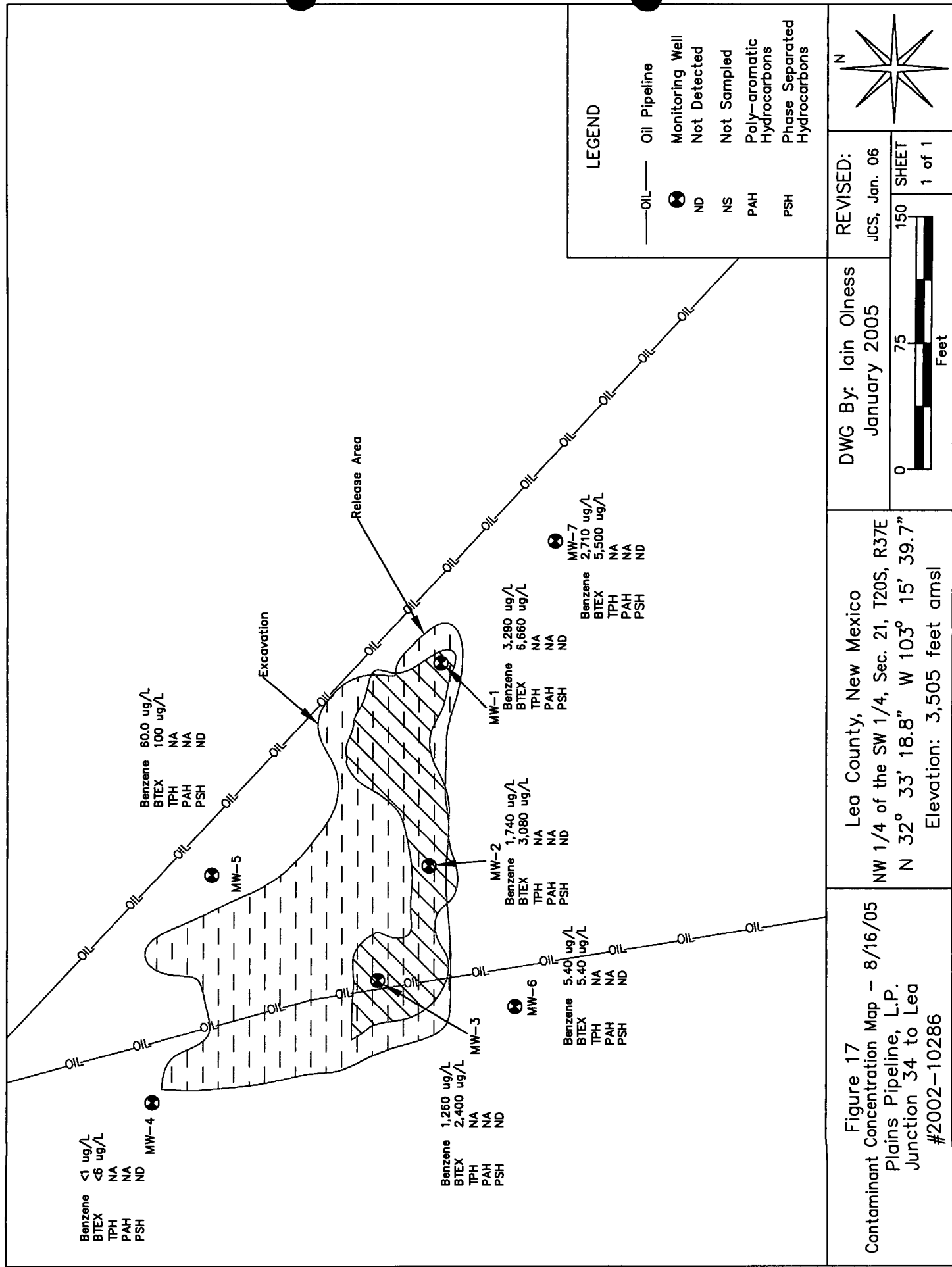
Note: Only water elevations from groundwater monitoring wells
MW-4, MW-5, MW-6 and MW-7 were utilized to construct
the groundwater flow map.

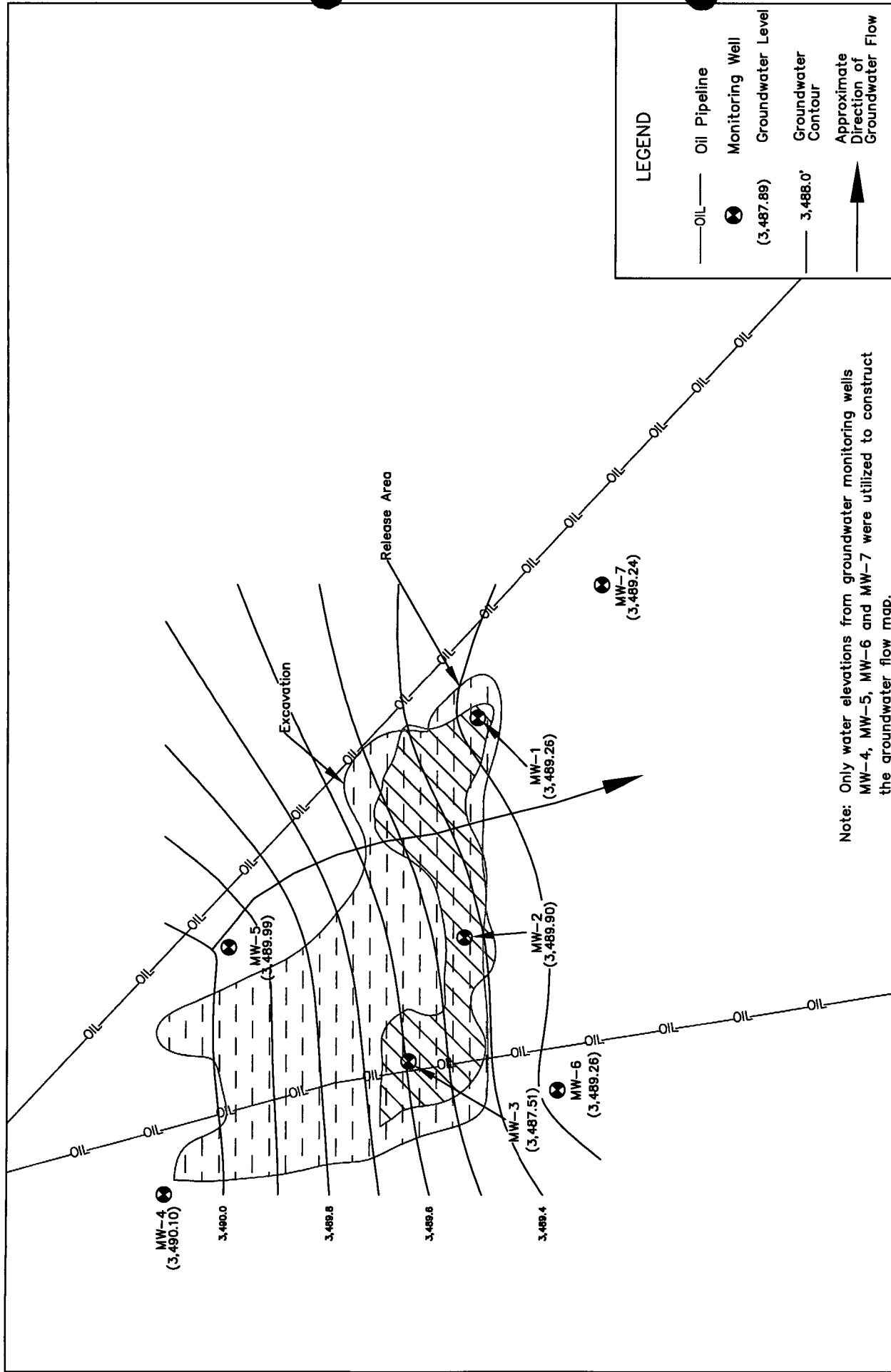
LEGEND

- Oil Pipeline
- Monitoring Well
- Groundwater Level
- Groundwater Contour
- Approximate Direction of Groundwater Flow

REVISED: JCS, Jan. 06	DWG By: Iain Olness January 2005	Figure 16 Groundwater Contour Map - 8/16/05 Plains Pipeline, L.P. Junction 34 to Lea #2002-10286
SHEET 150 1 of 1	Lea County, New Mexico NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E N 32° 33' 18.8" W 103° 15' 39.7" Elevation: 3,505 feet amsl	Scale: 0 75 150 Feet North Arrow

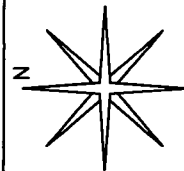






LEGEND

- OIL — Oil Pipeline
- ⊗ Monitoring Well
- (3,487.89) Groundwater Level
- 3,488.0' Groundwater Contour
- ➔ Approximate Direction of Groundwater Flow

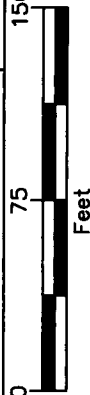


REVISED:

JCS, Jan. 06

SHEET
1 of 1

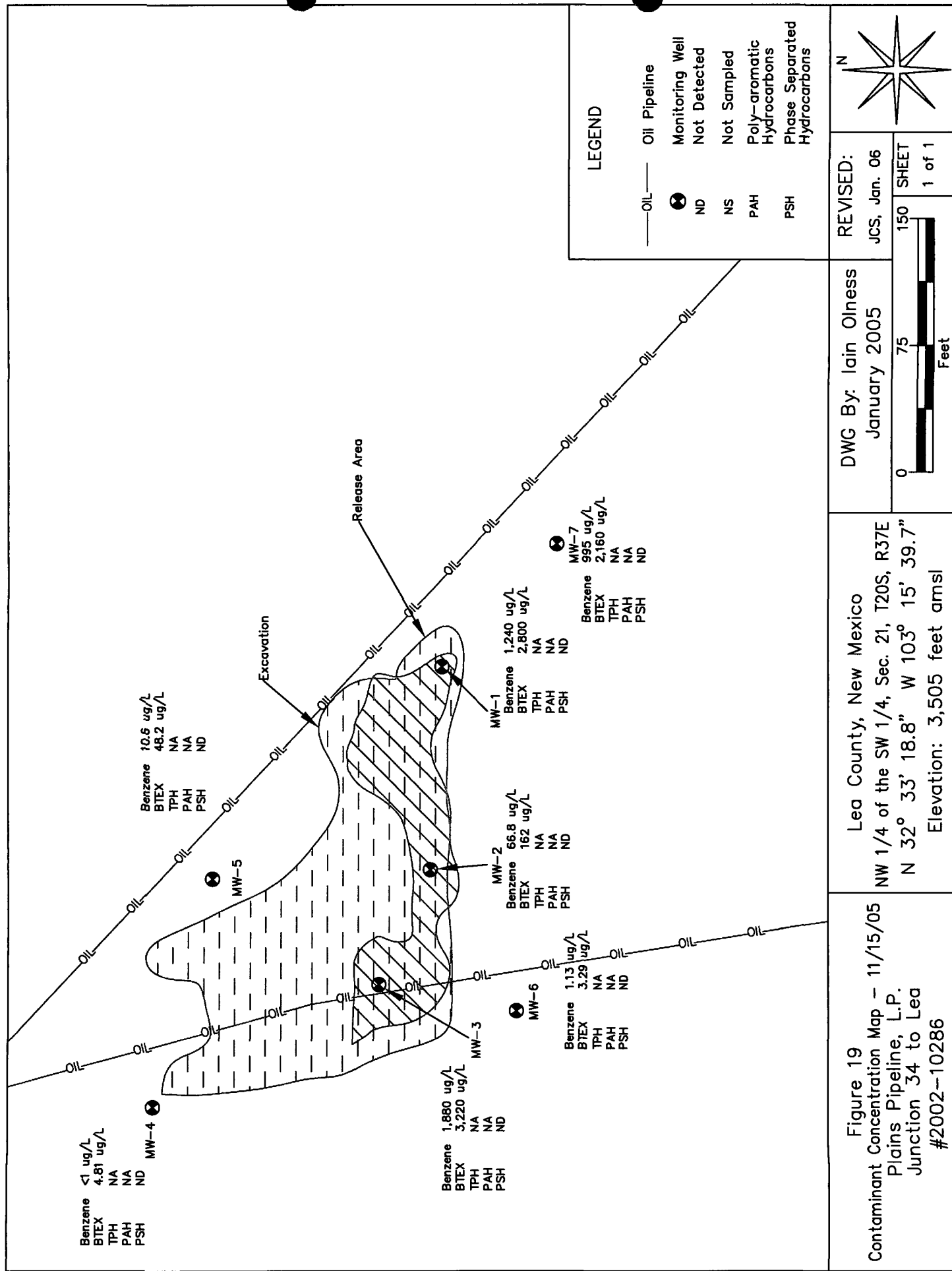
DWG By: Iain Olness
January 2005

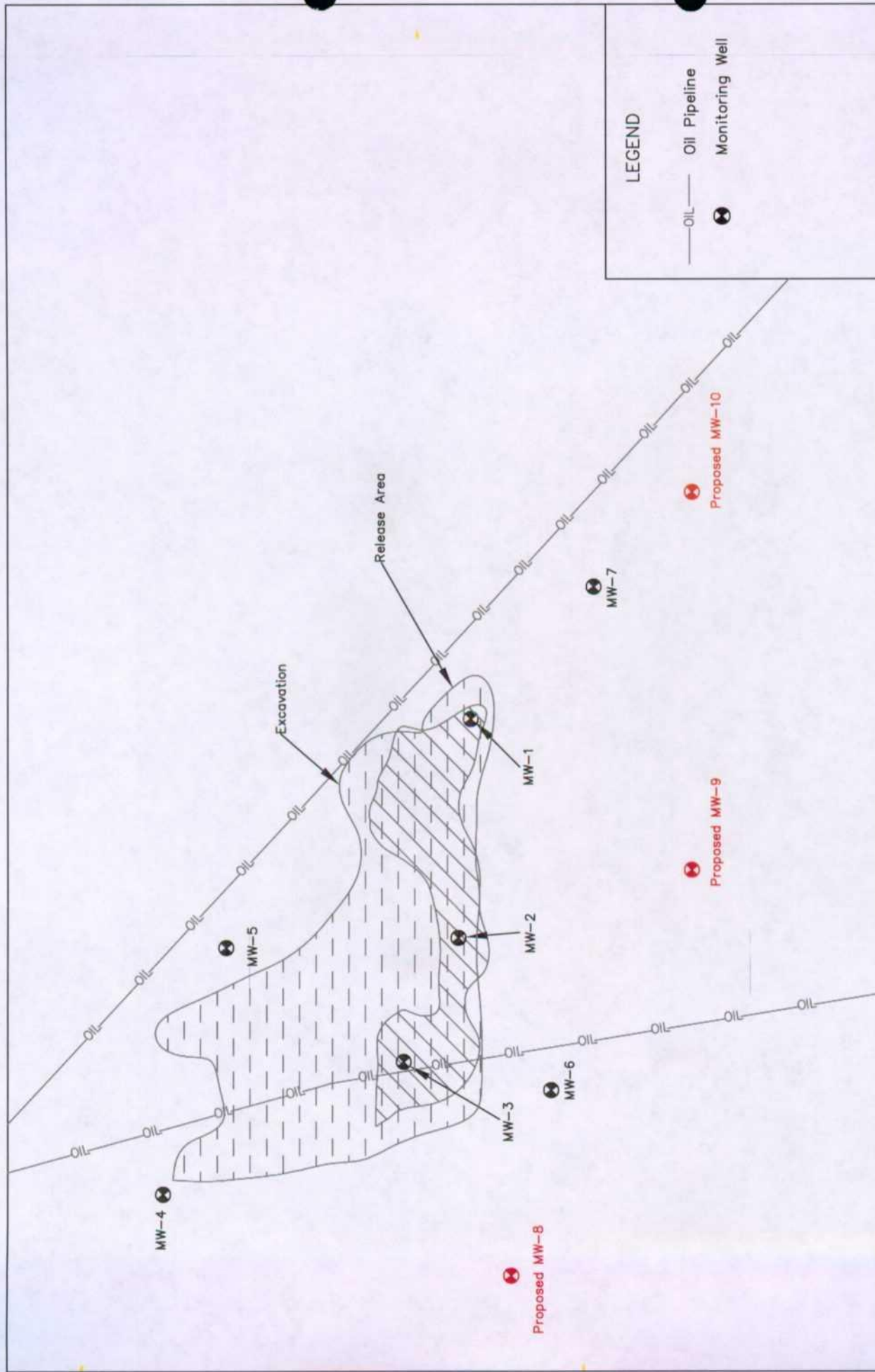


Note: Only water elevations from groundwater monitoring wells
MW-4, MW-5, MW-6 and MW-7 were utilized to construct
the groundwater flow map.

Lea County, New Mexico
NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E
N 32° 33' 18.8" W 103° 15' 39.7"
Elevation: 3,505 feet amsl

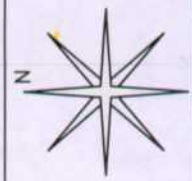
Figure 18
Groundwater Contour Map - 11/15/05
Plains Pipeline, L.P.
Junction 34 to Lea
#2002-10286





LEGEND

- OIL— Oil Pipeline
- ⊗ Monitoring Well



REVISED:
JCS, Jan. 06

SHEET
1 of 1

DWG By: Iain Olness
January 2005



Lea County, New Mexico
NW 1/4 of the SW 1/4, Sec. 21, T20S, R37E
N 32° 33' 18.8" W 103° 15' 39.7"
Elevation: 3,505 feet amsl

Figure 20
Proposed Monitoring Well Location Map
Plains Pipeline, L.P.
Junction 34 to Lea
#2002-10286

TABLES

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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	11-Feb-03	3,508.17	--	20.13	3,488.04	--
	27-Feb-03		--	19.87	3,488.30	--
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04		--	19.66	3,488.51	--
	25-May-04		--	19.90	3,488.27	--
	03-Jun-04		--	19.86	3,488.31	--
	15-Jun-04		--	19.89	3,488.28	--
	08-Jul-04		--	19.83	3,488.34	--
	26-Jul-04		--	19.93	3,488.24	--
	10-Sep-04		--	21.16	3,487.01	--
	21-Sep-04		--	20.19	3,487.98	--
	04-Oct-04		--	19.46	3,488.71	--
	15-Oct-04		--	19.44	3,488.73	--
	09-Nov-04		--	19.61	3,488.56	--
	16-Nov-04		--	19.44	3,488.73	--
	07-Dec-04		--	19.37	3,488.80	--
	17-Dec-04		--	19.35	3,488.82	--
	10-Jan-05		--	19.21	3,488.96	--
	21-Feb-05		--	19.06	3,489.11	--
	29-Mar-05		--	18.87	3,489.30	--
	22-Apr-05		--	18.85	3,489.32	--
	06-May-05		--	18.74	3,489.43	--
	11-May-05		--	18.75	3,489.42	--
	19-Jul-05		--	18.73	3,489.44	--
	16-Aug-05		--	18.63	3,489.54	--
	05-Oct-05		--	17.18	3,490.99	--
	15-Nov-05		--	18.91	3,489.26	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-2	11-Feb-03	3,501.45	--	17.25		--
	27-Feb-03		--	19.75		--
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04		--	12.56	3,488.89	--
	25-May-04		--	12.95	3,488.50	--
	03-Jun-04		--	12.80	3,488.65	--
	15-Jun-04		--	12.82	3,488.63	--
	08-Jul-04		--	12.70	3,488.75	--
	26-Jul-04		--	12.78	3,488.67	--
	10-Sep-04		--	13.05	3,488.40	--
	21-Sep-04		--	13.27	3,488.18	--
	04-Oct-04		--	12.11	3,489.34	--
	15-Oct-04		--	12.22	3,489.23	--
	09-Nov-04		--	12.71	3,488.74	--
	16-Nov-04		--	12.19	3,489.26	--
	07-Dec-04		--	12.27	3,489.18	--
	17-Dec-04		--	12.32	3,489.13	--
	07-Jan-05		--	12.13	3,489.32	--
	21-Feb-05		--	11.99	3,489.46	--
	29-Mar-05		--	11.68	3,489.77	--
	22-Apr-05		--	11.75	3,489.70	--
	06-May-05		--	11.64	3,489.81	--
	11-May-05		--	11.65	3,489.80	--
	19-Jul-05		--	11.62	3,489.83	--
	16-Aug-05		--	11.37	3,490.08	--
	05-Oct-05		--	11.71	3,489.74	--
	15-Nov-05		--	11.55	3,489.90	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-3	11-Feb-03	3,495.97	17.10	17.77		0.67
	27-Feb-03		16.64	19.15		2.51
	19-Mar-03		16.63	19.50		2.87
	03-Apr-03		16.65	19.47		2.82
	11-Apr-03		16.65	19.48		2.83
	21-Apr-03		16.62	18.98		2.36
	30-Apr-03		6.98	8.67	3,488.82	1.69
	05-May-03		6.93	8.63	3,488.87	1.70
	18-Jun-03		7.24	8.15	3,488.64	0.91
	09-Jul-03		7.49	8.18	3,488.41	0.69
	21-Jul-03		7.49	8.19	3,488.41	0.70
	12-Aug-03		7.50	8.20	3,488.40	0.70
	18-Aug-03		7.47	8.19	3,488.43	0.72
	03-Sep-03		7.96	8.52	3,487.95	0.56
	19-Sep-03		7.97	8.51	3,487.95	0.54
	02-Oct-03		7.95	8.50	3,487.97	0.55
	03-Nov-03		8.15	8.65	3,487.77	0.50
	13-Nov-03		8.14	8.51	3,487.79	0.37
	25-Nov-03		8.15	8.50	3,487.79	0.35
	02-Dec-03		8.15	8.20	3,487.82	0.05
	10-Dec-03		8.13	8.16	3,487.84	0.03
	02-Jan-04		8.05	8.08	3,487.92	0.03
	30-Jan-04		8.22	8.24	3,487.75	0.02
	06-Feb-04		8.23	8.24	3,487.74	0.01
	05-May-04		--	7.16	3,488.81	skim
	25-May-04		9.92	9.94	3,486.05	0.02
	03-Jun-04		--	9.84	3,486.13	skim
	15-Jun-04		--	9.73	3,486.24	--
	08-Jul-04		--	9.70	3,486.27	--
	26-Jul-04		--	9.73	3,486.24	--
	10-Sep-04		--	10.18	3,485.79	--
	21-Sep-04		--	10.11	3,485.86	--
	04-Oct-04		--	9.25	3,486.72	--
	15-Oct-04		9.13	9.16	3,486.84	0.03
	09-Nov-04		--	9.60	3,486.37	--
	16-Nov-04		--	6.15	3,489.82	--
	07-Dec-04		--	9.18	3,486.79	--
	17-Dec-04		--	9.36	3,486.61	--
	07-Jan-05		--	9.22	3,486.75	--
	21-Feb-05		--	9.00	3,486.97	--
	29-Mar-05		--	8.65	3,487.32	--
	22-Apr-05		--	8.80	3,487.17	--
	06-May-05		--	8.96	3,487.01	--
	11-May-05		--	8.91	3,487.06	--
	19-Jul-05		8.54	8.55	3,487.42	0.01
	16-Aug-05		--	8.50	3,487.47	--
	05-Oct-05		Sheen	8.65	3,487.32	--
	15-Nov-05		Sheen	8.46	3,487.51	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-4	11-Feb-03					
	27-Feb-03					
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04					
	25-May-04	3,509.01	--	20.16	3,488.85	--
	03-Jun-04		--	19.13	3,489.88	--
	15-Jun-04		--	19.13	3,489.88	--
	08-Jul-04		--	19.06	3,489.95	--
	26-Jul-04		--	19.21	3,489.80	--
	10-Sep-04		--	19.46	3,489.55	--
	21-Sep-04		--	19.35	3,489.66	--
	04-Oct-04		--	19.35	3,489.66	--
	15-Oct-04		--	18.81	3,490.20	--
	09-Nov-04		--	18.89	3,490.12	--
	16-Nov-04		--	18.83	3,490.18	--
	07-Dec-04		--	18.70	3,490.31	--
	17-Dec-04		--	18.71	3,490.30	--
	07-Jan-05		--	18.48	3,490.53	--
	21-Feb-05		--	18.27	3,490.74	--
	29-Mar-05		--	18.02	3,490.99	--
	22-Apr-05		--	18.07	3,490.94	--
	06-May-05		--	17.94	3,491.07	--
	11-May-05		--	17.96	3,491.05	--
	19-Jul-05		--	18.13	3,490.88	--
	16-Aug-05		--	18.21	3,490.80	--
	05-Oct-05		--	18.14	3,490.87	--
	15-Nov-05		--	17.91	3,491.10	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-5	11-Feb-03					
	27-Feb-03					
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04					
	25-May-04	3,508.74	--	20.08	3,488.66	--
	03-Jun-04		--	20.00	3,488.74	--
	15-Jun-04		--	20.03	3,488.71	--
	08-Jul-04		--	19.93	3,488.81	--
	26-Jul-04		--	20.06	3,488.68	--
	10-Sep-04		--	20.26	3,488.48	--
	21-Sep-04		--	20.34	3,488.40	--
	04-Oct-04		--	19.55	3,489.19	--
	15-Oct-04		--	19.52	3,489.22	--
	09-Nov-04		--	19.67	3,489.07	--
	16-Nov-04		--	19.41	3,489.33	--
	07-Dec-04		--	19.45	3,489.29	--
	17-Dec-04		--	19.44	3,489.30	--
	07-Jan-05		--	19.30	3,489.44	--
	21-Feb-05		--	19.11	3,489.63	--
	29-Mar-05		--	18.86	3,489.88	--
	22-Apr-05		--	18.91	3,489.83	--
	06-May-05		--	18.89	3,489.85	--
	11-May-05		--	18.80	3,489.94	--
	19-Jul-05		--	19.92	3,488.82	--
	16-Aug-05		--	18.81	3,489.93	--
	05-Oct-05		--	18.90	3,489.84	--
	15-Nov-05		--	18.75	3,489.99	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-6	11-Feb-03					
	27-Feb-03					
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04					
	25-May-04	3,509.76	--	21.76	3,488.00	--
	03-Jun-04		--	21.63	3,488.13	--
	15-Jun-04		--	21.65	3,488.11	--
	08-Jul-04		--	21.55	3,488.21	--
	26-Jul-04		--	21.67	3,488.09	--
	10-Sep-04		--	22.06	3,487.70	--
	21-Sep-04		--	22.25	3,487.51	--
	04-Oct-04		--	21.39	3,488.37	--
	15-Oct-04		--	21.25	3,488.51	--
	09-Nov-04		--	21.46	3,488.30	--
	16-Nov-04		--	21.27	3,488.49	--
	07-Dec-04		--	21.23	3,488.53	--
	17-Dec-04		--	21.29	3,488.47	--
	07-Jan-05		--	21.07	3,488.69	--
	21-Feb-05		--	20.91	3,488.85	--
	29-Mar-05		--	20.68	3,489.08	--
	22-Apr-05		--	20.74	3,489.02	--
	06-May-05		--	20.59	3,489.17	--
	11-May-05		--	20.60	3,489.16	--
	19-Jul-05		--	20.60	3,489.16	--
	16-Aug-05		--	20.62	3,489.14	--
	05-Oct-05		--	20.65	3,489.11	--
	15-Nov-05		--	20.50	3,489.26	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Junction 34 to Lea - Ref #2002-10286

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-7	11-Feb-03					
	27-Feb-03					
	19-Mar-03					
	03-Apr-03					
	11-Apr-03					
	21-Apr-03					
	30-Apr-03					
	05-May-03					
	18-Jun-03					
	09-Jul-03					
	21-Jul-03					
	12-Aug-03					
	18-Aug-03					
	03-Sep-03					
	19-Sep-03					
	02-Oct-03					
	03-Nov-03					
	13-Nov-03					
	25-Nov-03					
	02-Dec-03					
	10-Dec-03					
	02-Jan-04					
	30-Jan-04					
	06-Feb-04					
	05-May-04					
	25-May-04	3,507.38	--	19.37	3,488.01	--
	03-Jun-04		--	19.37	3,488.01	--
	15-Jun-04		--	19.40	3,487.98	--
	08-Jul-04		--	19.36	3,488.02	--
	26-Jul-04		--	19.49	3,487.89	--
	10-Sep-06		--	19.67	3,487.71	--
	21-Sep-04		--	19.75	3,487.63	--
	04-Oct-04		--	19.25	3,488.13	--
	15-Oct-04		--	19.07	3,488.31	--
	09-Nov-04		--	19.09	3,488.29	--
	16-Nov-04		--	19.10	3,488.28	--
	07-Dec-04		--	18.94	3,488.44	--
	17-Dec-04		--	18.89	3,488.49	--
	07-Jan-05		--	18.79	3,488.59	--
	21-Feb-05		--	18.57	3,488.81	--
	29-Mar-05		--	18.23	3,489.15	--
	22-Apr-05		--	18.33	3,489.05	--
	06-May-05		--	18.23	3,489.15	--
	11-May-05		--	18.24	3,489.14	--
	19-Jul-05		--	18.24	3,489.14	--
	16-Aug-05		--	18.35	3,489.03	--
	05-Oct-05		--	18.25	3,489.13	--
	15-Nov-05		--	18.14	3,489.24	--

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

-- = Not Detected

Gray shaded cells indicate well was gauged

If the cell is blank, the well was not gauged.

Yellow shaded cells indicate well was gauged and sampled

Summary of Groundwater Analytical Results

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	27-Feb-03	1,790	110	876	639	117	756					
	5-May-04	1,070	4.92	583	228	4.38	232			3.21	0.81	4.02
	26-Jul-04	1,260	2.36	898	590	9.54	600	1,740				
	4-Oct-04	1,090	2.43	785	506	3.1	509					
	17-Dec-04	2,960	7.77	1,520	891	<5.0	891					
	29-Mar-05	2,720	<5	1,880	322	9.36	331					
	11-May-05	2,030	<5	1,780	263	<5	263					
	16-Aug-05	3,290	<5	2,390	491	<5	491					
	15-Nov-05	1,240	<1	1,340	114	<1	114					
	15-Feb-06	1,390	<1	1,290	<2	<1	<3					
MW-2	27-Feb-03	2,390	474	807	655	221	876					
	5-May-04	3,430	10.4	746	317	6.18	323					
	26-Jul-04	6,020	3.42	1,740	910	15.7	926	2,100		7.04	3.63	10.67
	4-Oct-04	2,340	<5	1,380	261	<5	261					
	17-Dec-04	1,880	<2.0	574	159	2.09	161					
	29-Mar-05	2,660	27.3	1,080	621	35	656					
	11-May-05	1,060	2.53	813	76.8	<2	77					
	16-Aug-05	1,740	<2	870	230	2.83	233					
	15-Nov-05	66.8	<1	72.9	11.3	<1	11.3					
	15-Feb-06	33.7	<1	147	34.1	<1	34.1					
MW-3	27-Feb-03				Not Sampled Due to the Presence of PSH							
	5-May-04	1.65	<1.0	<1.0	<2.0	<1.0	<3.0			<0.5	11.6	11.6
	26-Jul-04				Not Sampled							
	4-Oct-04	1,400	421	730	723	242	965					
	17-Dec-04	2,510	490	972	550	87.6	638					
	29-Mar-05	6,980	729	1,370	710	120	830					
	11-May-05				Not Sampled Due to the Presence of PSH							
	16-Aug-05	1,260	101	470	253	34.5	288					
	15-Nov-05	1,880	32.7	842	222	10.2	232					
	15-Feb-06	1,600	26.5	715	242	<1	242					
MW-4	25-May-04	1.67	1.01	407	345	113	458					
	26-Jul-04	2.13	<1.0	447	91.7	1.85	93.6	2,230		3.03	0.583	3.61
	4-Oct-04	<1	<1	93.4	5.03	<1	5.03					
	17-Dec-04	3.93	<1.0	109	<2.0	<1.0	<3.0					
	29-Mar-05	2.64	<1	59.2	2.67	<1	2.7					

TABLE 2

Summary of Groundwater Analytical Results

Junction 34 to Lea - Ref #2002-10286

Monitor 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 Gasoline (mg/L)	TPH as Diesel (mg/L)	Total TPH (mg/L)
MW-5	25-May-04	178	20.9	654	523	116	639			4.93	4.32	9.25
	26-Jul-04	93.4	2.04	484	113	129	114	2,480				
	4-Oct-04	69.2	<1	199	28.6	<1	28.6					
	17-Dec-04	140	<1.0	228	8.96	<1.0	8.96					
	29-Mar-05	38.1	<1	125	6.69	<1	6.69					
	11-May-05	25.0	<1	119	<2	<1	<3					
	16-Aug-05	60.0	<1	34.1	2.96	<1	2.96					
	15-Nov-05	10.6	<1	37.6	<2	<1	<3					
MW-6	15-Feb-06	12.1	<1	34.1	<2	<1	<3					
	25-May-04	641	5.33	161	188	12.7	201			2.61	1.5	4.11
	26-Jul-04	99.8	<1.0	75.4	2.28	<1.0	2.28	2,090				
	4-Oct-04	33.2	<1	61.8	3.36	<1	3.36					
	17-Dec-04	<1.0	<1.0	1.22	<2.0	<1.0	<3.0					
	29-Mar-05	<1	<1	<1	<2	<1	<3					
MW-7	11-May-05	<1	<1	<1	<2	<1	<3					
	16-Aug-05	5.40	<1	<1	<2	<1	<3					
	15-Nov-05	1.13	<1	2.16	<2	<1	<3					
	15-Feb-06	<1	<1	2.12	<2	<1	<3					
	25-May-04	1,840	26.7	813	457	41.0	498			5.74	1.52	7.26
	26-Jul-04	2,110	608	1,180	1,490	585	2,075	2,320				
NMOCD Remedial Thresholds	4-Oct-04	1,940	<2	830	622	9.43	631					
	17-Dec-04	3,260	<5.0	604	475	9.09	484					
	29-Mar-05	3,270	<5	889	709	<5	709					
	11-May-05	1,470	<2	759	497	<2	497					
	16-Aug-05	2,710	<5	1,950	861	11.0	872					
	15-Nov-05	995	<1	540	312	<1	312					
	15-Feb-06	1010	<1	552	371	<1	371					
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 4

Summary of Groundwater Sampling Recommendations for 2006

Junction 34 to Lea - Ref. #2002-10286

Monitoring Well	Eight Quarters Below NMOCD Standards	Sampling Schedule				Notes
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
MW-1	No	X	X	X	X	Recommend Annual PAH analysis
MW-2	No	X	X	X	X	Recommend Annual PAH analysis
MW-3	No	X	X	X	X	Recommend Annual PAH analysis
MW-4	Yes		X			Recommend Annual PAH and BTEX analyses
MW-5	No	X	X	X	X	Recommend Annual PAH analysis
MW-6	No	X	X	X	X	Recommend Annual PAH analysis
MW-7	No	X	X	X	X	Recommend Annual PAH analysis

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



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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#: 165327 **Report Date:** 04/25/05
Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-3
Sample Matrix: water
Date Received: 03/31/2005 **Time:** 13:15
Date Sampled: 03/29/2005 **Time:** 15:00

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
A/BN Extraction-PAH	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/04/05	8260b(5030/5035)	---	---	---	---	---
Benzene	6980	µg/L	100	<100	04/04/05	8260b	---	3.8	97.8	97	94.8
Ethylbenzene	1370	µg/L	100	<100	04/04/05	8260b	---	9.1	87.3	92.6	91
m,p-Xylenes	710	µg/L	200	<200	04/04/05	8260b	S1	10.3	83.9	87.9	88.8
o-Xylene	120	µg/L	100	<100	04/04/05	8260b	---	7.6	92.2	93	96.5
Toluene	729	µg/L	100	<100	04/04/05	8260b	---	6.1	87.7	90.2	89.4
Acenaphthene	0.23	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	30	24.8	91.1	33.3
Acenaphthylene	0.115	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J	4.1	22.3	102	42.2
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10	6.6	96.9	54.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J,S,M	8.1	20.5	102.5	57.9
Fluorene	1.45	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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,

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.



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Client: Environmental Plus, Inc.
Attn: Iain Olness

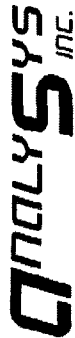
Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-3

Report#/Lab ID#: 165327
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	43.1	µg/L	0.5	<0.5	04/12/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	1.11	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	2.4	17.8	97.7	52.5



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Client: Environmental Plus, Inc.	Project ID: 2002-10286	Report#/Lab ID#: 165327
Attn: Iain Olness	Junc 34 to Lea	Sample Matrix: water
	Sample Name: MW-3	

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	37.8	30-110	---
	610 & 8270c	20.2	12-110	---
	610 & 8270c	59.4	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	101	74-124	---
	8260b	100	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165327 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286Uunc 34 to Lea
Sample Name: MW-3

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	S1	MS and/or MSD recoveries outside target recov. limits & either no LCS or LCS recovery outside target recov. limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	J	See J-flag discussion above.
Benzof[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.
Chrysene	J	See J-flag discussion above.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
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.
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.
Fluoranthene	J	See J-flag discussion above.
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.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.

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#: 165328 **Report Date:** 04/25/05
Project ID: 2002-10286 June 34 to Lea
Sample Name: MW-4
Sample Matrix: water
Date Received: 03/31/2005 **Time:** 13:15
Date Sampled: 03/29/2005 **Time:** 13:20

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	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/04/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2.64	µg/L	1	<1	04/04/05	8260b	---	3.8	97.8	97	94.8
Ethylbenzene	59.2	µg/L	1	<1	04/04/05	8260b	---	9.1	87.3	92.6	91
m,p-Xylenes	2.67	µg/L	2	<2	04/04/05	8260b	S1	10.3	83.9	87.9	88.8
o-Xylene	<1	µg/L	1	<1	04/04/05	8260b	---	7.6	92.2	93	96.5
Toluene	<1	µg/L	1	<1	04/04/05	8260b	---	6.1	87.7	90.2	89.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J,P	30	24.8	91.1	33.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	4.1	22.3	102	42.2
Benzof[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzof[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10	6.6	96.9	54.6
Benzof[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzof[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzof[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	8.1	20.5	102.5	57.9
Fluorene	0.169	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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,



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.



Project ID: 2002-10286\Junc 34 to Lea
Sample Name: MW-4

Report#/Lab ID#: 165328
Sample Matrix: water

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Naphthalene	3.79	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	0.122	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	2.4	17.8	97.7	52.5

Report #: 0
Report Date: 04/25/05



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286 Vunc 34 to Lea
Sample Name: MW-4

Report#/Lab ID#: 165328
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	41.3	30-110	---
Nitrobenzene-d5	610 & 8270c	29.4	12-110	---
Terphenyl-d14	610 & 8270c	73	25-110	---
1,2-Dichloroethane-d4	8260b	99.9	74-124	---
Toluene-d8	8260b	102	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165328 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10286/Junc 34 to Lea
Sample Name: MW-4

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	S1	MS and/or MSD recoveries outside target recov. limits & either no LCS or LCS recovery outside target recov. limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthene	J	See J-flag discussion above.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzol[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.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
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.
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.
Indenol[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.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

Notes:

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Euinec,

NM 88231

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

Report# / Lab ID#: 165329 **Report Date:** 04/25/05

Project ID: 2002-10286 Junc 34 to Lea

Sample Name: MW-5

Sample Matrix: water

Date Received: 03/31/2005 **Time:** 13:15

Date Sampled: 03/29/2005 **Time:** 13:45

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	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/04/05	8260b(5030/5035)	---	---	---	---	---
Benzene	38.1	µg/L	1	<1	04/04/05	8260b	---	3.8	97.8	97	94.8
Ethylbenzene	125	µg/L	1	<1	04/04/05	8260b	---	9.1	87.3	92.6	91
m,p-Xylenes	6.69	µg/L	2	<2	04/04/05	8260b	S1	10.3	83.9	87.9	88.8
o-Xylene	<1	µg/L	1	<1	04/04/05	8260b	J	7.6	92.2	93	96.5
Toluene	<1	µg/L	1	<1	04/04/05	8260b	---	6.1	87.7	90.2	89.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J,P	30	24.8	91.1	33.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	4.1	22.3	102	42.2
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10	6.6	96.9	54.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	8.1	20.5	102.5	57.9
Fluorene	0.219	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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,



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.

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-5

Report#/Lab ID#: 165329
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	4.72	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	0.185	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	2.4	17.8	97.7	52.5

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-5

Report#/Lab ID#: 165329
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	39	30-110	---
Nitrobenzene-d5	610 & 8270c	31.3	12-110	---
Terphenyl-d14	610 & 8270c	74.5	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#: 165329 **Matrix:** water
Client: Environmental Plus, Inc.
Project ID: 2002-10286Unc 34 to Lea
Sample Name: MW-5

Attn: Iain Olness

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	S1	MS and/or MSD recoveries outside target recov. limits & either no LCS or LCS recovery outside target recov. limits.
o-Xylene	J	See J-flag discussion above.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthene	J	See J-flag discussion above.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzofluoranthene	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	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
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.
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.
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.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

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
Euinee, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 165330 **Report Date:** 04/25/05
Project ID: 2002-10286/Unc 34 to Lea
Sample Name: MW-7
Sample Matrix: water
Date Received: 03/31/2005 **Time:** 13:15
Date Sampled: 03/29/2005 **Time:** 15:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

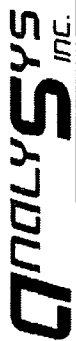
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/06/05	8260b(5030/5035)	---	---	---	---	---
Benzene	3270	µg/L	100	<100	04/04/05	8260b	---	3.8	97.8	97	94.8
Ethylbenzene	889	µg/L	100	<100	04/04/05	8260b	---	9.1	87.3	92.6	91
m,p-Xylenes	709	µg/L	200	<200	04/04/05	8260b	S1	10.3	83.9	87.9	88.8
o-Xylene	<5	µg/L	5	<5	04/06/05	8260b	J	7.6	92.2	93	96.5
Toluene	<5	µg/L	5	<5	04/06/05	8260b	J	6.1	87.7	90.2	89.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J,P	30	24.8	91.1	33.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	4.1	22.3	102	42.2
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10	6.6	96.9	54.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	8.1	20.5	102.5	57.9
Fluorene	0.238	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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,

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.



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: 2002-10286/Junc 34 to Lea
Sample Name: MW-7

Report#/Lab ID#: 165330
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	31.9	µg/L	0.5	<0.5	04/13/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	0.105	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	2.4	17.8	97.7	52.5



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-7

Report# / Lab ID#: 165330
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	41.3	30-110	---
	610 & 8270c	24.1	12-110	---
	610 & 8270c	58.6	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	97.7	74-124	---
	8260b	94.2	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165330 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10286 **Unc** 34 to Lea
Sample Name: MW-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).

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	S1	MS and/or MSD recoveries outside target recov. limits & either no LCS or LCS recovery outside target recov. limits.
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
Acenaphthenc	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthene	J	See J-flag discussion above.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzol(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.
Dibenz(a,h)anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz(a,h)anthracene	P	
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.
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.
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.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

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
Bunice, NM 88231

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

Report#/Lab ID#: 165353 Report Date: 04/25/05

Project ID: 2002-10286 June 34 to Lea

Sample Name: MW-1

Sample Matrix: water

Date Received: 03/31/2005 Time: 13:30

Date Sampled: 03/29/2005 Time: 14:10

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
A/BN Extraction-PAH	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/06/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2720	µg/L	100	<100	04/05/05	8260b	---	2.4	97.1	88.6	90.1
Ethylbenzene	1880	µg/L	100	<100	04/05/05	8260b	---	8.3	102	97	83.2
m,p-Xylenes	322	µg/L	10	<10	04/06/05	8260b	---	1	99.6	97.3	81.9
o-Xylene	9.36	µg/L	5	<5	04/06/05	8260b	---	1.4	106	107.6	89.3
Toluene	<5	µg/L	5	<5	04/06/05	8260b	J	2.1	100.4	103.3	95.8
Acenaphthene	0.136	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	30	24.8	91.1	33.3
Acenaphthylene	0.072	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	4.1	22.3	102	42.2
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10	6.6	96.9	54.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	8.1	20.5	102.5	57.9
Fluorene	1.04	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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,

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.



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: 2002-10286Junc 34 to Lea
Sample Name: MW-1

Report#/Lab ID#: 165353
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	48.8	µg/L	5	<5	04/13/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	0.535	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	2.4	17.8	97.7	52.5



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286Junc 34 to Lea
Sample Name: MW-1

Report#/Lab ID#: 165353
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	42.5	30-110	---
	610 & 8270c	16	12-110	---
	610 & 8270c	74.7	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	110	74-124	---
	8260b	102	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165353 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10286/Junc 34 to Lea
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
Toluene	J	See J-flag discussion above.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	S,M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Fluoranthene	S,M	MS and/or MSD recovers 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 recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

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#: 165355 **Report Date:** 04/25/05

Project ID: 2002-10286\unc 34 to Lea

Sample Name: MW-6

Sample Matrix: water

Date Received: 03/31/2005 **Time:** 13:30

Date Sampled: 03/29/2005 **Time:** 15:30

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
A/BN Extraction-PAH	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/25/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/05/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	04/05/05	8260b	---	2.4	97.1	88.6	90.1
Ethylbenzene	<1	µg/L	1	<1	04/05/05	8260b	---	8.3	102	97	83.2
m,p-Xylenes	<2	µg/L	2	<2	04/05/05	8260b	---	1	99.6	97.3	81.9
o-Xylene	<1	µg/L	1	<1	04/05/05	8260b	---	1.4	106	107.6	89.3
Toluene	<1	µg/L	1	<1	04/05/05	8260b	---	2.1	100.4	103.3	95.8
1-Methylnaphthalene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	50.5	56.3	107.4	62.1
2-Methylnaphthalene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	65.8	51.4	105.3	56.1
Acenaphthene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	---	4	57.3	103.2	60
Acenaphthylene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	40.9	58.1	102.2	59.9
Anthracene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	56.2	52.4	100.6	58
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	124.5	30.5	97.7	61.1
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	97.9	10.3	102.3	60.5
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	102.9	11.8	103.9	63.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	38.7	4.5	99.7	62.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	97.2	10.8	99.1	62.9
Chrysene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	119	39.2	99.4	81.6
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	34.4	5	102.7	76.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	76.2	52.4	99.6	62.6

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,

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.

Client: Environmental Plus, Inc.
Attn: Iain Olness

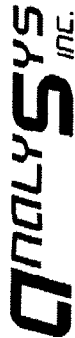
Project ID: 2002-10286\unc 34 to Lea
Sample Name: MW-6

Report#/Lab ID#: 165355
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
Fluorene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	---	13	67.2	102	58.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	S,M,P	39.7	4.3	102.6	63.1
Naphthalene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	55.7	53.8	107.7	62.8
Phenanthrene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	J,P	69.5	55.8	99.6	60
Pyrene	<0.05	µg/L	0.05	<0.05	04/25/05	610 & 8270c	P	69.3	53.6	99.1	62



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286/Junc 34 to Lea
Sample Name: MW-6

Report#/Lab ID#: 165355
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	59.3	30-110	---
	610 & 8270c	73.7	12-110	---
	610 & 8270c	51.4	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	105	74-124	---
	8260b	112	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165355 **Matrix:** water
Client: Environmental Plus, Inc.
Project ID: 2002-10286Uunc 34 to Lea
Sample Name: MW-6
Attn: Iain Olness

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
1-Methylnaphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
1-Methylnaphthalene	P	
2-Methylnaphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
2-Methylnaphthalene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	P	
Benzo[a]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]anthracene	P	
Benzo[a]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	P	
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	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[b]fluoranthene	P	
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	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
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[k]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[k]fluoranthene	P	
Benzo[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.
Chrysene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Chrysene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
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.

Exceptions Report:

Report #/Lab ID#: 165355 Matrix: water
 Client: Environmental Plus, Inc. Attn: Iain Olness
 Project ID: 2002-10286/Junc 34 to Lea
 Sample Name: MW-6

Fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluoranthene	P	
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.
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
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.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Phenanthrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Phenanthrene	P	
Phenanthrene	J	See J-flag discussion above.
Pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	P	

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#: 165354 Report Date: 04/25/05

Project ID: 2002-10286Nunc 34 to Lea

Sample Name: MW-2

Sample Matrix: water

Date Received: 03/31/2005 Time: 13:30

Date Sampled: 03/29/2005 Time: 14:35

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	---	---	---	---	04/05/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	04/09/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	04/06/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2660	µg/L	100	<100	04/05/05	8260b	---	2.4	97.1	88.6	90.1
Ethylbenzene	1080	µg/L	100	<100	04/05/05	8260b	---	8.3	102	97	83.2
m,p-Xylenes	621	µg/L	200	<200	04/05/05	8260b	---	1	99.6	97.3	81.9
o-Xylene	35	µg/L	5	<5	04/06/05	8260b	---	1.4	106	107.6	89.3
Toluene	27.3	µg/L	5	<5	04/06/05	8260b	---	2.1	100.4	103.3	95.8
Acenaphthene	0.321	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	30	24.8	91.1	33.3
Acenaphthylene	0.133	µg/L	0.05	<0.05	04/09/05	610 & 8270c	P	37.9	26	96.7	35.1
Anthracene	0.092	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	4.1	22.3	102	42.2
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.3	9.7	97.8	55.7
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J	10	6.6	96.9	54.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	14.9	7.2	102.9	61
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	14.4	6.9	105.1	60.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	19.5	8	101.8	56
Chrysene	0.142	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	10.9	13.1	99.1	75.2
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M,P	17.9	7.6	105.9	71.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J,S,M	8.1	20.5	102.5	57.9
Fluorene	1.51	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	20.2	26.9	92	35
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	S,M	11	6.2	100.3	58.3

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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.



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: 2002-10286Junc 34 to Lea
Sample Name: MW-2

Report#/Lab ID#: 165354
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	42.9	µg/L	0.5	<0.5	04/13/05	610 & 8270c	P	56.8	22.7	92.9	38.6
Phenanthrene	1.54	µg/L	0.05	<0.05	04/09/05	610 & 8270c	---	6.5	27.5	98.7	39.9
Pyrene	<0.05	µg/L	0.05	<0.05	04/09/05	610 & 8270c	J	2.4	17.8	97.7	52.5



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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: 2002-10286Unc 34 to Lea
Sample Name: MW-2

Report# / Lab ID#: 165354
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	48.2	30-110	---
Nitrobenzene-d5	610 & 8270c	18.1	12-110	---
Terphenyl-d14	610 & 8270c	55.7	25-110	---
1,2-Dichloroethane-d4	8260b	119	74-124	---
Toluene-d8	8260b	103	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165354 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286Uunc 34 to Lea
Sample Name: MW-2

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).

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- ☒ 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
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	J	See J-flag discussion above.
Benzo[g,h,i]perylene	S,M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	S,M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Fluoranthene	S,M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Fluoranthene	J	See J-flag discussion above.
Indeno[1,2,3-cd]pyrene	S,M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	J	See J-flag discussion above.

Notes:

12101

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 EPI Project Manager Mailing Address City, State, Zip EPI Phone#/Fax# Client Company Facility Name Project Reference EPI Sampler Name		Environmental Plus, Inc. Iain Olness P.O. BOX 1558 Eunice New Mexico 88231 505-394-3481 / 505-394-2601 Plains All American Junction 34 to Lea 2002-10286 John Robinson		Bill To  PLAINS ALL AMERICAN PIPELINE, L.P. Attn: ENV Accounts Receivable PO Box 4648, Houston, TX 77210-4648		ANALYSIS REQUEST																
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	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
165327	1 MW-3	G	6	X						X	X		29-Mar	15:00	X							X
165328	2 MW-4	G	6	X						X	X		29-Mar	13:20	X							X
165329	3 MW-5	G	6	X						X	X		29-Mar	13:45	X							X
165330	4 MW-7	G	6	X						X	X		29-Mar	15:45	X							X
5																						
6																						
7																						
8																						
9																						
10																						

Samples Relinquished by: <i>Iain Olness</i>	Received By: Date: 3/30/05 Time: 1630	Received By: (lab staff) Date: 3/31/05 Time: 1315 <i>Danny Grew, AS1</i>	Sample Cool & Intact Yes No	Checked By:
Delivered by:				

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

REMARKS:

T: 5.0°C

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.			
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Receivable			
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 Junction 34 to Lea					
Project Reference 2002-10286					
EPI Sampler Name John Robinson					

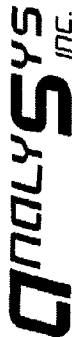
LAB I.D.	SAMPLE I.D.	(G) RAB OR (C) OMP.	MATRIX				PRESERV.			SAMPLING			TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCCLP	OTHER >>	PAH
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE							
165353	1 MW-1	G 6	X					X	X			29-Mar	14:10	X				X	
165354	2 MW-2	G 6	X					X	X			29-Mar	14:35	X				X	
165355	3 MW-6	G 6	X					X	X			29-Mar	15:30	X				X	
	4																		
	5																		
	6																		
	7																		
	8																		
	9																		
	10																		

Sampler Relinquished by: <i>Tain Soren</i>	Date 3/30/05	Received By: <i>John</i>	3/31/05
	Time 14:30	Received By: (lab staff)	13:30
	Sample Cool & Intact Yes ☐ No ☐		
Delivered by:	Checked By:		

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

T: 5.0°C

12407
12101



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

Euinec,

NM 88231

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

Report#/Lab ID#: 167148 **Report Date:** 05/20/05

Project ID: 2002-10286

Sample Name: MW-1

Sample Matrix: water

Date Received: 05/13/2005 **Time:** 10:30

Date Sampled: 05/11/2005 **Time:** 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

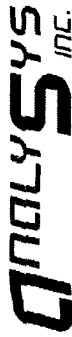
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2030	µg/L	10	<10	05/19/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	1780	µg/L	10	<10	05/19/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	263	µg/L	10	<10	05/20/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<5	µg/L	5	<5	05/20/05	8260b	---	2.2	110.5	110	103.6
Toluene	<5	µg/L	5	<5	05/20/05	8260b	J	0.8	94.4	90.6	90.8

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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: 2002-10286
Sample Name: MW-1

Report#/Lab ID#: 167148
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	114	74-124	---
Toluene-d8	8260b	104	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167148	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
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).

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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
Toluene	J	See J-flag discussion above.

Notes:



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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
Euinee, NM 88231

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

Report# / Lab ID#: 167149 **Report Date:** 05/20/05

Project ID: 2002-10286

Sample Name: MW-2

Sample Matrix: water

Date Received: 05/13/2005 **Time:** 10:30

Date Sampled: 05/11/2005 **Time:** 15:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

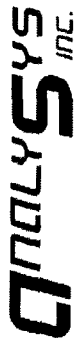
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1060	µg/L	10	<10	05/19/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	813	µg/L	10	<10	05/19/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	76.8	µg/L	4	<4	05/20/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<2	µg/L	2	<2	05/20/05	8260b	J	2.2	110.5	110	103.6
Toluene	2.53	µg/L	2	<2	05/20/05	8260b	---	0.8	94.4	90.6	90.8

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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: Ian Olness

Project ID: 2002-10286
Sample Name: MW-2

Report#/Lab ID#: 167149
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	74-124	---
Toluene-d8	8260b	104	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167149	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
Sample Name: MW-2		

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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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.4704
0.0
95
-savelevel-



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#: 167150 Report Date: 05/20/05

Project ID: 2002-10286

Sample Name: MW-4

Sample Matrix: water

Date Received: 05/13/2005 Time: 10:30

Date Sampled: 05/11/2005 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
Volatiles organics-8260b/BTEX	---		---		05/19/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/19/05	8260b	J	0.9	84.3	85.1	81.4
Ethylbenzene	46.1	µg/L	1	<1	05/19/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	<2	µg/L	2	<2	05/19/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/19/05	8260b	---	2.2	110.5	110	103.6
Toluene	<1	µg/L	1	<1	05/19/05	8260b	---	0.8	94.4	90.6	90.8

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Dale Wagner

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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: 2002-10286
Sample Name: MW-4

Report#/Lab ID#: 167150
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.9	74-124	---
Toluene-d8	8260b	100	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167150	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
Sample Name: MW-4		

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).

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- ☐ 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 (ROL) 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.

Notes:

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

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

Report#/Lab ID#: 167151 **Report Date:** 05/20/05
Project ID: 2002-10286

Sample Name: MW-5

Sample Matrix: water

Date Received: 05/13/2005 **Time:** 10:30
Date Sampled: 05/11/2005 **Time:** 13:30

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
Volatiles organics-8260b/BTEX	---		---		05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	25	µg/L	1	<1	05/20/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	119	µg/L	1	<1	05/20/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	<2	µg/L	2	<2	05/20/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/20/05	8260b	---	2.2	110.5	110	103.6
Toluene	<1	µg/L	1	<1	05/20/05	8260b	---	0.8	94.4	90.6	90.8

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Respectfully Submitted,

Dale Wagner

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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: 2002-10286
Sample Name: MW-5

Report#/Lab ID#: 167151
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.7	74-124	---
Toluene-d8	8260b	103	89-115	---

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



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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#: 167152 Report Date: 05/20/05

Project ID: 2002-10286

Sample Name: MW-6

Sample Matrix: water

Date Received: 05/13/2005 Time: 10:30

Date Sampled: 05/11/2005 Time: 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

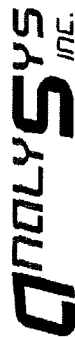
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/19/05	8260b(5030/5035)		---	---	---	---
Benzene	<1	µg/L	1	<1	05/19/05	8260b	J	0.9	84.3	85.1	81.4
Ethylbenzene	<1	µg/L	1	<1	05/19/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	<2	µg/L	2	<2	05/19/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/19/05	8260b	---	2.2	110.5	110	103.6
Toluene	<1	µg/L	1	<1	05/19/05	8260b	---	0.8	94.4	90.6	90.8

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Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286
Sample Name: MW-6

Report#/Lab ID#: 167152
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.4	74-124	---
Toluene-d8	8260b	104	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167152	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
Sample Name: MW-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:

- ☒ 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.

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.4704

0.0

95

-savelevel-



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#: 167160 **Report Date:** 05/20/05

Project ID: 2002-10286

Sample Name: MW-7

Sample Matrix: water

Date Received: 05/13/2005 **Time:** 10:30

Date Sampled: 05/11/2005 **Time:** 16:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

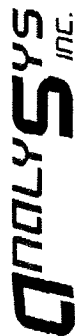
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1470	µg/L	100	<100	05/19/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	759	µg/L	100	<100	05/19/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	497	µg/L	200	<200	05/19/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<2	µg/L	2	<2	05/20/05	8260b	J	2.2	110.5	110	103.6
Toluene	<2	µg/L	2	<2	05/20/05	8260b	---	0.8	94.4	90.6	90.8

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Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286
Sample Name: MW-7

Report#/Lab ID#: 167160
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.9	74-124	---
Toluene-d8	8260b	102	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167160	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
Sample Name: MW-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:

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- ☐ 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
o-Xylene	J	See J-flag discussion above.

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.4704

0.0

95

-savelevel-

12473

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 ALL-AMERICAN PIPELINE, L.P.																						
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Receivable PO Box 4648, Houston, TX 77210-4648																						
City, State, Zip Eunice New Mexico 88231																								
EPI Phone#/Fax# 505-394-3481 / 505-394-2601																								
Client Company Plains All American																								
Facility Name Junction 34 to Lea																								
Project Reference 2002-10286																								
EPI Sampler Name John Robinson																								
LAB I.D.	SAMPLE I.D.																							
167148 1 MW-1 ✓		(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH
167149 2 MW-2 ✓		G 4	4	X						X	X				11-May	14:30	X							
167150 3 MW-3 ✓		G 4	4	X						X	X				11-May	15:30	X							
167151 4 MW-4 ✓		G 4	4	X						X	X				11-May	15:45	X							
167152 5 MW-5 ✓		G 4	4	X						X	X				11-May	14:00	X							
167160 6 MW-6 ✓		G 4	4	X						X	X				11-May	13:30	X							
167160 7 MW-7 ✓		G 4	4	X						X	X				11-May	15:00	X							
8															11-May	16:20	X							
9																								
10																								

Sample Belonged to:

Received by: *Jain Deves*

Date: 5/12/05

Time: 7:00

Received By:

5/13/05

Plains All American

REMARKS:

No MW-3 sample

Jain Deves

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

Delivered by:

Sample Cool & Intact

Yes

No

Checked By:

T: 5.0°C

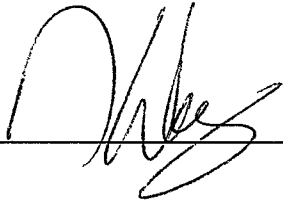
Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 2002-10286

Attn: Iain Olness

for Sample #'s: 170006 thru 170012

Analyzed by AnalySys, Inc.

Final Review Date: 8/26/2005 By:  (D. Wagner)

Case Narrative:

The recoveries of Benzene and Toluene in the Matrix Spikes (MS and/or MSD) for the analytical batch that contained samples 170006 thru 170009 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.

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#: 170006

Report Date: 08/26/05

Project ID: 2002-10286

Sample Name: MW-1

Sample Matrix: water

Date Received: 08/18/2005

Time: 16:00

Date Sampled: 08/16/2005

Time: 12:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/25/05	8260b(5030/5035)	---	---	---	---	---
Benzene	3290	µg/L	50	<50	08/24/05	8260b	S,M	7.5	130.9	95.8	99.2
Ethylbenzene	2390	µg/L	50	<50	08/24/05	8260b	---	1.2	113.8	112.3	116.1
m-Xylenes	491	µg/L	10	<10	08/25/05	8260b	---	2	113.5	112.7	114.3
o-Xylene	<5	µg/L	5	<5	08/25/05	8260b	J	1.3	113.5	109.9	112.8
Toluene	<5	µg/L	5	<5	08/25/05	8260b	J,S,M	1.6	145	99.6	101.7

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,



Dale Wagner

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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: 2002-10286
Sample Name: MW-1

Report#/Lab ID#: 170006
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	70-130	---
Toluene-d8	8260b	104	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170006 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286
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:

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- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J Flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S, M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	J	See J-flag discussion above.
Toluene	S, M	MS and/or MSD recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
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#: 170007 **Report Date:** 08/26/05
Project ID: 2002-10286
Sample Name: MW-2
Sample Matrix: water
Date Received: 08/18/2005 **Time:** 16:00
Date Sampled: 08/16/2005 **Time:** 13:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/24/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1740	µg/L	50	<50	08/24/05	8260b	S,M	7.5	130.9	95.8	99.2
Ethylbenzene	870	µg/L	50	<50	08/24/05	8260b	---	1.2	113.8	112.3	116.1
m-xylenes	230	µg/L	4	<4	08/25/05	8260b	---	2	113.5	112.7	114.3
o-xylene	2.83	µg/L	2	<2	08/25/05	8260b	---	1.3	113.5	109.9	112.8
Toluene	<2	µg/L	2	<2	08/25/05	8260b	J,S,M	1.6	145	99.6	101.7

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: 2002-10286
 Sample Name: MW-2

Report#/Lab ID#: 170007
 Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.9	70-130	---
Toluene-d8	8260b	104	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170007	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10286		
Sample Name: MW-2		

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 (ROL) is greater than the Detection Limit. Below 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	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.
Toluene	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.
Toluene	J	See J-Flag discussion above.

Notes:

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Bunice,

NM 88231

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

Report#/Lab ID#: 170008

Report Date: 08/26/05

Project ID: 2002-10286

Sample Name: MW-3

Sample Matrix: water

Date Received: 08/18/2005

Time: 16:00

Date Sampled: 08/16/2005

Time: 14:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/25/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1260	µg/L	100	<100	08/24/05	8260b	S,M	7.5	130.9	95.8	99.2
Ethylbenzene	470	µg/L	100	<100	08/24/05	8260b	---	1.2	113.8	112.3	116.1
m-Xylenes	253	µg/L	200	<200	08/24/05	8260b	---	2	113.5	112.7	114.3
o-Xylene	34.5	µg/L	2	<2	08/25/05	8260b	---	1.3	113.5	109.9	112.8
Toluene	101	µg/L	2	<2	08/25/05	8260b	S,M	1.6	145	99.6	101.7

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,



Dale Wagner

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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: 2002-10286
Sample Name: MW-3

Report#/Lab ID#: 170008
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	70-130	---
Toluene-d8	8260b	106	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170008	Matrix: water
Client: Environmental Plus, Inc.	Attn: Iain Olness
Project ID: 2002-10286	
Sample Name: MW-3	

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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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 level 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	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.
Toluene	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:

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#: 170009 **Report Date:** 08/26/05
Project ID: 2002-10286
Sample Name: MW-4
Sample Matrix: water
Date Received: 08/18/2005 **Time:** 16:00
Date Sampled: 08/16/2005 **Time:** 13:30

REPORT OF ANALYSIS

Parameter	Result	Units	ROL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/24/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	μg/L	1	<1	08/24/05	8260b	J,S,M	7.5	130.9	95.8	99.2
Ethylbenzene	32.5	μg/L	1	<1	08/24/05	8260b	---	1.2	113.8	112.3	116.1
m-Xylenes	<2	μg/L	2	<2	08/24/05	8260b	J	2	113.5	112.7	114.3
o-Xylene	<1	μg/L	1	<1	08/24/05	8260b	J	1.3	113.5	109.9	112.8
Toluene	<1	μg/L	1	<1	08/24/05	8260b	S,M	1.6	145	99.6	101.7

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: 2002-10286
 Sample Name: MW-4

Report#/Lab ID#: 170009
 Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	113	70-130	---
Toluene-d8	8260b	108	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170009 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286
Sample Name: MW-4

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).

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- ☐ 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 level blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (ROL) 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	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.
Benzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.
o-Xylene	J	See J-flag discussion above.
Toluene	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:

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Bunice,

NM 88231

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

Report#/Lab ID#: 170010

Report Date: 08/26/05

Project ID: 2002-10286

Sample Name: MW-5

Sample Matrix: water

Date Received: 08/18/2005

Time: 16:00

Date Sampled: 08/16/2005

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
Volatiles organics-8260b/BTEX	---		---		08/25/05	8260b(5030/5035)	---	---	---	---	---
Benzene	60	µg/L	1	<1	08/25/05	8260b	---	2.8	88.4	88.2	87.9
Ethylbenzene	34.1	µg/L	1	<1	08/25/05	8260b	---	3.5	99.6	101.6	97.6
m-Xylenes	2.96	µg/L	2	<2	08/25/05	8260b	---	4.2	99.4	101.6	97.6
p-Xylene	<1	µg/L	1	<1	08/25/05	8260b	J	3.8	91.3	89.6	88.7
Toluene	<1	µg/L	1	<1	08/25/05	8260b	---	2.6	95.1	94.3	93.8

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,

Dale Wagner

Dale Wagner

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Client: Environmental Plus, Inc.
 Attn: Iain Olness

Project ID: 2002-10286
 Sample Name: MW-5

Report#/Lab ID#: 170010
 Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.3	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#: 170010	Matrix: water
Client: Environmental Plus, Inc.	Attn: Iain Olness
Project ID: 2002-10286	
Sample Name: MW-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.
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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 level 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
o-Xylene	J	See J-flag discussion above.

Notes:

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

Report#/Lab ID#: 170011 **Report Date:** 08/26/05
Project ID: 2002-10286
Sample Name: MW-6
Sample Matrix: water
Date Received: 08/18/2005 **Time:** 16:00
Date Sampled: 08/16/2005 **Time:** 15:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/24/05	8260b(5030/5035)	---	---	---	---	---
Benzene	5.4	µg/L	1	<1	08/24/05	8260b	---	2.8	88.4	88.2	87.9
Ethylbenzene	<1	µg/L	1	<1	08/24/05	8260b	J	3.5	99.6	101.6	97.6
m-xylenes	<2	µg/L	2	<2	08/24/05	8260b	J	4.2	99.4	101.6	97.6
o-xylene	<1	µg/L	1	<1	08/24/05	8260b	---	3.8	91.3	89.6	88.7
Toluene	<1	µg/L	1	<1	08/24/05	8260b	---	2.6	95.1	94.3	93.8

QUALITY ASSURANCE DATA 1

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Respectfully Submitted,



Dale Wagner

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	Project ID: 2002-10286	Report#/Lab ID#: 170011
Attn: Iain Olness	Sample Name: MW-6	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.3	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#: 170011 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286
Sample Name: MW-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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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 level, blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (ROL) is greater than the Detection Limit. Below 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
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Bunice,

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report# Lab ID#: 170012

Report Date: 08/26/05

Project ID: 2002-10286

Sample Name: MW-7

Sample Matrix: water

Date Received: 08/18/2005

Time: 16:00

Date Sampled: 08/16/2005

Time: 15:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	ICS ⁴
Volatile organics-8260b/BTEX	---		---		08/25/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2710	µg/L	100	<100	08/24/05	8260b	---	2.8	88.4	88.2	87.9
Ethylbenzene	1050	µg/L	100	<100	08/24/05	8260b	---	3.5	99.6	101.6	97.6
m-Xylenes	861	µg/L	200	<200	08/24/05	8260b	---	4.2	99.4	101.6	97.6
p-Xylene	11	µg/L	5	<5	08/25/05	8260b	---	3.8	91.3	89.6	88.7
Toluene	<5	µg/L	5	<5	08/25/05	8260b	J	2.6	95.1	94.3	93.8

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,



Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286
Sample Name: MW-7

Report#/Lab ID#: 170012
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.7	70-130	---
Toluene-d8	8260b	102	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170012	Matrix: water
Client: Environmental Plus, Inc.	Attn: Iain Olness
Project ID: 2002-10286	
Sample Name: MW-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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J flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

AnalSys 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

13212

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST	
EPI Project Manager		Iain Olness		 PLAINS ALL AMERICAN PIPELINE, L.P. Attn: ENV Accounts Receivable PO Box 4648, Houston, TX 77210-4648			
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		Junction 34 to Lea					
Project Reference		2002-10286					
EPI Sampler Name		George Blackburn					

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:										
170006	1 MW-1	G	4	X								X							
170007	2 MW-2	G	4	X								X							
170008	3 MW-3	G	4	X								X							
170009	4 MW-4	G	4	X								X							
170010	5 MW-5	G	4	X								X							
170011	6 MW-6	G	4	X								X							
170012	7 MW-7	G	4	X								X							
	8																		
	9																		
	10																		

Sampler Relinquished by:	Date: 8/17/05	Received By: Iain Olness	Time: 3:25
Relinquished by: George Blackburn	Date: 8/17/05	Received By: Iain Olness	Time: 3:25
Delivered by:	Sample Cool & Intact (Yes/No)	Checked By: GHL	

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

722.1°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

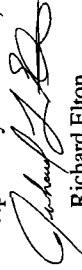
Report#/Lab ID#: 173922 **Report Date:** 11/29/05
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-1
Sample Matrix: water
Date Received: 11/22/2005 **Time:** 10:30
Date Sampled: 11/15/2005 **Time:** 11:30

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	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1240	µg/L	10	<10	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	1340	µg/L	10	<10	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	114	µg/L	20	<20	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	J	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	8260b	J	1.5	109	113.7	156.9

QUALITY ASSURANCE DATA 1

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Richard Elton

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-1

Report#/Lab ID#: 173922
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.8	70-130	---
Toluene-d8	8260b	108	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 173922	Matrix: water
Client: Environmental Plus, Inc.	
Attn: Iain Olness	
Project ID: 2002-10286 Junction 34 to Lea	
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
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:



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Address: 2100 Ave. O

Eunice,

NM 88231

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

Report#/Lab ID#: 173923 **Report Date:** 11/29/05

Project ID: 2002-10286 Junction 34 to Lea

Sample Name: MW-2

Sample Matrix: water

Date Received: 11/22/2005 **Time:** 10:30

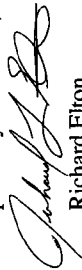
Date Sampled: 11/15/2005 **Time:** 12:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	66.8	µg/L	1	<1	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	72.9	µg/L	1	<1	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	11.3	µg/L	2	<2	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	J	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	8260b	---	1.5	109	113.7	156.9

QUALITY ASSURANCE DATA¹

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Richard Elton

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-2

Report#/Lab ID#: 173923
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.1	70-130	---
Toluene-d8	8260b	104	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 173923 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-2

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 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
o-Xylene	J	See J-flag discussion above.

Notes:



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Eunice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

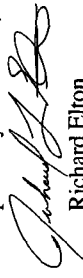
Report# / Lab ID#: 173924 **Report Date:** 11/29/05
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-3
Sample Matrix: water
Date Received: 11/22/2005 **Time:** 10:30
Date Sampled: 11/15/2005 **Time:** 13:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1880	µg/L	10	<10	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	842	µg/L	10	<10	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	222	µg/L	20	<20	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	10.2	µg/L	10	<10	11/23/05	8260b	---	2.6	106.9	114.1	107.9
Toluene	32.7	µg/L	10	<10	11/28/05	8260b	---	1.5	109	113.7	156.9

QUALITY ASSURANCE DATA 1

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Richard Elton

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-3

Report#/Lab ID#: 173924
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.9	70-130	---
Toluene-d8	8260b	102	80-127	---

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

Client: Environmental Plus, Inc.
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Eunice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

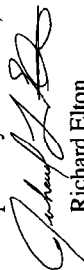
Report#/Lab ID#: 173925 **Report Date:** 11/29/05
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-4
Sample Matrix: water
Date Received: 11/22/2005 **Time:** 10:30
Date Sampled: 11/15/2005 **Time:** 14:00

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	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	4.81	µg/L	1	<1	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	<2	µg/L	2	<2	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	J	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	8260b	---	1.5	109	113.7	156.9

QUALITY ASSURANCE DATA 1

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Attn: Iain Olness

Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-4

Report#/Lab ID#: 173925
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.2	70-130	---
Toluene-d8	8260b	104	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 173925	Matrix: water
Client: Environmental Plus, Inc.	Attn: Iain Olness
Project ID: 2002-10286	Junction 34 to Lea
Sample Name: MW-4	

Sample Temperature/Condition: <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes:



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

Report#/Lab ID#: 173926 **Report Date:** 11/29/05

Project ID: 2002-10286 Junction 34 to Lea

Sample Name: MW-5

Sample Matrix: water

Date Received: 11/22/2005 **Time:** 10:30

Date Sampled: 11/15/2005 **Time:** 14:45

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
Volatiles organics-8260b/BTEX	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	10.6	µg/L	1	<1	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	37.6	µg/L	1	<1	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	<2	µg/L	2	<2	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	---	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	8260b	---	1.5	109	113.7	156.9

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Respectfully Submitted,

Richard Elton

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Attn: Iain Olness

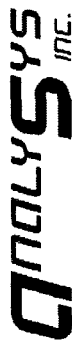
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-5

Report#/Lab ID#: 173926
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.9	70-130	---
Toluene-d8	8260b	108	80-127	---

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



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NM 88231

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

Report#/Lab ID#: 173927 **Report Date:** 11/29/05

Project ID: 2002-10286 Junction 34 to Lea

Sample Name: MW-6

Sample Matrix: water

Date Received: 11/22/2005 **Time:** 10:30

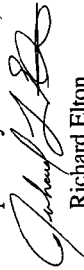
Date Sampled: 11/15/2005 **Time:** 15:15

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
Volatiles organics-8260b/BTEX	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1.13	µg/L	1	<1	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	2.16	µg/L	1	<1	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	<2	µg/L	2	<2	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	---	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	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. © 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.


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: 2002-10286 Junction 34 to Lea
Sample Name: MW-6

Report#/Lab ID#: 173927
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.2	70-130	---
Toluene-d8	8260b	108	80-127	---

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



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#: 173928 **Report Date:** 11/29/05

Project ID: 2002-10286 Junction 34 to Lea

Sample Name: MW-7

Sample Matrix: water

Date Received: 11/22/2005 **Time:** 10:30

Date Sampled: 11/15/2005 **Time:** 16:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		11/28/05	8260b(5030/5035)	---	---	---	---	---
Benzene	995	µg/L	10	<10	11/28/05	8260b	---	3.4	109.3	117.4	152.6
Ethylbenzene	540	µg/L	10	<10	11/28/05	8260b	---	2.4	115.3	122.5	114.5
m,p-Xylenes	312	µg/L	20	<20	11/28/05	8260b	---	2.4	114	121.7	115
o-Xylene	<1	µg/L	1	<1	11/28/05	8260b	J	2.6	106.9	114.1	107.9
Toluene	<1	µg/L	1	<1	11/28/05	8260b	J	1.5	109	113.7	156.9

QUALITY ASSURANCE DATA¹

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: 2002-10286 Junction 34 to Lea
Sample Name: MW-7

Report#/Lab ID#: 173928
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.5	70-130	---
Toluene-d8	8260b	105	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 173928 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10286 Junction 34 to Lea
Sample Name: MW-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
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

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		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>		PAH	
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Receivable		ACID/BASE		ICE/COOL		OTHER		DATE		TIME		BTEX 8021B							
City, State, Zip Eunice New Mexico 88231		PO Box 4648,		OTHER:		SLUDGE															
EPI Phone#/Fax# 505-394-3481 / 505-394-2601		Houston, TX 77210-4648		GROUND WATER		WASTEWATER															
Client Company Plains All American				# CONTAINERS		(G)RAB OR (C)OMP.															
Facility Name Junction 34 to Lea				SOIL		CRUDE OIL		OTHER:													
Project Reference 2002-10286				GROUND WATER		WASTEWATER															
EPI Sampler Name George Blackburn				SAMPLE I.D.		LAB I.D.															
				173922 1 MW-1		G 4 X															
				173923 2 MW-2		G 4 X															
				173924 3 MW-3		G 4 X															
				173925 4 MW-4		G 4 X															
				173926 5 MW-5		G 4 X															
				173927 6 MW-6		G 4 X															
				173928 7 MW-7		G 4 X															
				8																	
				9																	
				10																	

Sampler Relinquished:		Date Time		Received By: <i>Peggy Pollen</i>	
Relinquished by: <i>Jason Mcginnis</i>		Date Time 11-21-05 16:00		Received By: (lab staff) ASL 11-22-05 10:30 AM	
Delivered by:		Sample Cool & Intact Yes ☒ No ☐		Checked By:	

Temp: 2.1?

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

REMARKS:

Martin, Ed, EMNRD

To: Camille J Reynolds
Subject: RE: Plains Proposal for additional drilling

All of the proposed monitor well sites are approved.

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: 505-476-3492
Fax: 505-476-3462
email: ed.martin@state.nm.us

1R-386

-----Original Message-----

From: Camille J Reynolds [mailto:cjreynolds@paalp.com]
Sent: Thursday, February 02, 2006 11:51 AM
To: Martin, Ed, EMNRD
Subject: Plains Proposal for additional drilling

Ed;

Please find attached the proposal for additional drilling to be conducted at various Plains remediation sites. Please contact me with any questions or comments.

Sincerely,

Camille

<<Additional MW installation.pdf>>

#####

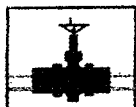
Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

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PLAINS PIPELINE

January 31, 2006

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

Re: Plains Pipeline Remediation Sites
Various Locations in Lea County

Dear Mr. Martin:

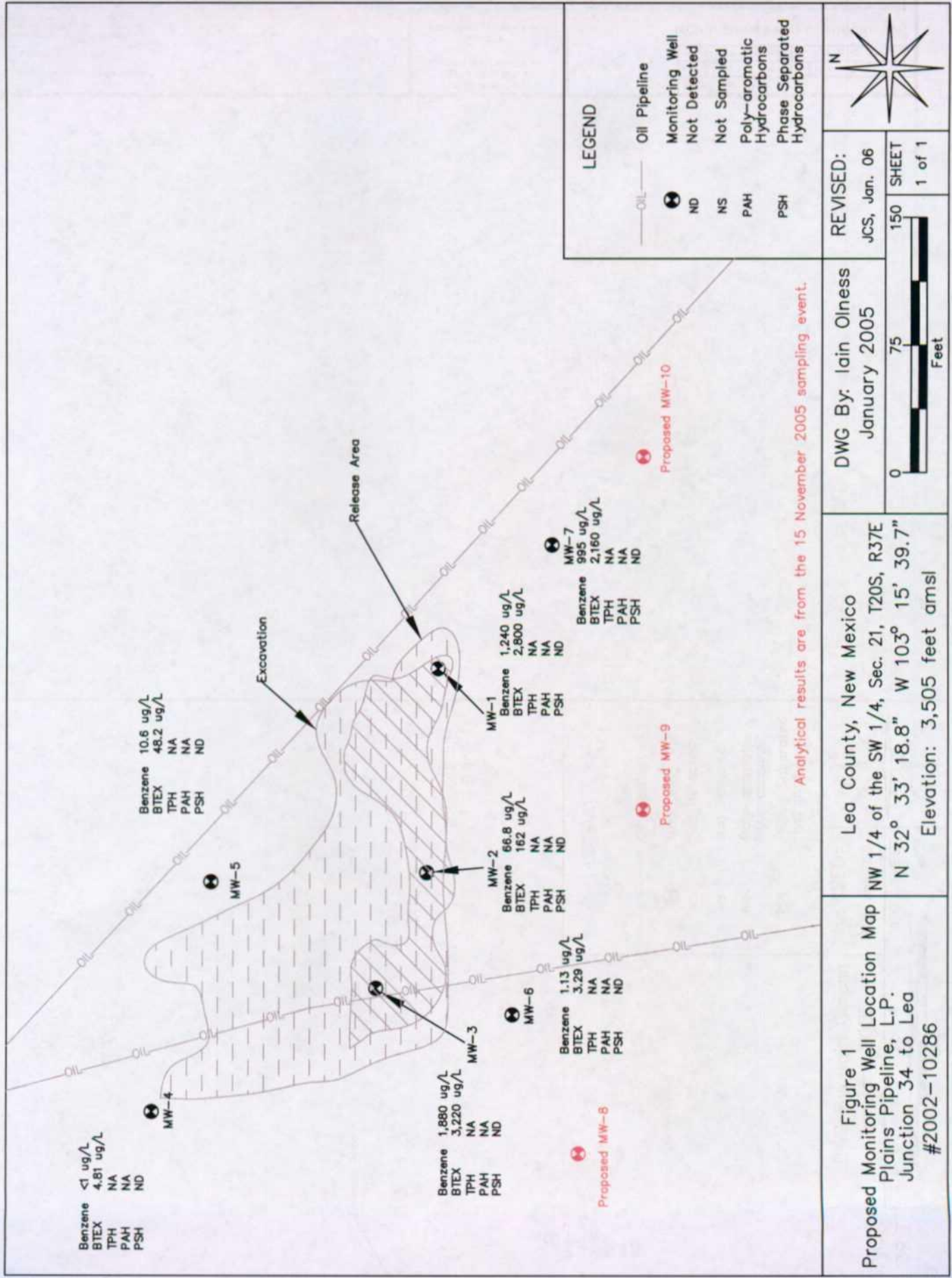
Based on the results of our ongoing groundwater monitoring and sampling program at several of our remediation and groundwater monitoring sites in Lea County, we have identified the need for additional groundwater monitor and/or recovery wells at the following sites.

Site Name	Plains EMS No.	Site Location	Number of Wells
SPS-11	TNM SPS-11	Section 18, T18S, R36E	2
Texaco Skelly F	2002-11229	Section 21, T20S, R37E	2 and/or 3
Red Byrd #1	TNM Red Byrd #1	Section 1, T19S, R36E	6
Junction 34 to Lea	2002-10286	Section 21, T20S, R37E	3
CS Caylor	2002-10250	Section 6, T17S, R37E	6
Abandoned Vacuum 10" Sour	2004-00208	Section 8, T20S, R37E	3
34 Junction South	2005-00138	Section 2, T17S, R36E	3
WSDDU Texaco	2001-11152	Section 31, T24S, R38E	3
D. S. Hugh Gathering	2000-10807	Section 3, T21S, R37E	2

The proposed well locations are illustrated on the attached site maps. Plains requests your approval of the proposed monitor well locations at the above referenced sites. We anticipate commencement of drilling activities the week of February 13, 2006. Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline





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 21, 2005

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

Re: Annual Monitoring Report
Plains All American Pipeline, L.P.
Junction 34 to Lea Site #2002-10286
UL-L, Section 21, T-20S, R-37E
Lea County, New Mexico
NMOCD Ref: 1R-386

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the report shown above. The report is accepted with the following understandings and conditions:

1. Plains All American Pipeline, L.P. (Plains) will continue to monitor for the presence of phase-separated hydrocarbons (PSH) on a semi-monthly basis. Plains will also collect groundwater level data from the monitoring well network and check the operation of the water sparging system on a semi-monthly basis.
2. Plains will conduct quarterly sampling activities of the groundwater monitoring well network and submit the samples for quantification of BTEX.
3. The installation of three additional groundwater monitoring wells south of the excavation, as shown on Figure 19 of the report is approved.
4. To accelerate the reduction of groundwater contaminants at this site, Plains must propose to the NMOCD a more aggressive groundwater treatment strategy by July 31, 2005.

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

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs



PLAINS ALL AMERICAN

February 15, 2005

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

IR-386

Re: Plains All American – Annual Monitoring Reports
4 Sites 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 reports for the following sites:

Denton Station	Section 14, Township 15 South, Range 37 East, Lea County
Lea Station Station	Section 28, Township 20 South, Range 37 East, Lea County
South Mattix	Section 15, Township 24 South, Range 37 East, Lea County
Junction 34 To Lea	Section 21, Township 20 South, Range 37 East, Lea County

EPI prepared these documents 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 these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above 4 facilities.

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



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

15 February 2005

Mr. Ed Martin

NM Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division – Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Annual Monitoring Report
Plains All American Pipeline, L.P. Junction 34 to Lea #2002-10286
UL-L Section 21, T20S, R37E, Lea County, New Mexico

Dear Mr. Martin,

Environmental Plus, Inc. (EPI), on behalf of Ms. Camille Reynolds, Plains All American Pipeline, L.P. (Plains), submits for your consideration this *Annual Monitoring Report* for the above-referenced site. Based on data collected during the past year, Plains recommends continued monitoring for the presence of phase-separated hydrocarbons (PSH) on a semi-monthly basis and collection of groundwater level data and continued quarterly sampling of the groundwater monitoring wells. Plains also recommends the installation of three (3) additional groundwater monitoring wells at the site to delineate the lateral extent and magnitude of the dissolved phase contaminants at the site (reference *Figure 19* of the enclosed report).

Should you have any questions or comments please feel free to contact me at (505) 394-3481. Ms. Reynolds may be contacted through Plains' Lovington office at (505) 396-3341.

All official correspondence should be addressed to:

Ms. Camille Reynolds
Plains All American Pipeline, L.P.
3112 West US Highway 182
Lovington, New Mexico 88260

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.
Hydrogeologist

cc: Larry W. Johnson, NMOCD – Hobbs District Office
Camille Reynolds, Plains All American Pipeline, L.P. – Lovington
Jeff Dann, Plains All American Pipeline, L.P. – Houston
File

ENVIRONMENTAL PLUS, INC.