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REPORTS

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**PLAINS
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IR-398

Report

2007

February 18, 2008

Mr. Edward J. Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Reports
2 Sites in Lea County, New Mexico

Dear Mr. Hansen:

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:

Livingston Line-B. McCasland
Livingston Ridge to H.P. Sims

Section 3, Township 21 South, Range 37 East, Lea County
Section 3, Township 21 South, Range 37 East, Lea County

Terracon 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 Terracon 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 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

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2007 ANNUAL GROUNDWATER MONITORING REPORT

**Livingston Ridge to Hugh - P. Sims
NE ¼ of the SE ¼ of Section 3, Township 21 South, Range 37 East
Plains Pipeline SRS Number 2001-11005
Lea County, New Mexico**

Terracon Project Number A4077008

February 4, 2008

Prepared for:

**Plains Pipeline, L.P.
3112 West US Highway 82
Lovington, New Mexico 88260
NMOCD File Number 1R-0398**

Prepared by:

Terracon

Midland, Texas

February 4, 2008

Plains Pipeline, L.P.
3112 West US Highway 82
Lovington, NM 88260
Attn: Ms. Camille Reynolds

Telephone: (505) 441-0965
Fax: (505) 397-0697

Terracon
Consulting Engineers & Scientists

Terracon Consultants, Inc.
24 Smith Road, Suite 261
Midland, Texas 79705
Phone 432.684.9600
Fax 432.684.9608
www.terracon.com

Re: 2007 Annual Groundwater Monitoring Report
Livingston Ridge to Hugh - P. Sims
NE ¼ of the SE ¼, Section 3, T21S, R37E
Lea County, New Mexico
Plains Pipeline, L.P. SRS Number 2001-11005
Terracon Project Number A4077008

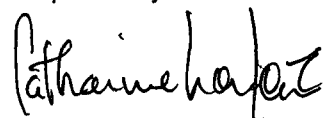
Dear Ms. Reynolds:

Terracon is pleased to submit four copies of the Annual Groundwater Monitoring Report for the above referenced site.

We appreciate the opportunity to perform these services for Plains Pipeline, L.P. Please contact either of the undersigned at (432) 684-9600 if you have questions regarding the information provided in the report.

Sincerely,
Terracon

Prepared by:



Catharine London, P. G.
Senior Project Manager

Reviewed by:



Barrett W. Bole, P. G.
Operations Manager

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Terracon

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2007 Annual Groundwater Monitoring Report

**Livingston Ridge to Hugh - P. Sims Site
NE ¼ of the SE ¼ of Section 3, T21S, R37E
Plains SRS Number 2001-11005
Lea County, New Mexico**

Terracon Project Number A4077008

1.0 INTRODUCTION

1.1 Site Description

Site Name	Livingston Ridge to Hugh - P. Sims
Site Location	Approximately 5 miles north-northeast of Eunice, Lea County, NM on Loop 207
General Site Description	Pipeline right-of-way surrounded by native pasture land, in close proximity of the Carbon Black Plant.

A topographic map is included as Figure 1 and a site plan is included as Figure 2 of Appendix A.

On June 22, 2001, a release of six barrels of crude oil was reported to the New Mexico Oil Conservation District (NMOCD). Initial excavation activities were reportedly conducted by Environmental Plus, Inc. (EPI) in an effort to stockpile saturated soils and expose the leak origin in order to repair the pipeline. The pipeline excavation activities continued during July 2001. A total of approximately 148 cubic yards of hydrocarbon impacted soil were excavated at the site and transported to EPI's landfarm south of Eunice, New Mexico. A temporary groundwater monitoring well (TMW-1) was installed in the bottom of the excavation. Phase-separated hydrocarbons (PSH) were detected on the groundwater surface and the NMOCD and landowner reportedly were immediately notified of the release. EPI installed three groundwater monitoring wells at the site to determine the extent and magnitude of the release and determine the groundwater gradient.

Environmental Technology Group, Inc. (ETGI), assumed control of remedial activities in August 2002 and installed twelve additional groundwater monitor wells at the site. These wells were installed to complete the delineation activities initiated by EPI. At the time of ETGI's investigation the groundwater monitor wells had adequately delineated the dissolved phase plume and PSH plume at the site.

Plains appointed EPI to take over the remediation and sampling activities in 2004. Terracon assumed consulting duties on February 1, 2007. Available files for this site were given to Terracon at this time.

In July 2007, Terracon oversaw the installation of a PVC liner on the floor of the excavation and backfilling the excavation with remediated soils from the previous land treatment area at the site in accordance with the NMOCD approved work plan. Details of these activities can be found in the Soil Closure Compliance Report dated August 17, 2007.

1.2 Scope of Work

Terracon's scope of work included assuming oversight of remedial activities on February 1, 2007. Oversight activities included the preparation of a 2006 annual groundwater monitoring and soil closure status reports and a 2007 annual groundwater monitoring report for submittal to the NMOCD. Four quarterly groundwater monitoring and sampling events were conducted during 2007 by Terracon. The events were performed on February 28, 2007, May 11, 2007, August 10, 2007, and November 15, 2007 at the Livingston Ridge to Hugh - P. Sims site located in Lea County, New Mexico.

The objective of the quarterly sampling events was to gauge the fifteen groundwater monitor wells (MW-1 through MW-15) and TMW-1 which is currently located in the center of the former excavation, and to collect samples of groundwater from each well for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) (quarterly), and polycyclic aromatic hydrocarbons (PAHs), (annually). PAH samples were collected on May 11, 2007.

1.3 Standard of Care

Terracon was awarded this project on February 1, 2007. Activities prior to February 2, 1006 were performed by previous consultant hired by Plains. Terracon makes no assumptions or warranties regarding the previous consultants services being performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report.

1.4 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of

work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this remediation activities. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.5 Reliance

This report has been prepared for the exclusive use of Plains Pipeline, L. P., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Plains Pipeline, L.P. and Terracon. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in this report, and Terracon's Terms and Conditions. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 FIELD ACTIVITIES

2.1 Groundwater Monitoring and Sampling

Quarterly monitoring and sampling events were performed on February 28, 2007, May 11, 2007, August 10, 2007, and November 15, 2007 by Terracon. Figure 1 presents the general boundaries and topography of the site on portions of the USGS topographic quadrangle map of Hobbs Southwest, New Mexico (Appendix A). Figure 2 is a site plan that indicates the approximate locations of the monitoring wells in relation to the pertinent features, structures and general site boundaries (Appendix A).

Monitoring wells were gauged monthly to determine the depth to groundwater and to check for the presence of phase separated hydrocarbons (PSH). Based on the gauging data, PSH was present during the fourth quarter in monitor well MW-1, and during the third and fourth quarters in temporary monitor well TMW-1 at thicknesses ranging from a sheen to 0.52-foot. Consequently, these two wells (MW-1 and TMW-1) were not sampled during these quarters. Groundwater gradient maps for each quarter are included as Figures 3 through 6 (Appendix A). Gauging data is included in Appendix B as Table 1.

A groundwater sample was collected and analyzed from each of the fifteen groundwater monitor wells and temporary monitor well TMW-1 during the February 2007 sampling event. Groundwater samples were not collected in from wells containing PSH or wells that were on the sample reduction program in February, August and November 2007. Prior to sample collection, each of these monitor wells was purged with a disposable bailer until three well volumes of water were removed, or the well failed to recharge. Following purging, a groundwater sample was collected using the disposable bailer.

Groundwater samples were placed in laboratory-supplied containers appropriate to the analyses requested and placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were delivered to either Environmental Lab of Texas, a Xenco Laboratories Company, an analytical laboratory in Odessa, Texas or Trace Analysis, Inc., an analytical laboratory in Midland, Texas, for standard turnaround analysis BTEX using EPA SW-846 Method 8021B in each of the four quarters and PAHs using EPA SW-846 Method 610 and 8270C in May 2007.

3.0 DATA EVALUATION

3.1 Water Level Data

Water level measurement data collected during the respective quarterly sampling events were used to construct groundwater gradient maps that are included as Figures 3, 4, 5, and 6 (Appendix A). Groundwater elevation contours generated from the quarterly sampling events of 2007 indicated the general groundwater gradient was consistent with previous sampling events:

- The gradient/direction during the February 2007 sampling event was 0.008 ft/ft and toward the southeast;
- The gradient/direction during the May 2007 sampling event was 0.001 ft/ft and toward the southeast;
- The gradient/direction during the August 2007 sampling event was 0.002 ft/ft and toward the southeast; and
- The gradient/direction during the November 2007 sampling event was 0.002 ft/ft and toward the southeast.

Groundwater flow direction remained relatively consistent throughout 2007. Water level measurement data is summarized in Table 1 in Appendix B.

3.2 Groundwater Analysis Data

Laboratory results from the analysis of groundwater samples collected from monitor wells MW-1 through MW-15 are summarized in Table 2 in Appendix B and presented as Figures 7 through Figure 10 in Appendix A. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix C.

Groundwater samples were collected during the first quarter on February 28, 2007. The first quarter results are summarized below:

- BTEX constituents were not detected above their respective laboratory reporting limits and/or NMWQCC groundwater standards in the groundwater samples collected from monitor wells MW-2, MW-3, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15;
- Benzene was detected in the groundwater samples collected from monitor wells MW-1 (at 0.714 mg/l), MW-4 (at 0.0221 mg/l), MW-5 (at 0.36 mg/l) and TMW-1 (at 1.66 mg/l), which exceeded the NMWQCC groundwater standard of 0.01 mg/l for benzene;
- Toluene, ethylbenzene and xylenes were not detected above their respective laboratory reporting limits and/or the NMWQCC groundwater standards in the groundwater samples collected from monitor wells MW-1 and MW-4;
- The groundwater sample collected from monitor well MW-5 contained total xylenes at a concentration of 5.04 mg/l, which exceeds the NMWQCC groundwater standard of 0.62 mg/l for total xylenes; however, toluene and ethylbenzene were not detected at concentrations exceeding their respective laboratory reporting limits and/or NMWQCC groundwater standards; and,
- Ethylbenzene was detected at a concentration of 0.777 mg/l and total xylenes were detected at a concentration of 1.6 mg/l, in the groundwater sample collected from TMW-1, which exceeded their respective NMWQCC groundwater standards of 0.75 mg/l and 0.62 mg/l. Toluene was not detected above laboratory reporting limits in the groundwater sample from TMW-1.

Groundwater samples were collected during the second quarter on May 11, 2007. The second quarter results are summarized below:

- Four monitor wells were not sampled for BTEX constituents in May 2007 as they are on a sample reduction schedule. These wells are groundwater monitor wells MW-2, MW-3, MW-7 and MW-8;
- The groundwater samples collected from monitor wells MW-6, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15 did not contain BTEX constituents above their respective laboratory reporting limits and/or NMWQCC groundwater standards;
- Benzene was detected in the groundwater samples collected from monitor wells MW-1 (at 0.966 mg/l), MW-4 (at 0.039 mg/l), MW-5 (at 0.397 mg/l) and TMW-1 (at 0.843 mg/l), which exceeded the NMWQCC groundwater standard of 0.01 mg/l for benzene;
- Toluene, ethylbenzene, and total xylenes were not detected in the groundwater samples collected from monitor wells MW-1, MW-4 and MW-5 at concentrations exceeding their respective laboratory reporting limits and/or the NMWQCC groundwater standards;
- The groundwater sample collected from monitor well TMW-1 contained total xylenes at a concentration of 3.189 mg/l, which exceeds the NMWQCC groundwater standard of 0.62 mg/l for total xylenes. Ethylbenzene was detected at a concentration of 1.03 mg/l, which exceeds the NMWQCC groundwater standard of 0.75 mg/l for ethylbenzene. Concentration of toluene in the groundwater sample collected from TMW-1 did not exceed their NMWQCC groundwater standard for toluene;
- During the May 2007 sampling event groundwater samples were also analyzed for PAH constituents. The groundwater samples collected from monitor wells MW-1 through MW-15 did not contain PAHs above their respective laboratory detection limits and/or the NMWQCC groundwater standards;
- PAH constituents benzo(a)pyrene and naphthalene were detected at concentrations exceeding their respective NMWQCC groundwater standards in the groundwater sample collected from TMW-1.

Groundwater samples were collected during the third quarter on August 10, 2007. The third quarter results are summarized below:

- Four monitor wells were not sampled for BTEX constituents in August 2007 as they are on a sample reduction schedule. These wells are groundwater monitor wells MW-2, MW-3, MW-7 and MW-8;

- Groundwater monitor well TMW-1 was not sampled during August 2007, due to the presence of PSH in the well;
- The groundwater samples collected from monitor wells MW-6, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15 did not contain BTEX constituents exceeding their respective laboratory limits and/or NMWQCC groundwater standards;
- Benzene was detected in the groundwater samples collected from MW-1 (at 1.031 mg/l), MW-4 (at 0.0171 mg/l) and MW-5 (at 0.2765 mg/l), at concentrations which exceed the NMWQCC groundwater standard; and,
- Toluene, ethylbenzene and total xylenes were not detected at concentrations exceeding their respectively laboratory reporting limits and/or NMWQCC groundwater standards in the groundwater samples collected from monitor wells MW-1, MW-4 and MW-5.

Groundwater samples for the fourth quarter 2007 event were collected on November 15, 2007. Results of the fourth quarter results are summarized below:

- Four monitor wells were not sampled for BTEX constituents in November 2007 as they are on a sample reduction schedule. These wells are groundwater monitor wells MW-2, MW-3, MW-7 and MW-8;
- Groundwater monitor wells MW-1 and TMW-1 were not sampled during November 2007, due to the presence of PSH in the wells;
- The groundwater samples collected from monitor wells MW-5, MW-6, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15 did not contain BTEX constituents exceeding their respective laboratory limits and/or NMWQCC groundwater standards; and,
- Benzene was detected in the groundwater samples collected from MW-4 (at 0.0108 mg/l), which exceeded the NMWQCC groundwater standard of 0.01 mg/l for benzene. Toluene, ethylbenzene and total xylenes were not detected at concentrations exceeding their respectively laboratory reporting limits and/or their NMWQCC groundwater standards.

4.0 FINDINGS AND RECOMMENDATION

4.1 Findings

The annual groundwater report presents the results of four groundwater monitoring and sampling events for the 2006 calendar year.

- Measurable PSH was detected in monitor well MW-1 in February and November 2007, at thicknesses of a sheen to 0.05 feet. A sheen of PSH was present in monitor well MW-1 in November 2007;
- PSH was detected periodically in monitor well TMW-1 in 2007, at thicknesses ranging from a sheen to 0.47 feet;
- The groundwater gradient during each quarterly sampling event for 2007, indicate a relatively consistent southeast groundwater flow direction;
- Four groundwater monitor wells (MW-2, MW-3, MW-7 and MW-8) are on a sample reduction program and are sampled annually for PAHs and BTEX constituents;
- In November 2007, monitor well MW-1 contained a sheen of PSH and was not sampled. In August 2007 and November 2007, monitor well TMW-1 contained PSH and was not sampled;
- The groundwater samples collected from monitor wells MW-2, MW-3, MW-6, MW-7 and MW-8 have not contained BTEX constituents above their respective laboratory reporting limits and/or their NMWQCC groundwater standards since they were installed in September 2002 at the site;
- The groundwater samples collected from monitor well MW-5 has contained benzene since May 2003; however, the groundwater sample collected in November 2007 contained benzene below the NMWQCC groundwater standard;
- Benzene was detected in the groundwater samples collected in November 2004 and March 2005 from monitor well MW-9; this well has not contained benzene at concentrations exceeding the NMWQCC groundwater standard since March 2005;
- Monitor wells have not contained benzene in the groundwater samples collected from MW-10 (since November 2006), MW-11 (since November 2005), MW-12 (since March 2005), MW-13 (since August 2005), MW-14 (since March 2005) and MW-15 (since August 2006), at concentrations above their respective laboratory reporting limit and/or NMWQCC groundwater standard;
- Groundwater monitor wells MW-1 (February 2007, May 2007 and August 2007); MW-4 (each of the four quarters); MW-5 (February 2007, May 2007 and August 2007), and TMW-1 (February 2007 and May 2007) contained benzene at concentrations above NMWQCC

groundwater standard. The remaining monitor wells were below the laboratory reporting limit and/or the NMWQCC groundwater standard for benzene in 2007;

- With the exception of monitor wells MW-5 and TMW-1, toluene, ethylbenzene and total xylenes were not detected in groundwater samples collected in 2007, with concentrations exceeding their respective laboratory reporting limits and/or their NMWQCC groundwater standards;
- Total xylenes were detected exceeding the NMWQCC groundwater standard in the groundwater sample collected in February 2007 from monitor well MW-5. However, the groundwater samples collected in May 2007, August 2007 and November did not exceed the NMWQCC groundwater standard for total xylenes in monitor well MW-5. Toluene and ethylbenzene were not detected in concentrations exceeding their respective laboratory reporting limits and/or their NMWQCC groundwater standards during 2007 in this monitor well;
- The groundwater samples collected in February 2007 and May 2007 from monitor well TMW-1 contained ethylbenzene and total xylenes, which exceeded their respective NMWQCC groundwater standards. Toluene was not detected in the groundwater sample collected from monitor well TMW-1 at concentrations exceeding its laboratory reporting limit and/or the NMWQCC groundwater standard in February 2007 and May 2007;
- PAH constituents were not detected in the groundwater samples collected at concentrations exceeding their respective laboratory reporting limits and/or their NMWQCC groundwater standards in monitor wells MW-1 through MW-15 in 2007;
- PAH constituents, naphthalene and benzo(a)pyrene, were detected in the groundwater sample collected from monitor well TMW-1 at concentrations exceeding their respective NMWQCC groundwater standards. Other PAH constituents were not detected at concentrations exceeding their respective laboratory reporting limits and/or their NMWQCC groundwater standards in the groundwater samples collected from TMW-1 in May 2007; and,
- The extent of the PSH plume and the dissolved phase plume exceeding the NMWQCC groundwater standards have been defined. Detected concentrations of BTEX and PAHs have demonstrated a decreasing trend since groundwater sampling activities were initiated.

5.2 RECOMMENDATIONS

Based upon the results of this report and approval from the NMOCD, Terracon recommends the following:

- Continue PSH recovery on the wells at the site on a once monthly schedule;
- Continue quarterly groundwater sampling for BTEX in groundwater monitor wells MW-1, MW-4, MW-5, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15 and annual sampling for PAHs on all monitor wells for the calendar year of 2007;
- Continue annual groundwater sampling for BTEX and PAHs for monitor wells MW-2, MW-3, MW-6, MW-7 and MW-8; and,
- Submit an annual report to the NMOCD detailing the 2007 site activities.

Plains Pipeline, L.P.
Livingston Ridge to Hugh P. Sims
Terracon Project Number A4077008
January 9, 2008

Terracon

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APPENDIX A

Figure 1 – Topographic Map

Figure 2 – Site Plan

Figure 3 – Groundwater Gradient Map (02/14/07)

Figure 4 – Groundwater Gradient Map (05/11/07)

Figure 5 – Groundwater Gradient Map (08/26/07)

Figure 6 – Groundwater Gradient Map (11/16/07)

Figure 7 – Groundwater Contaminant Concentration Map (02/28/07)

Figure 8 – Groundwater Contaminant Concentration Map (05/11/07)

Figure 9 – Groundwater Contaminant Concentration Map (08/10/07)

Figure 10 – Groundwater Contaminant Concentration Map (11/15/07)



Date: 08/15/07 O:\HBC\MIDLAND\A4077008.dwg Layout: SITE

LEGEND:

-  MONITOR WELL LOCATION
-  FENCE
-  OIL PIPELINE
-  OVERHEAD ELECTRIC LINE

0 40 80 FEET

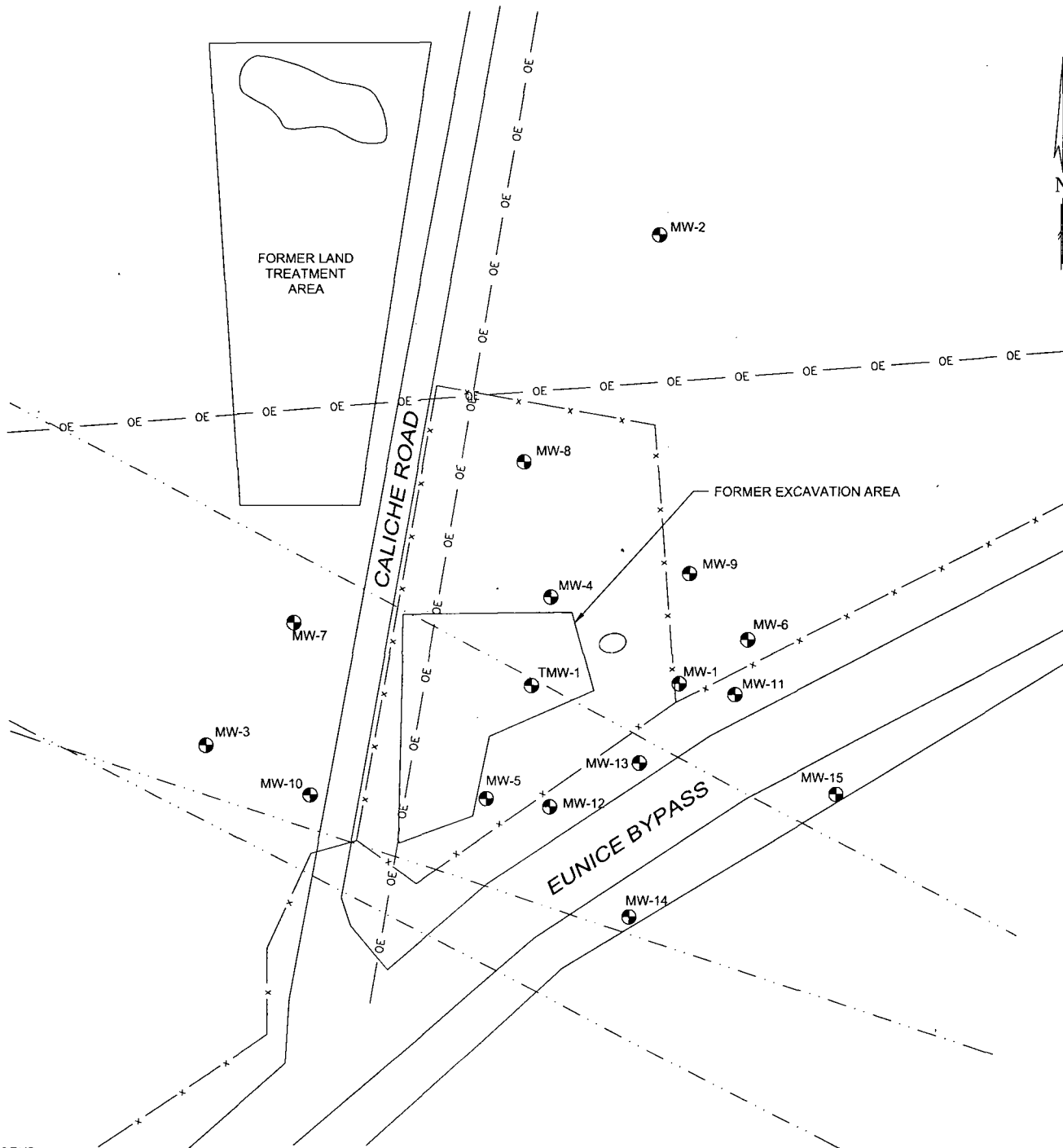
 APPROXIMATE SCALE

THIS DRAWING SHOULD
 NOT BE USED SEPARATELY
 FROM ORIGINAL REPORT.

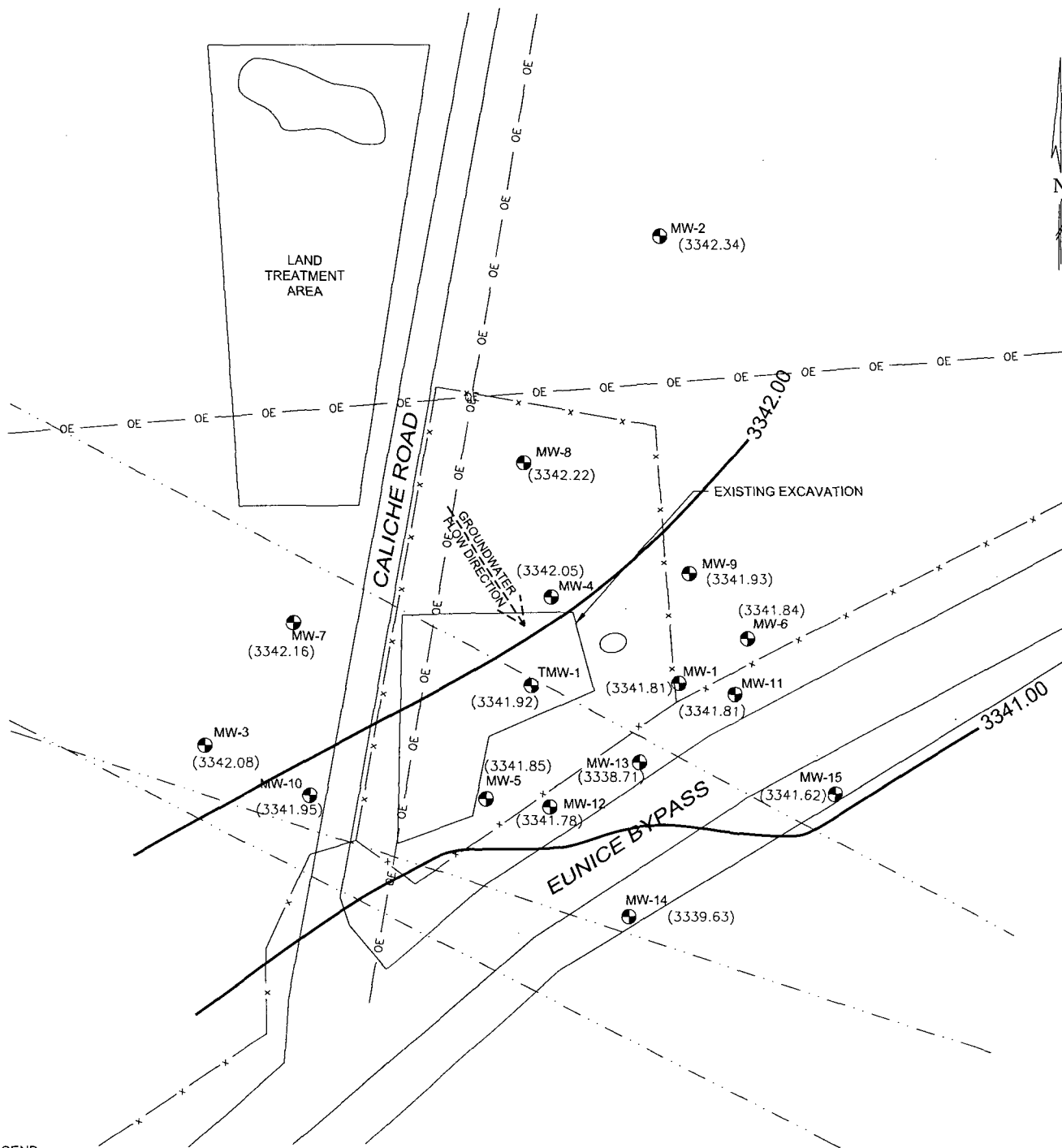
PLAINS PIPELINE, L.P.
 LIVINGSTON RIDGE TO HUGH P. SIMS
 LEA COUNTY, NEW MEXICO
 SRS# 2001-11005

FIGURE 2: SITE PLAN

Terracon Project No.: A4077008



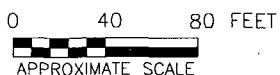
Date: 06/15/07 O:\HBC\MIDLAND\A4077008.dwg Layout: SITE



LEGEND:

- MONITOR WELL LOCATION
- x — FENCE
- - - OIL PIPELINE
- oe — OVERHEAD ELECTRIC LINE
- (3339.63) GROUNDWATER ELEVATION
- 3341.00 — GROUNDWATER ELEVATION CONTOUR LINE

THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.



PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE-HUGHS P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 3: GROUNDWATER GRADIENT
MAP 02/14/07**

O:\HBC\MIDLAND\A4077008.dwg Layout: SITE
Date: 12/31/07

LEGEND:

-  MONITOR WELL LOCATION
-  FENCE
-  OIL PIPELINE
-  OVERHEAD ELECTRIC LINE
-  (3342.54) GROUNDWATER ELEVATION
-  3343.00 GROUNDWATER ELEVATION CONTOUR LINE

0 40 80 FEET
APPROXIMATE SCALE

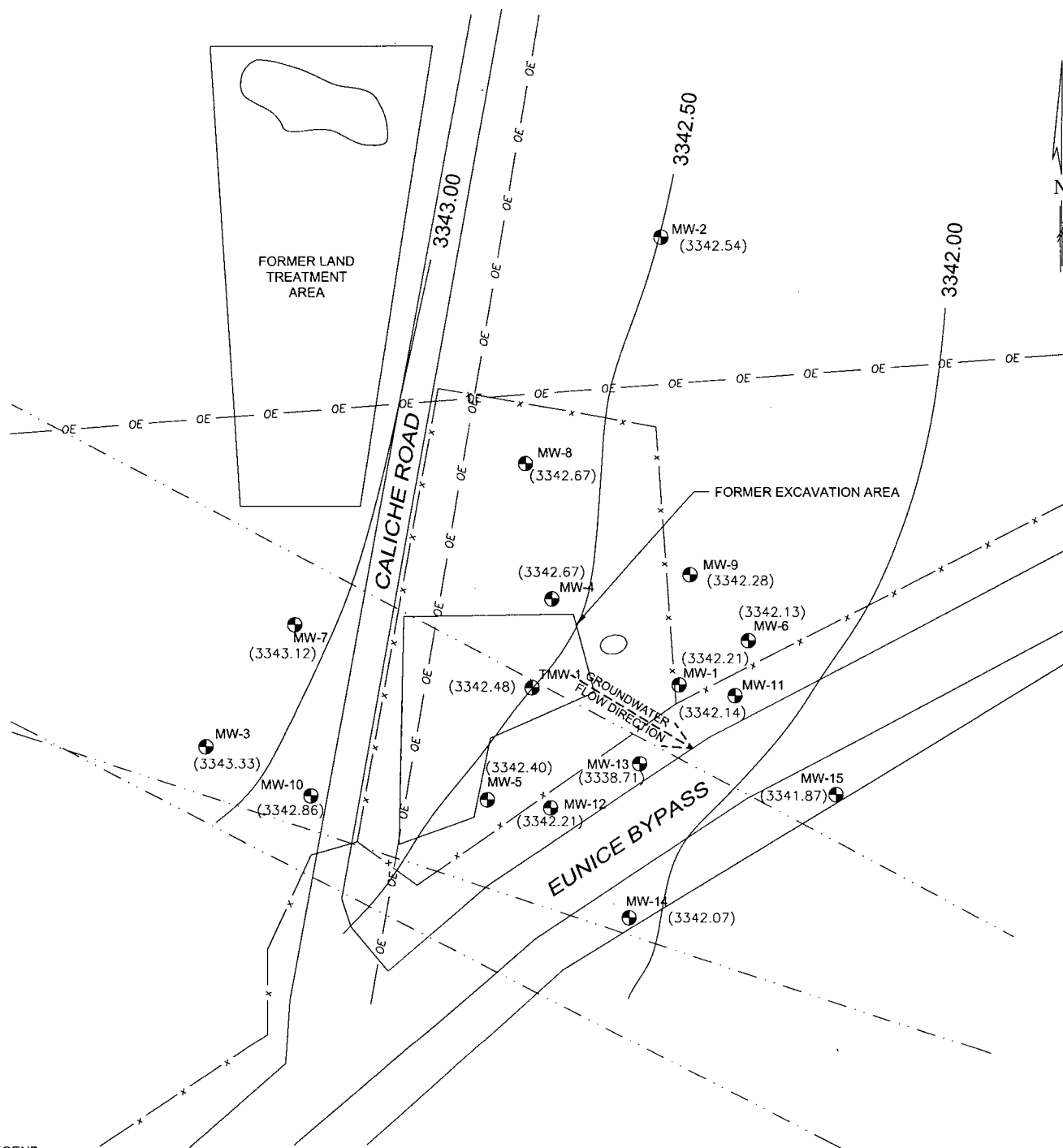
MW-13 THE GROUNDWATER ELEVATION FOR THIS WELL WAS NOT USED DUE TO THE DIFFERENCE IN DEPTH WITH RESPECT TO THE OTHER WELLS

THIS DRAWING SHOULD NOT BE USED SEPARATELY FROM ORIGINAL REPORT.

PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 4: GROUNDWATER GRADIENT
MAP 05/11/07**



O:\HBC\MIDLAND\A4077008.dwg Layout: SITE
Date: 12/31/07

LEGEND:

-  MONITOR WELL LOCATION
-  FENCE
-  OIL PIPELINE
-  OVERHEAD ELECTRIC LINE
-  (3342.09) GROUNDWATER ELEVATION
-  3342.00 GROUNDWATER ELEVATION CONTOUR LINE
-  (NS) NOT SURVEYED

MW-7/MW-12 THE GROUNDWATER ELEVATIONS FOR THESE WELLS WERE NOT USED DUE TO THE DIFFERENCE IN DEPTH WITH RESPECT TO THE OTHER WELLS

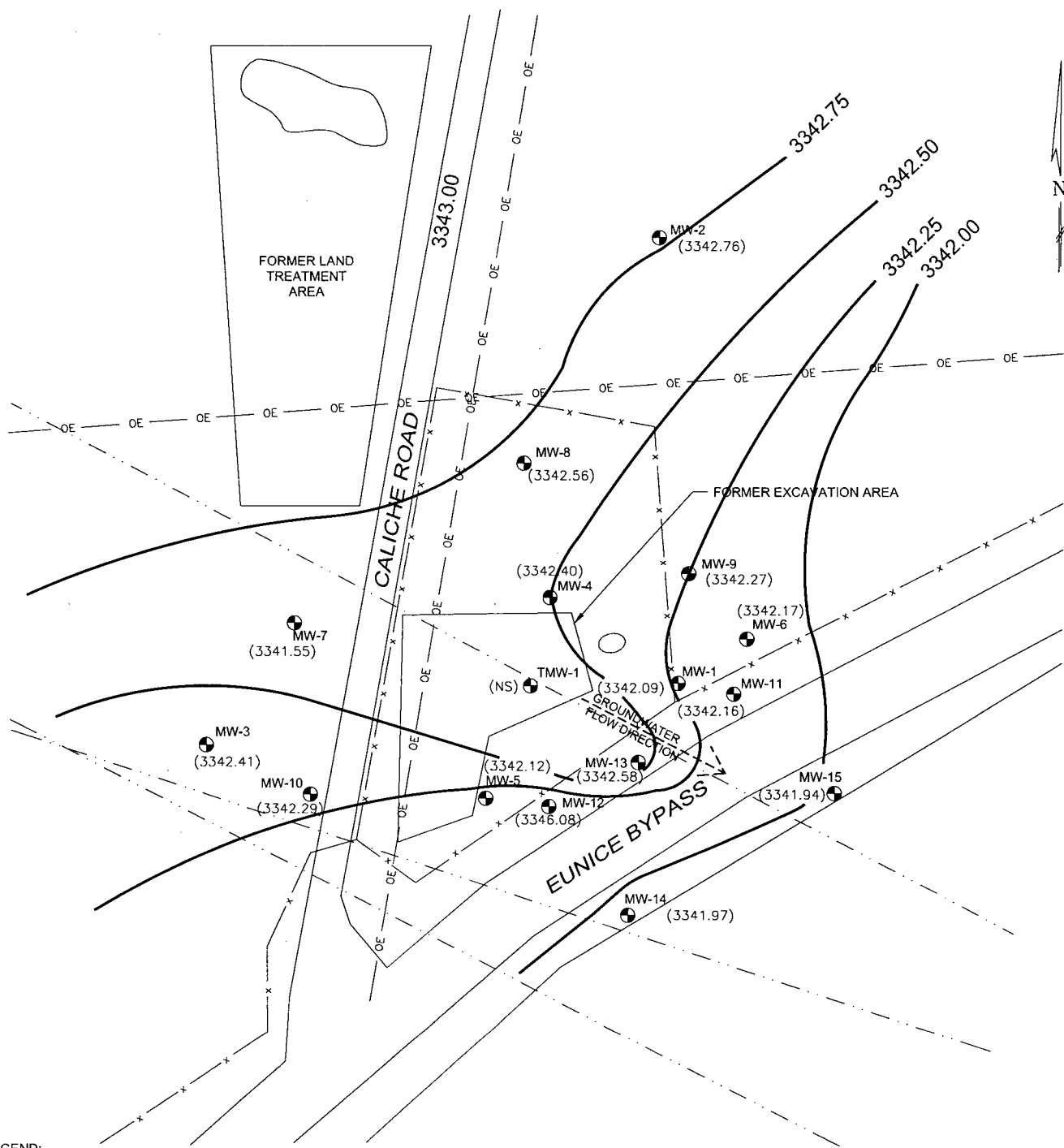
THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

0 40 80 FEET
APPROXIMATE SCALE

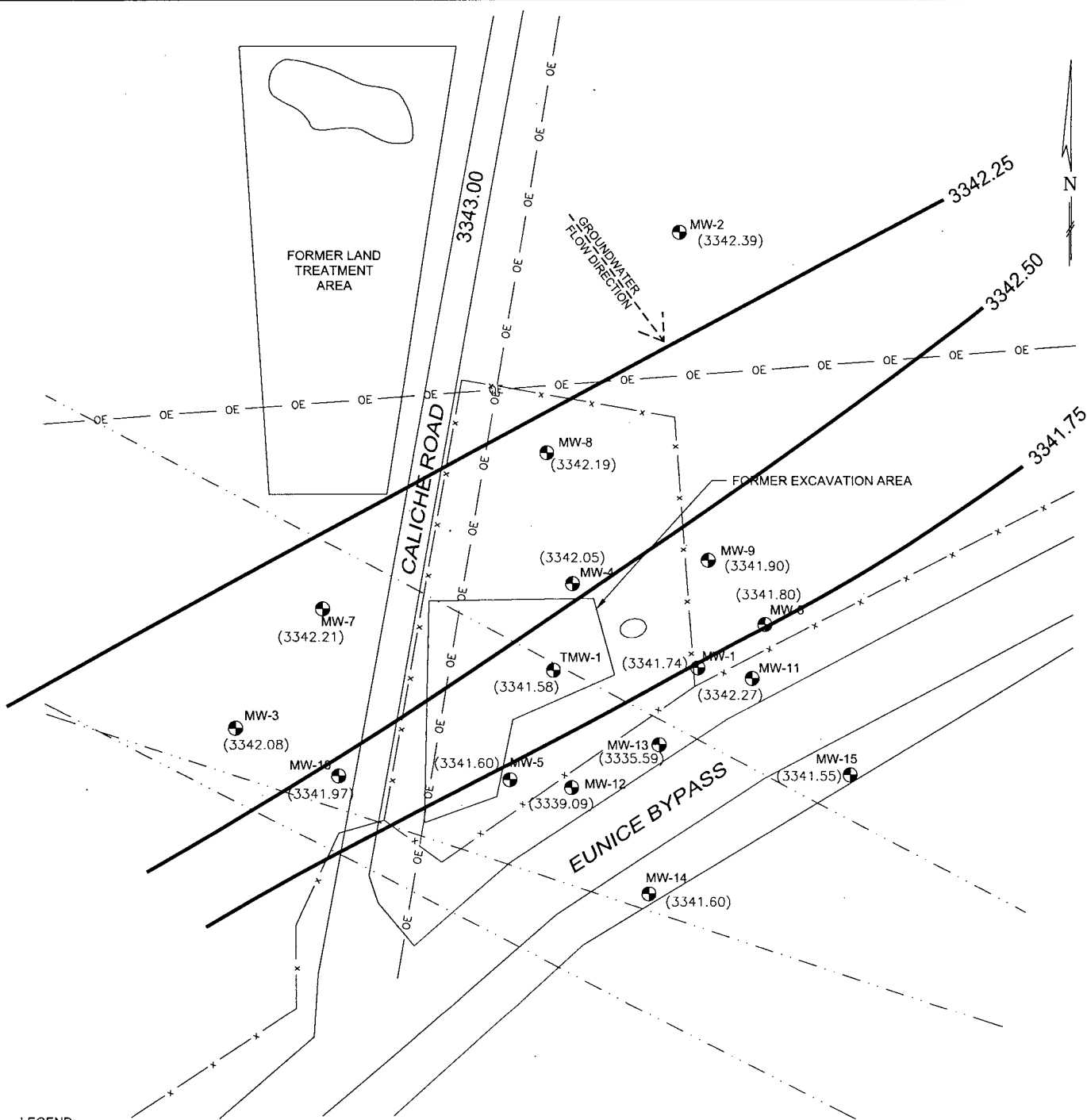
PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 5: GROUNDWATER GRADIENT
MAP 08/26/07**



Date: 01/02/08 O:\HBC\MIDLAND\A4077008.dwg Layout: SITE



LEGEND:

- MONITOR WELL LOCATION
- FENCE
- OIL PIPELINE
- OVERHEAD ELECTRIC LINE
- GROUNDWATER ELEVATION (3342.2)
- GROUNDWATER ELEVATION CONTOUR LINE

NOTE: MONITOR WELLS MW-11, MW-12 AND MW-13 NOT USED IN THE GRADIENT MAP DUE TO DIFFERENCE IN DEPTH WITH RESPECT TO THE OTHER WELLS.

THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

0 40 80 FEET
APPROXIMATE SCALE

PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 6: GROUNDWATER GRADIENT
MAP 11/16/07**

O:\HBC\MIDLAND\A4077008.dwg Layout: SITE
Date: 12/31/07

LEGEND:

-  MONITOR WELL LOCATION
-  FENCE
-  OIL PIPELINE
-  OVERHEAD ELECTRIC LINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES

CONCENTRATIONS ARE IN mg/L

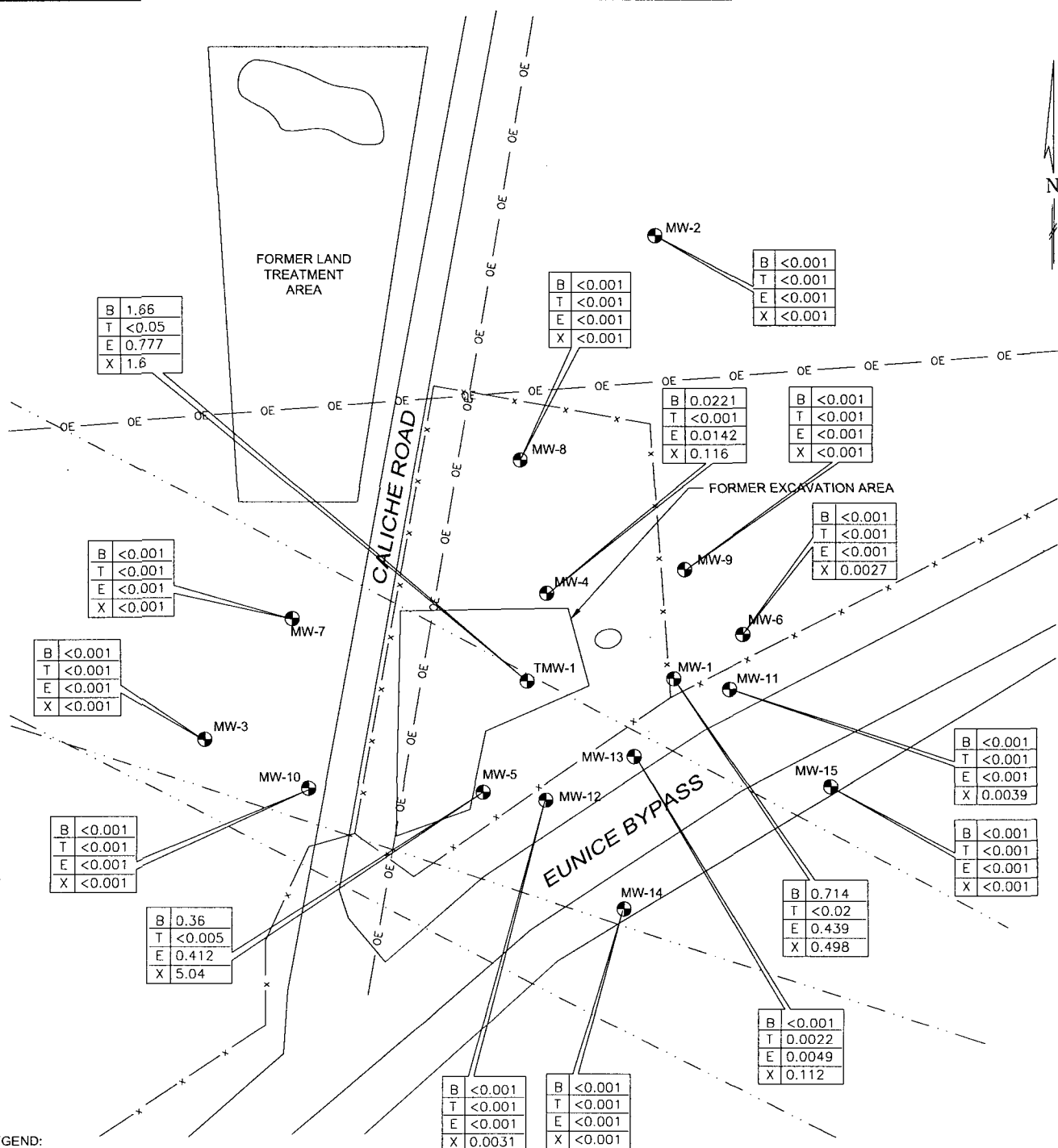
THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

0 40 80 FEET
APPROXIMATE SCALE

Terracon Project No.: A4077008

PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

**FIGURE 7: GROUNDWATER CONTAMINANT
CONCENTRATION MAP 02/28/07**



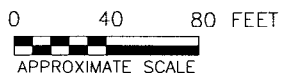
Date: 12/31/07 O:\HBC\MIDLAND\A4077008.dwg Layout: SITE

LEGEND:

-  MONITOR WELL LOCATION
-  FENCE
-  OIL PIPELINE
-  OVERHEAD ELECTRIC LINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- NS NOT SAMPLED

CONCENTRATIONS ARE IN mg/L

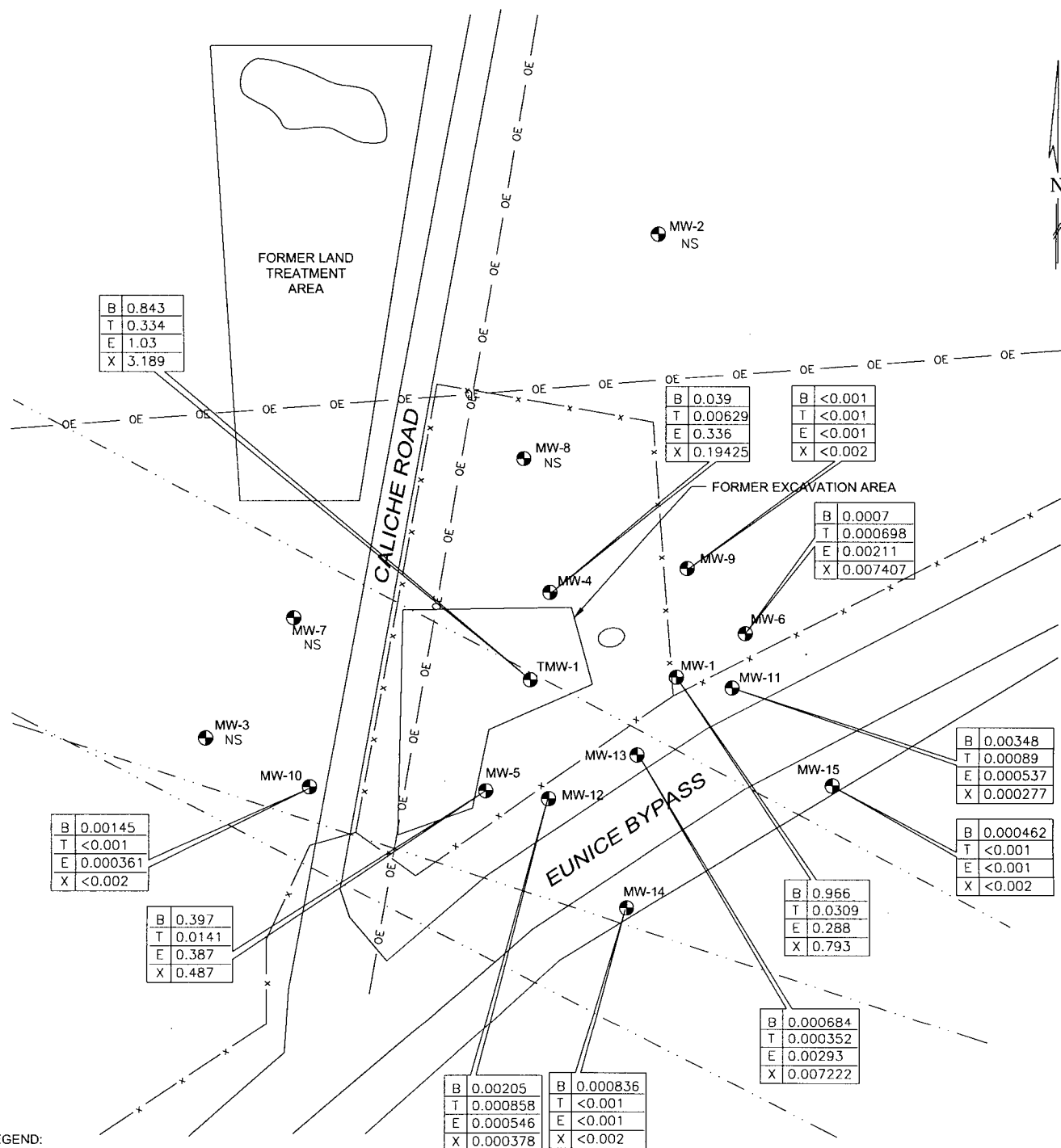
THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.



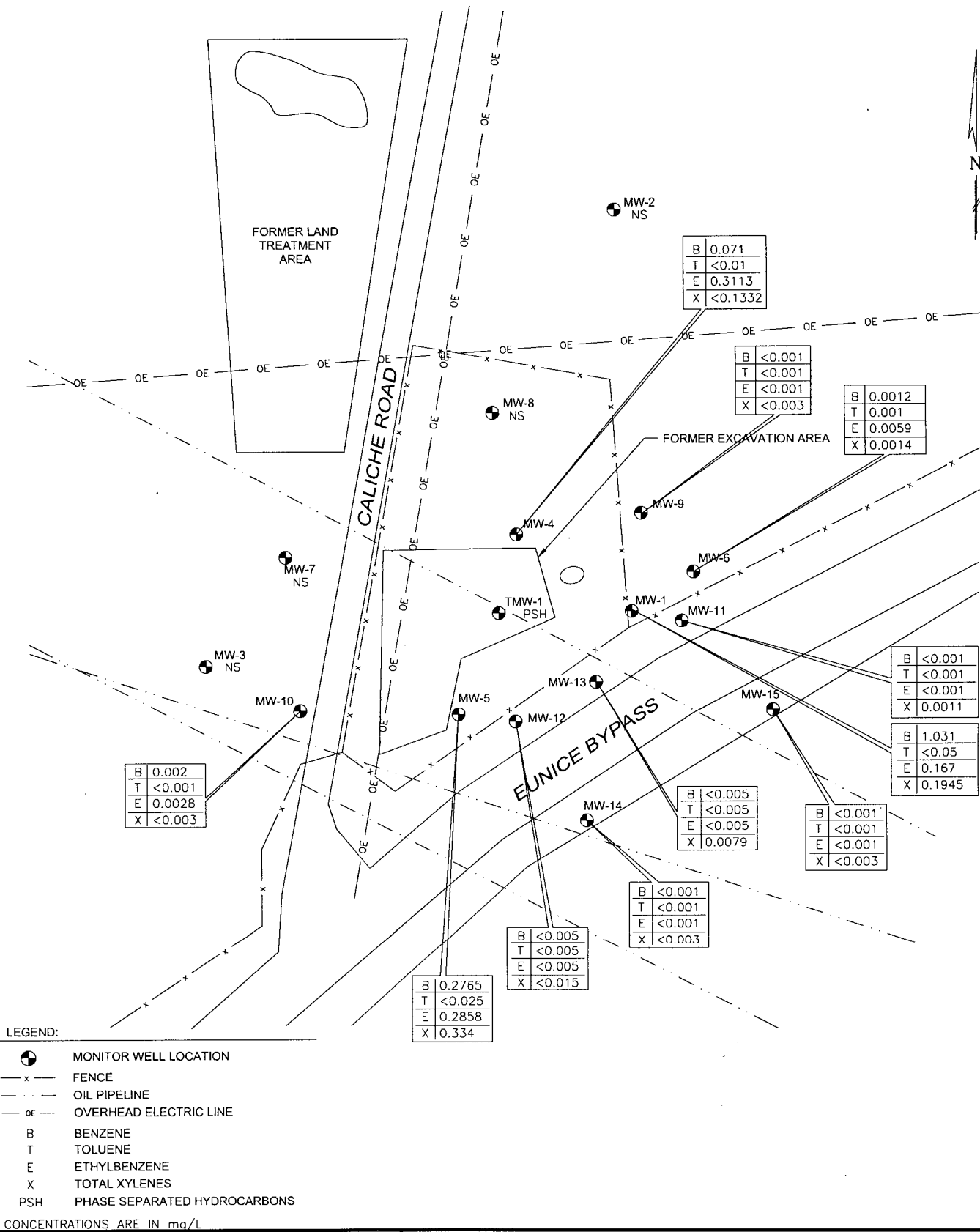
PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 8: GROUNDWATER CONTAMINANT
CONCENTRATION MAP 05/11/07**



O:\HBC\MIDLAND\A4077008.dwg Layout: SITE
Date: 02/05/08



THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

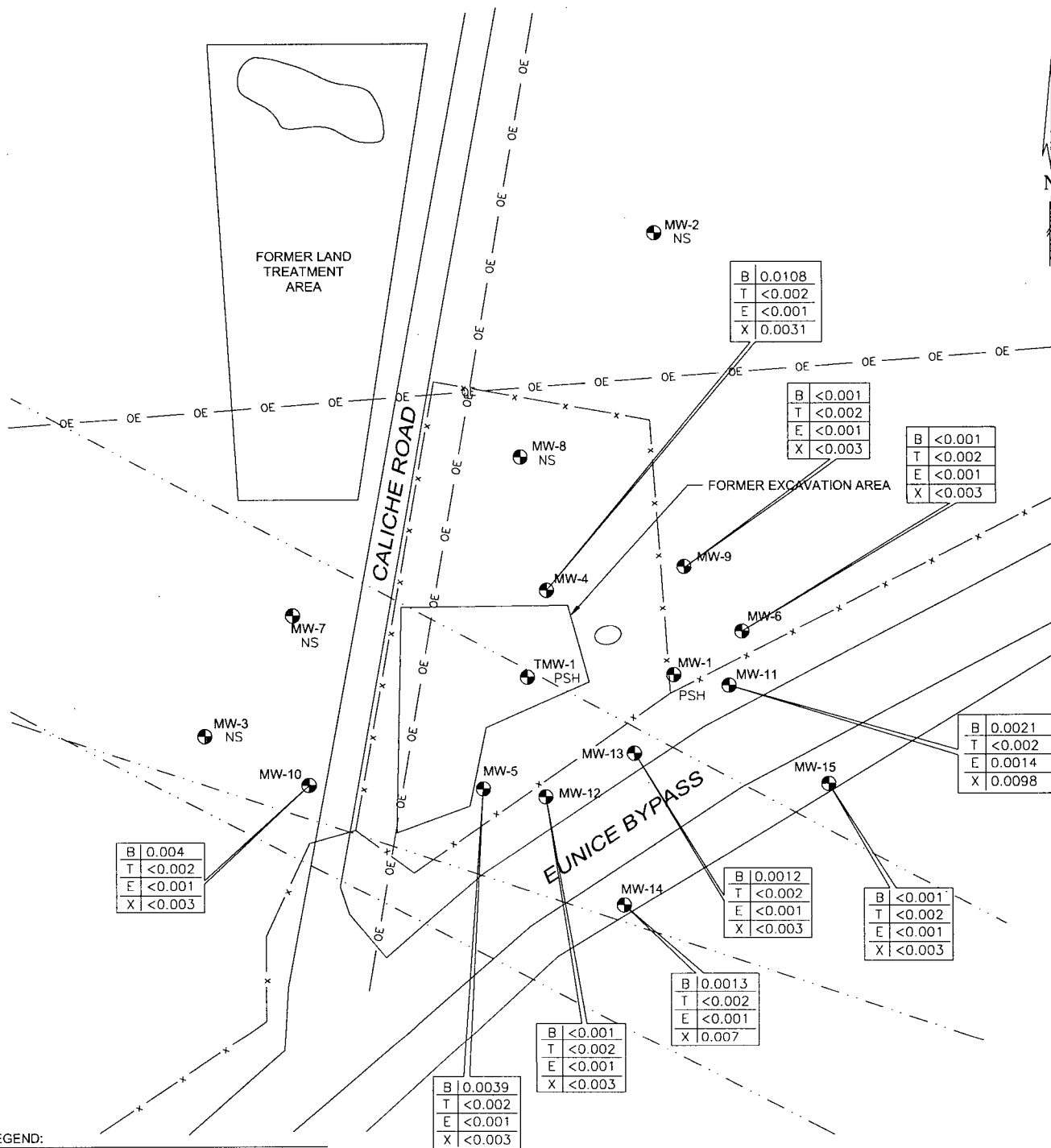
0 40 80 FEET
APPROXIMATE SCALE

PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 9: GROUNDWATER CONTAMINANT
CONCENTRATION MAP 08/10/07**

Date: 02/05/08 O:\HBC\MIDLAND\A4077008.dwg Layout: SITE



LEGEND:

- MONITOR WELL LOCATION
- - - FENCE
- ... OIL PIPELINE
- x - OVERHEAD ELECTRIC LINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- PSH PHASE SEPARATED HYDROCARBONS

CONCENTRATIONS ARE IN mg/L

THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

0 40 80 FEET
APPROXIMATE SCALE

PLAINS PIPELINE, L.P.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
SRS# 2001-11005

Terracon Project No.: A4077008

**FIGURE 10: GROUNDWATER CONTAMINANT
CONCENTRATION MAP 11/15/07**

APPENDIX B

Tables

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 1	08/15/02	3,374.23	37.24	42.29	5.05	3,336.23	
MW - 1	08/23/02		37.52	42.24	4.72	3,336.00	
MW - 1	08/27/02		37.58	42.21	4.63	3,335.96	
MW - 1	08/29/02		37.68	41.86	4.18	3,335.92	
MW - 1	09/04/02		37.81	42.21	4.40	3,335.76	
MW - 1	09/30/02		38.28	42.30	4.02	3,335.35	
MW - 1	10/02/02		38.20	42.25	4.05	3,335.42	
MW - 1	10/03/02		37.24	42.31	5.07	3,336.23	
MW - 1	10/08/02		38.40	42.40	4.00	3,335.23	
MW - 1	10/15/02*		38.49	42.32	3.83	3,335.17	
MW - 1	11/06/02		37.03	40.80	3.77	3,336.63	
MW - 1	12/27/02		36.64	40.43	3.79	3,337.02	
MW - 1	01/07/03		36.85	39.97	3.12	3,336.91	
MW - 1	01/27/03		37.14	39.55	2.41	3,336.73	
MW - 1	02/27/03		37.10	40.81	3.71	3,336.57	
MW - 1	03/06/03		37.70	38.48	0.78	3,336.41	
MW - 1	03/18/03		37.13	40.83	3.70	3,336.55	
MW - 1	03/20/03		37.22	40.81	3.59	3,336.47	
MW - 1	03/27/03		37.22	40.54	3.32	3,336.51	
MW - 1	04/16/03*		37.36	40.92	3.56	3,336.34	
MW - 1	05/12/03		37.55	40.28	2.73	3,336.27	
MW - 1	05/21/03		37.55	40.87	3.32	3,336.18	
MW - 1	06/03/03		37.55	41.03	3.48	3,336.16	
MW - 1	07/31/03		38.25	41.50	3.25	3,335.49	
MW - 1	08/06/03		38.51	41.73	3.22	3,335.24	
MW - 1	08/20/03		38.77	42.04	3.27	3,334.97	
MW - 1	10/02/03		38.92	41.33	2.41	3,334.95	
MW - 1	10/07/03		38.85	42.28	3.43	3,334.87	
MW - 1	10/16/03		39.19	42.66	3.47	3,334.52	
MW - 1	10/22/03*		38.25	42.68	4.43	3,335.32	
MW - 1	10/28/03		39.27	42.74	3.47	3,334.44	
MW - 1	11/06/03		38.39	42.75	4.36	3,335.19	
MW - 1	11/10/03		39.38	42.79	3.41	3,334.34	
MW - 1	11/18/03		39.14	42.48	3.34	3,334.59	
MW - 1	12/04/03		39.12	42.48	3.36	3,334.61	
MW - 1	12/17/03		39.12	42.49	3.37	3,334.60	
MW - 1	12/22/03		38.81	42.26	3.45	3,334.90	
MW - 1	01/02/04		39.02	42.30	3.28	3,334.72	
MW - 1	01/19/04		39.46	42.86	3.40	3,334.26	
MW - 1	01/27/04*		39.51	42.90	3.39	3,334.21	
MW - 1	02/02/04		39.59	42.87	3.28	3,334.15	
MW - 1	02/17/04		39.05	42.22	3.17	3,334.70	
MW - 1	02/25/04		39.03	42.18	3.15	3,334.73	
MW - 1	03/01/04		39.04	42.13	3.09	3,334.73	
MW - 1	03/10/04		39.07	42.11	3.04	3,334.70	
MW - 1	03/15/04		39.20	42.51	3.31	3,334.53	
MW - 1	03/17/04		39.47	42.70	3.23	3,334.28	
MW - 1	03/22/04		39.51	42.61	3.10	3,334.26	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 1	03/24/04		39.01	42.02	3.01	3,334.77	
MW - 1	03/29/04*		39.52	42.68	3.16	3,334.24	
MW - 1	03/31/04		39.54	42.65	3.11	3,334.22	
MW - 1	04/12/04		34.05	34.05	0.00	3,340.18	
MW - 1	04/15/04		36.03	36.60	0.57	3,338.11	
MW - 1	04/19/04		35.31	35.50	0.19	3,338.89	
MW - 1	05/06/04		34.44	34.46	0.02	3,339.79	
MW - 1	06/23/04		35.24	35.86	0.62	3,338.90	
MW - 1	06/25/04		35.22	35.85	0.63	3,338.92	
MW - 1	06/30/04		35.19	35.87	0.68	3,338.94	
MW - 1	08/18/04		34.08	35.00	0.92	3,340.01	
MW - 1	09/10/04		33.60	34.59	0.99	3,340.48	
MW - 1	09/21/04		33.82	34.62	0.80	3,340.29	
MW - 1	10/05/04		31.24	31.77	0.53	3,342.91	
MW - 1	10/19/04		29.11	29.68	0.57	3,345.03	
MW - 1	11/02/04		29.02	29.19	0.17	3,345.18	
MW - 1	11/15/04		29.17	29.39	0.22	3,345.03	
MW - 1	12/06/04		0.00	29.43	0.00	3,344.80	
MW - 1	12/21/04		0.00	29.88	0.00	3,344.35	
MW - 1	01/03/05		0.00	29.81	0.00	3,344.42	
MW - 1	01/18/05		0.00	30.06	0.00	3,344.17	
MW - 1	02/01/05		0.00	30.25	0.00	3,343.98	
MW - 1	02/22/05		0.00	30.72	0.00	3,343.51	
MW - 1	04/21/05		0.00	30.97	0.00	3,343.26	
MW - 1	05/05/05		0.00	30.98	0.00	3,343.25	
MW - 1	05/17/05		0.00	31.00	0.00	3,343.23	
MW - 1	06/08/05		0.00	31.31	0.00	3,342.92	
MW - 1	06/22/05		0.00	31.44	0.00	3,342.79	
MW - 1	07/20/05		0.00	31.69	0.00	3,342.54	
MW - 1	08/15/05		0.00	31.33	0.00	3,342.90	
MW - 1	08/31/05		0.00	31.17	0.00	3,343.06	
MW - 1	09/14/05		0.00	31.19	0.00	3,343.04	
MW - 1	09/28/05		0.00	31.39	0.00	3,342.84	
MW - 1	11/09/05		0.00	31.88	0.00	3,342.35	
MW - 1	11/18/05		0.00	31.60	0.00	3,342.63	
MW - 1	11/30/05		0.00	32.01	0.00	3,342.22	
MW - 1	12/14/05		0.00	32.10	0.00	3,342.13	
MW - 1	12/28/05		0.00	32.14	0.00	3,342.09	
MW - 1	01/11/06		0.00	32.20	0.00	3,342.03	
MW - 1	01/25/06		0.00	32.36	0.00	3,341.87	
MW - 1	02/08/06		0.00	32.42	0.00	3,341.81	
MW - 1	02/16/06		0.00	31.90	0.00	3,342.33	
MW - 1	02/22/06		0.00	32.45	0.00	3,341.78	
MW - 1	03/08/06		0.00	32.48	0.00	3,341.75	
MW - 1	04/10/06		0.00	32.02	0.00	3,342.21	
MW - 1	05/22/06		0.00	32.21	0.00	3,342.02	
MW - 1	07/12/06		32.28	32.33	0.05	3,341.94	
MW - 1	08/07/06		32.63	32.71	0.08	3,341.59	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 1	10/17/06		0.00	32.09	0.00	3,342.14	
MW - 1	11/21/06		0.00	32.22	0.00	3,342.01	
MW - 1	12/13/06		0.00	32.35	0.00	3,341.88	
MW - 1	01/09/07		0.00	32.50	0.00	3,341.73	
MW - 1	02/14/07		0.00	32.42	0.00	3,341.81	
MW - 1	02/28/07		0.00	32.33	0.00	3,341.90	
MW - 1	03/13/07		32.37	32.42	0.05	3,341.85	0.10
MW - 1	03/23/07		0.00		0.00		0.25
MW - 1	04/09/07		0.00	32.41	0.00	3,341.82	
MW - 1	05/11/07		0.00	32.02	0.00	3,342.21	
MW - 1	05/16/07		0.00	31.67	0.00	3,342.56	
MW - 1	05/29/07		0.00	31.44	0.00	3,342.79	
MW - 1	06/06/07		0.00	31.43	0.00	3,342.80	
MW - 1	06/21/07		0.00	31.58	0.00	3,342.65	
MW - 1	07/12/07		0.00	31.74	0.00	3,342.49	
MW - 1	07/25/07		0.00	31.89	0.00	3,342.34	
MW - 1	08/08/07		0.00	32.19	0.00	3,342.04	
MW - 1	08/20/07		0.00	32.14	0.00	3,342.09	
MW - 1	09/07/07		0.00	32.28	0.00	3,341.95	
MW - 1	09/19/07		0.00	32.32	0.00	3,341.91	
MW - 1	10/01/07		0.00	32.36	0.00	3,341.87	
MW - 1	10/15/07		0.00	32.39	0.00	3,341.84	
MW - 1	11/02/07		0.00	32.45	0.00	3,341.78	
MW - 1	11/16/07		0.00	32.49	0.00	3,341.74	
MW - 2	08/15/02	3,378.27	0.00	41.67	0.00	3,336.60	
MW - 2	09/30/02		0.00	42.46	0.00	3,335.81	
MW - 2	11/06/02		0.00	41.88	0.00	3,336.39	
MW - 2	02/27/03		0.00	41.31	0.00	3,336.96	
MW - 2	03/18/03		0.00	41.37	0.00	3,336.90	
MW - 2	05/12/03		0.00	41.60	0.00	3,336.67	
MW - 2	08/20/03		0.00	42.53	0.00	3,335.74	
MW - 2	11/10/03		0.00	42.02	0.00	3,336.25	
MW - 2	02/17/04		0.00	43.19	0.00	3,335.08	
MW - 2	05/06/04		0.00	39.43	0.00	3,338.84	
MW - 2	08/18/04		0.00	37.87	0.00	3,340.40	
MW - 2	09/10/04		0.00	37.63	0.00	3,340.64	
MW - 2	09/21/04		0.00	37.67	0.00	3,340.60	
MW - 2	10/05/04		0.00	36.00	0.00	3,342.27	
MW - 2	10/19/04		0.00	33.67	0.00	3,344.60	
MW - 2	11/02/04		0.00	33.95	0.00	3,344.32	
MW - 2	11/15/04		0.00	33.10	0.00	3,345.17	
MW - 2	12/06/04		0.00	33.13	0.00	3,345.14	
MW - 2	12/21/04		0.00	33.04	0.00	3,345.23	
MW - 2	01/03/05		0.00	33.27	0.00	3,345.00	
MW - 2	01/18/05		0.00	33.50	0.00	3,344.77	
MW - 2	02/01/05		0.00	33.63	0.00	3,344.64	
MW - 2	02/22/05		0.00	34.05	0.00	3,344.22	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 2	04/21/05		0.00	34.34	0.00	3,343.93	
MW - 2	05/05/05		0.00	34.38	0.00	3,343.89	
MW - 2	05/17/05		0.00	34.41	0.00	3,343.86	
MW - 2	06/08/05		0.00	34.62	0.00	3,343.65	
MW - 2	06/22/05		0.00	34.78	0.00	3,343.49	
MW - 2	07/20/05		0.00	35.01	0.00	3,343.26	
MW - 2	08/15/05		0.00	34.73	0.00	3,343.54	
MW - 2	08/31/05		0.00	34.64	0.00	3,343.63	
MW - 2	09/14/05		0.00	34.60	0.00	3,343.67	
MW - 2	09/28/05		0.00	34.71	0.00	3,343.56	
MW - 2	11/09/05		0.00	35.18	0.00	3,343.09	
MW - 2	11/18/05		0.00	34.92	0.00	3,343.35	
MW - 2	11/30/05		0.00	35.29	0.00	3,342.98	
MW - 2	12/14/05		0.00	35.46	0.00	3,342.81	
MW - 2	12/28/05		0.00	35.51	0.00	3,342.76	
MW - 2	01/11/06		0.00	35.59	0.00	3,342.68	
MW - 2	01/25/06		0.00	35.77	0.00	3,342.50	
MW - 2	02/08/06		0.00	35.80	0.00	3,342.47	
MW - 2	02/16/06		0.00	35.24	0.00	3,343.03	
MW - 2	02/22/06		0.00	35.83	0.00	3,342.44	
MW - 2	03/08/06		0.00	35.84	0.00	3,342.43	
MW - 2	04/10/06		0.00	35.42	0.00	3,342.85	
MW - 2	05/22/06		0.00	35.51	0.00	3,342.76	
MW - 2	07/12/06		0.00	35.74	0.00	3,342.53	
MW - 2	08/07/06		0.00	36.10	0.00	3,342.17	
MW - 2	10/17/06		0.00	35.57	0.00	3,342.70	
MW - 2	11/21/06		0.00	35.72	0.00	3,342.55	
MW - 2	12/13/06		0.00	35.79	0.00	3,342.48	
MW - 2	01/09/07		0.00	35.96	0.00	3,342.31	
MW - 2	02/14/07		0.00	35.93	0.00	3,342.34	
MW - 2	02/28/07		0.00	35.88	0.00	3,342.39	
MW - 2	03/13/07		0.00	35.94	0.00	3,342.33	
MW - 2	05/11/07		0.00	35.73	0.00	3,342.54	
MW - 2	08/20/07		0.00	35.51	0.00	3,342.76	
MW - 2	11/16/07		0.00	35.88	0.00	3,342.39	
MW - 3	08/15/02	3,367.36	0.00	30.70	0.00	3,336.66	
MW - 3	09/30/02		0.00	31.65	0.00	3,335.71	
MW - 3	11/06/02		0.00	29.20	0.00	3,338.16	
MW - 3	02/27/03		0.00	30.01	0.00	3,337.35	
MW - 3	03/18/03		0.00	30.43	0.00	3,336.93	
MW - 3	05/12/03		0.00	30.67	0.00	3,336.69	
MW - 3	08/20/03		0.00	31.76	0.00	3,335.60	
MW - 3	11/10/03		0.00	32.33	0.00	3,335.03	
MW - 3	11/25/03		0.00	32.35	0.00	3,335.01	
MW - 3	02/17/04		0.00	32.31	0.00	3,335.05	
MW - 3	05/06/04		0.00	27.08	0.00	3,340.28	
MW - 3	08/18/04		0.00	25.91	0.00	3,341.45	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 3	09/10/04		0.00	26.10	0.00	3,341.26	
MW - 3	09/21/04		0.00	26.50	0.00	3,340.86	
MW - 3	10/05/04		0.00	20.49	0.00	3,346.87	
MW - 3	10/19/04		0.00	19.40	0.00	3,347.96	
MW - 3	11/02/04		0.00	19.80	0.00	3,347.56	
MW - 3	11/15/04		0.00	21.30	0.00	3,346.06	
MW - 3	12/06/04		0.00	21.73	0.00	3,345.63	
MW - 3	12/21/04		0.00	21.71	0.00	3,345.65	
MW - 3	01/03/05		0.00	22.38	0.00	3,344.98	
MW - 3	01/18/05		0.00	22.70	0.00	3,344.66	
MW - 3	02/01/05		0.00	22.93	0.00	3,344.43	
MW - 3	02/22/05		0.00	23.54	0.00	3,343.82	
MW - 3	04/21/05		0.00	23.84	0.00	3,343.52	
MW - 3	05/05/05		0.00	23.85	0.00	3,343.51	
MW - 3	05/17/05		0.00	23.96	0.00	3,343.40	
MW - 3	06/08/05		0.00	24.18	0.00	3,343.18	
MW - 3	06/22/05		0.00	24.33	0.00	3,343.03	
MW - 3	07/20/05		0.00	24.58	0.00	3,342.78	
MW - 3	08/15/05		0.00	24.05	0.00	3,343.31	
MW - 3	08/31/05		0.00	23.77	0.00	3,343.59	
MW - 3	09/14/05		0.00	23.98	0.00	3,343.38	
MW - 3	09/28/05		0.00	24.23	0.00	3,343.13	
MW - 3	11/09/05		0.00	24.77	0.00	3,342.59	
MW - 3	11/18/05		0.00	24.51	0.00	3,342.85	
MW - 3	11/30/05		0.00	24.90	0.00	3,342.46	
MW - 3	12/14/05		0.00	25.01	0.00	3,342.35	
MW - 3	12/28/05		0.00	25.06	0.00	3,342.30	
MW - 3	01/11/06		0.00	25.09	0.00	3,342.27	
MW - 3	01/25/06		0.00	25.22	0.00	3,342.14	
MW - 3	02/08/06		0.00	25.29	0.00	3,342.07	
MW - 3	02/16/06		0.00	24.88	0.00	3,342.48	
MW - 3	02/22/06		0.00	25.33	0.00	3,342.03	
MW - 3	03/08/06		0.00	25.33	0.00	3,342.03	
MW - 3	04/10/06		0.00	25.03	0.00	3,342.33	
MW - 3	05/22/06		0.00	25.18	0.00	3,342.18	
MW - 3	07/12/06		0.00	25.23	0.00	3,342.13	
MW - 3	08/07/06		0.00	25.68	0.00	3,341.68	
MW - 3	10/17/06		0.00	24.97	0.00	3,342.39	
MW - 3	11/21/06		0.00	25.26	0.00	3,342.10	
MW - 3	12/13/06		0.00	25.36	0.00	3,342.00	
MW - 3	01/09/07		0.00	25.60	0.00	3,341.76	
MW - 3	02/14/07		0.00	25.28	0.00	3,342.08	
MW - 3	02/28/07		0.00	25.23	0.00	3,342.13	
MW - 3	03/13/07		0.00	25.29	0.00	3,342.07	
MW - 3	05/11/07		0.00	24.03	0.00	3,343.33	
MW - 3	08/20/07		0.00	24.95	0.00	3,342.41	
MW - 3	11/16/07		0.00	25.28	0.00	3,342.08	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 4	08/15/02	3,372.73	0.00	36.22	0.00	3,336.51	
MW - 4	09/30/02		0.00	37.13	0.00	3,335.60	
MW - 4	11/06/02		0.00	35.72	0.00	3,337.01	
MW - 4	02/27/03		36.11	36.34	0.23	3,336.59	
MW - 4	03/06/03		35.97	37.06	1.09	3,336.60	
MW - 4	03/18/03		0.00	36.00	0.00	3,336.73	
MW - 4	03/20/03		0.00	36.05	0.00	3,336.68	
MW - 4	03/27/03		0.00	36.02	0.00	3,336.71	
MW - 4	04/16/03		0.00	36.18	0.00	3,336.55	
MW - 4	05/12/03		0.00	36.24	0.00	3,336.49	
MW - 4	05/21/03		36.34	36.34	0.00	3,336.39	
MW - 4	06/03/03		0.00	36.36	0.00	3,336.37	
MW - 4	07/31/03		0.00	35.47	0.00	3,337.26	
MW - 4	08/06/03		0.00	37.39	0.00	3,335.34	
MW - 4	08/20/03		0.00	37.66	0.00	3,335.07	
MW - 4	10/02/03		0.00	37.71	0.00	3,335.02	
MW - 4	10/07/03		38.68	38.69	0.01	3,334.05	
MW - 4	10/16/03		0.00	38.00	0.00	3,334.73	
MW - 4	10/22/03		0.00	38.09	0.00	3,334.64	
MW - 4	10/28/03		0.00	38.09	0.00	3,334.64	
MW - 4	11/06/03		0.00	38.19	0.00	3,334.54	
MW - 4	11/10/03		0.00	38.21	0.00	3,334.52	
MW - 4	11/18/03		0.00	37.93	0.00	3,334.80	
MW - 4	12/04/03		0.00	37.93	0.00	3,334.80	
MW - 4	12/17/03		0.00	37.95	0.00	3,334.78	
MW - 4	12/22/03		38.62	38.63	0.01	3,334.11	
MW - 4	01/02/04		0.00	37.85	0.00	3,334.88	
MW - 4	01/19/04		0.00	38.31	0.00	3,334.42	
MW - 4	01/27/04		0.00	38.24	0.00	3,334.49	
MW - 4	02/02/04		0.00	38.34	0.00	3,334.39	
MW - 4	02/17/04		0.00	37.87	0.00	3,334.86	
MW - 4	02/25/04		0.00	37.86	0.00	3,334.87	
MW - 4	03/01/04		0.00	37.84	0.00	3,334.89	
MW - 4	03/10/04		0.00	37.87	0.00	3,334.86	
MW - 4	03/15/04		0.00	37.99	0.00	3,334.74	
MW - 4	03/17/04		0.00	38.27	0.00	3,334.46	
MW - 4	03/22/04		0.00	38.20	0.00	3,334.53	
MW - 4	03/24/04		0.00	37.81	0.00	3,334.92	
MW - 4	03/29/04		0.00	38.29	0.00	3,334.44	
MW - 4	03/31/04		0.00	38.30	0.00	3,334.43	
MW - 4	04/12/04		36.30	37.94	1.64	3,336.18	
MW - 4	04/15/04		0.00	33.87	0.00	3,338.86	
MW - 4	04/19/04		33.29	33.29	0.00	3,339.44	
MW - 4	05/06/04		0.00	33.66	0.00	3,339.07	
MW - 4	06/23/04		33.52	33.57	0.05	3,339.20	
MW - 4	06/25/04		33.49	33.56	0.07	3,339.23	
MW - 4	06/30/04		33.47	33.52	0.05	3,339.25	
MW - 4	08/18/04		0.00	32.41	0.00	3,340.32	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 4	09/10/04		0.00	31.95	0.00	3,340.78	
MW - 4	09/21/04		0.00	32.19	0.00	3,340.54	
MW - 4	10/05/04		0.00	29.12	0.00	3,343.61	
MW - 4	10/19/04		0.00	27.05	0.00	3,345.68	
MW - 4	11/02/04		0.00	27.14	0.00	3,345.59	
MW - 4	11/15/04		0.00	27.37	0.00	3,345.36	
MW - 4	12/06/04		0.00	27.62	0.00	3,345.11	
MW - 4	12/21/04		0.00	27.63	0.00	3,345.10	
MW - 4	01/03/05		0.00	28.02	0.00	3,344.71	
MW - 4	01/18/05		0.00	28.25	0.00	3,344.48	
MW - 4	02/01/05		0.00	28.46	0.00	3,344.27	
MW - 4	02/22/05		0.00	29.00	0.00	3,343.73	
MW - 4	04/21/05		0.00	29.24	0.00	3,343.49	
MW - 4	05/05/05		0.00	29.24	0.00	3,343.49	
MW - 4	05/17/05		0.00	31.34	0.00	3,341.39	
MW - 4	06/08/05		0.00	29.56	0.00	3,343.17	
MW - 4	06/15/05		0.00	29.61	0.00	3,343.12	
MW - 4	06/22/05		0.00	29.69	0.00	3,343.04	
MW - 4	07/20/05		0.00	29.96	0.00	3,342.77	
MW - 4	08/15/05		0.00	29.54	0.00	3,343.19	
MW - 4	08/31/05		0.00	29.40	0.00	3,343.33	
MW - 4	09/14/05		0.00	29.44	0.00	3,343.29	
MW - 4	09/28/05		0.00	29.66	0.00	3,343.07	
MW - 4	11/09/05		0.00	30.14	0.00	3,342.59	
MW - 4	11/18/05		0.00	29.86	0.00	3,342.87	
MW - 4	11/30/05*		0.00	30.23	0.00	3,342.50	
MW - 4	12/14/05		0.00	30.39	0.00	3,342.34	
MW - 4	12/28/05*		0.00	30.44	0.00	3,342.29	
MW - 4	01/11/06		0.00	30.48	0.00	3,342.25	
MW - 4	01/25/06		0.00	30.65	0.00	3,342.08	
MW - 4	02/08/06		0.00	30.71	0.00	3,342.02	
MW - 4	02/16/06		0.00	30.17	0.00	3,342.56	
MW - 4	02/22/06		0.00	30.74	0.00	3,341.99	
MW - 4	03/08/06		0.00	30.76	0.00	3,341.97	
MW - 4	04/10/06		0.00	30.33	0.00	3,342.40	
MW - 4	05/22/06		0.00	30.53	0.00	3,342.20	
MW - 4	07/12/06		0.00	30.62	0.00	3,342.11	
MW - 4	08/07/06		0.00	31.00	0.00	3,341.73	
MW - 4	10/17/06		0.00	30.36	0.00	3,342.37	
MW - 4	11/21/06		0.00	30.50	0.00	3,342.23	
MW - 4	12/13/06		0.00	30.61	0.00	3,342.12	
MW - 4	01/09/07		0.00	30.91	0.00	3,341.82	
MW - 4	02/14/07		0.00	30.68	0.00	3,342.05	
MW - 4	02/28/07		0.00	30.65	0.00	3,342.08	
MW - 4	03/13/07		0.00	30.69	0.00	3,342.04	
MW - 4	05/11/07		0.00	30.09	0.00	3,342.64	
MW - 4	05/29/07		0.00	29.58	0.00	3,343.15	
MW - 4	06/06/07		0.00	29.59	0.00	3,343.14	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 4	06/21/07		0.00	29.75	0.00	3,342.98	
MW - 4	07/12/07		0.00	29.93	0.00	3,342.80	
MW - 4	07/25/07		0.00	30.18	0.00	3,342.55	
MW - 4	08/08/07		0.00	32.00	0.00	3,340.73	
MW - 4	08/20/07		0.00	30.33	0.00	3,342.40	
MW - 4	09/07/07		0.00	30.48	0.00	3,342.25	
MW - 4	09/19/07		0.00	32.55	0.00	3,340.18	
MW - 4	10/01/07		0.00	30.59	0.00	3,342.14	
MW - 4	10/15/07		0.00	30.61	0.00	3,342.12	
MW - 4	11/02/07		0.00	30.69	0.00	3,342.04	
MW - 4	11/16/07		0.00	30.68	0.00	3,342.05	
MW - 5	8/15/02*	3,370.92	34.52	34.85	0.33	3,336.35	
MW - 5	08/23/02		34.77	35.20	0.43	3,336.09	
MW - 5	08/27/02		34.84	35.19	0.35	3,336.03	
MW - 5	08/29/02		34.90	35.20	0.30	3,335.98	
MW - 5	09/04/02		35.03	35.05	0.02	3,335.89	
MW - 5	09/30/02		35.48	35.88	0.40	3,335.38	
MW - 5	10/02/02		35.39	35.85	0.46	3,335.46	
MW - 5	10/03/02		34.51	34.86	0.35	3,336.36	
MW - 5	10/08/02		35.57	36.02	0.45	3,335.28	
MW - 5	10/15/02		35.65	35.97	0.32	3,335.22	
MW - 5	11/06/02		33.72	33.80	0.08	3,337.19	
MW - 5	12/27/02		33.79	33.92	0.13	3,337.11	
MW - 5	01/07/03		0.00	34.19	0.00	3,336.73	
MW - 5	01/27/03		0.00	34.21	0.00	3,336.71	
MW - 5	02/27/03		34.53	34.66	0.13	3,336.37	
MW - 5	03/06/03		0.00	34.56	0.00	3,336.36	
MW - 5	03/18/03		0.00	34.63	0.00	3,336.29	
MW - 5	03/20/03		0.00	34.64	0.00	3,336.28	
MW - 5	03/27/03		0.00	34.48	0.00	3,336.44	
MW - 5	04/16/03		0.00	34.81	0.00	3,336.11	
MW - 5	05/12/03		0.00	34.66	0.00	3,336.26	
MW - 5	05/21/03		0.00	34.94	0.00	3,335.98	
MW - 5	06/03/03		0.00	34.92	0.00	3,336.00	
MW - 5	07/31/03		0.00	35.47	0.00	3,335.45	
MW - 5	08/06/03		0.00	35.82	0.00	3,335.10	
MW - 5	08/20/03		0.00	36.03	0.00	3,334.89	
MW - 5	10/02/03		0.00	36.16	0.06	3,334.81	
MW - 5	10/07/03		0.00	36.29	0.01	3,334.64	
MW - 5	10/16/03		0.00	36.54	0.00	3,334.38	
MW - 5	10/22/03		0.00	36.59	0.00	3,334.33	
MW - 5	10/28/03		0.00	36.63	0.00	3,334.29	
MW - 5	11/06/03		0.00	36.75	0.00	3,334.17	
MW - 5	11/10/03		0.00	36.79	0.00	3,334.13	
MW - 5	11/18/03		0.00	36.48	0.00	3,334.44	
MW - 5	12/04/03		0.00	36.76	0.00	3,334.16	
MW - 5	12/17/03		0.00	36.49	0.00	3,334.43	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 5	12/22/03		36.25	36.26	0.01	3,334.67	
MW - 5	01/02/04		36.82	36.84	0.02	3,334.10	
MW - 5	01/19/04		37.22	37.27	0.05	3,333.69	
MW - 5	01/27/04		37.25	37.28	0.03	3,333.67	
MW - 5	02/02/04		37.21	37.23	0.02	3,333.71	
MW - 5	02/17/04		0.00	36.35	0.00	3,334.57	
MW - 5	02/25/04		0.00	36.36	0.00	3,334.56	
MW - 5	03/01/04		0.00	36.38	0.00	3,334.54	
MW - 5	03/10/04		0.00	36.39	0.00	3,334.53	
MW - 5	03/15/04		36.59	36.60	0.01	3,334.33	
MW - 5	03/17/04		0.00	36.83	0.00	3,334.09	
MW - 5	03/22/04		0.00	37.50	0.00	3,333.42	
MW - 5	03/24/04		36.42	36.43	0.01	3,334.50	
MW - 5	03/29/04		0.00	36.97	0.00	3,333.95	
MW - 5	03/31/04		0.00	37.00	0.00	3,333.92	
MW - 5	04/12/04		0.00	31.34	0.00	3,339.58	
MW - 5	04/15/04		0.00	31.42	0.00	3,339.50	
MW - 5	04/19/04		0.00	31.09	0.00	3,339.83	
MW - 5	05/06/04		0.00	31.74	0.00	3,339.18	
MW - 5	08/18/04		0.00	29.70	0.00	3,341.22	
MW - 5	09/10/04		0.00	30.15	0.00	3,340.77	
MW - 5	09/21/04		0.00	30.46	0.00	3,340.46	
MW - 5	10/05/04		0.00	26.47	0.00	3,344.45	
MW - 5	10/19/04		0.00	24.59	0.00	3,346.33	
MW - 5	11/02/04		0.00	24.95	0.00	3,345.97	
MW - 5	11/15/04		0.00	25.48	0.00	3,345.44	
MW - 5	12/06/04		0.00	25.81	0.00	3,345.11	
MW - 5	12/21/04		0.00	25.87	0.00	3,345.05	
MW - 5	01/03/05		0.00	26.28	0.00	3,344.64	
MW - 5	01/18/05		0.00	26.59	0.00	3,344.33	
MW - 5	02/01/05		0.00	26.75	0.00	3,344.17	
MW - 5	02/22/05		0.00	27.38	0.00	3,343.54	
MW - 5	04/21/05		0.00	27.71	0.00	3,343.21	
MW - 5	05/05/05		0.00	27.10	0.00	3,343.82	
MW - 5	05/17/05		0.00	27.81	0.00	3,343.11	
MW - 5	06/08/05		0.00	28.05	0.00	3,342.87	
MW - 5	06/15/05		0.00	28.13	0.00	3,342.79	
MW - 5	06/22/05		0.00	28.17	0.00	3,342.75	
MW - 5	07/20/05		0.00	28.45	0.00	3,342.47	
MW - 5	08/15/05		0.00	28.01	0.00	3,342.91	
MW - 5	08/31/05		0.00	27.80	0.00	3,343.12	
MW - 5	09/14/05		0.00	27.88	0.00	3,343.04	
MW - 5	09/28/05		0.00	28.11	0.00	3,342.81	
MW - 5	11/09/05		0.00	28.63	0.00	3,342.29	
MW - 5	11/18/05		0.00	28.35	0.00	3,342.57	
MW - 5	11/30/05		0.00	28.73	0.00	3,342.19	
MW - 5	12/14/05		0.00	28.81	0.00	3,342.11	
MW - 5	12/28/05		0.00	28.87	0.00	3,342.05	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 5	01/11/06		0.00	28.94	0.00	3,341.98	
MW - 5	01/25/06		0.00	29.09	0.00	3,341.83	
MW - 5	02/08/06		0.00	29.14	0.00	3,341.78	
MW - 5	02/16/06		0.00	28.62	0.00	3,342.30	
MW - 5	02/22/06		0.00	29.20	0.00	3,341.72	
MW - 5	03/08/06		0.00	29.20	0.00	3,341.72	
MW - 5	04/10/06		0.00	28.82	0.00	3,342.10	
MW - 5	05/22/06		0.00	28.97	0.00	3,341.95	
MW - 5	07/12/06		0.00	29.04	0.00	3,341.88	
MW - 5	08/07/06		0.00	29.81	0.00	3,341.11	
MW - 5	10/17/06		0.00	28.79	0.00	3,342.13	
MW - 5	11/21/06		0.00	28.94	0.00	3,341.98	
MW - 5	12/13/06		0.00	29.07	0.00	3,341.85	
MW - 5	01/09/07		0.00	29.41	0.00	3,341.51	
MW - 5	02/14/07		0.00	29.07	0.00	3,341.85	
MW - 5	02/28/07		0.00	29.01	0.00	3,341.91	
MW - 5	03/13/07		0.00	29.06	0.00	3,341.86	
MW - 5	04/09/07		0.00	29.10	0.00	3,341.82	
MW - 5	05/11/07		0.00	28.52	0.00	3,342.40	
MW - 5	05/16/07		0.00	28.12	0.00	3,342.80	
MW - 5	05/29/07		0.00	28.02	0.00	3,342.90	
MW - 5	06/06/07		0.00	28.04	0.00	3,342.88	
MW - 5	06/21/07		0.00	28.24	0.00	3,342.68	
MW - 5	07/12/07		0.00	28.42	0.00	3,342.50	
MW - 5	07/25/07		0.00	28.56	0.00	3,342.36	
MW - 5	08/08/07		0.00	28.67	0.00	3,342.25	
MW - 5	08/20/07		0.00	28.80	0.00	3,342.12	
MW - 5	09/07/07		0.00	28.98	0.00	3,341.94	
MW - 5	09/19/07		0.00	29.08	0.00	3,341.84	
MW - 5	10/01/07		0.00	29.09	0.00	3,341.83	
MW - 5	10/15/07		0.00	29.22	0.00	3,341.70	
MW - 5	11/02/07		0.00	29.28	0.00	3,341.64	
MW - 5	11/16/07		0.00	29.32	0.00	3,341.60	
MW - 6	08/15/02	3,377.02	0.00	40.82	0.00	3,336.20	
MW - 6	09/30/02		0.00	41.69	0.00	3,335.33	
MW - 6	11/06/02		0.00	40.45	0.00	3,336.57	
MW - 6	02/27/03		0.00	40.48	0.00	3,336.54	
MW - 6	03/18/03		0.00	40.48	0.00	3,336.54	
MW - 6	05/12/03		0.00	40.75	0.00	3,336.27	
MW - 6	08/20/03		0.00	41.78	0.00	3,335.24	
MW - 6	11/10/03		0.00	42.29	0.00	3,334.73	
MW - 6	02/17/04		0.00	42.35	0.00	3,334.67	
MW - 6	05/06/04		0.00	38.00	0.00	3,339.02	
MW - 6	08/18/04		0.00	37.12	0.00	3,339.90	
MW - 6	09/10/04		0.00	36.59	0.00	3,340.43	
MW - 6	09/21/04		0.00	36.77	0.00	3,340.25	
MW - 6	10/05/04		0.00	34.50	0.00	3,342.52	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 6	10/19/04		0.00	32.34	0.00	3,344.68	
MW - 6	11/02/04		0.00	32.09	0.00	3,344.93	
MW - 6	11/15/04		0.00	32.16	0.00	3,344.86	
MW - 6	12/06/04		0.00	32.32	0.00	3,344.70	
MW - 6	12/21/04		0.00	32.29	0.00	3,344.73	
MW - 6	01/03/05		0.00	32.62	0.00	3,344.40	
MW - 6	01/18/05		0.00	32.83	0.00	3,344.19	
MW - 6	02/01/05		0.00	33.00	0.00	3,344.02	
MW - 6	02/22/05		0.00	33.49	0.00	3,343.53	
MW - 6	04/21/05		0.00	33.72	0.00	3,343.30	
MW - 6	05/05/05		0.00	33.73	0.00	3,343.29	
MW - 6	05/17/05		0.00	33.82	0.00	3,343.20	
MW - 6	06/08/05		0.00	34.05	0.00	3,342.97	
MW - 6	06/22/05		0.00	34.16	0.00	3,342.86	
MW - 6	07/20/05		0.00	34.40	0.00	3,342.62	
MW - 6	08/15/05		0.00	34.03	0.00	3,342.99	
MW - 6	08/31/05		0.00	33.97	0.00	3,343.05	
MW - 6	09/14/05		0.00	33.97	0.00	3,343.05	
MW - 6	09/28/05		0.00	34.14	0.00	3,342.88	
MW - 6	11/09/05		0.00	34.60	0.00	3,342.42	
MW - 6	11/18/05		0.00	34.35	0.00	3,342.67	
MW - 6	11/30/05		0.00	34.68	0.00	3,342.34	
MW - 6	12/14/05		0.00	34.84	0.00	3,342.18	
MW - 6	12/28/05		0.00	34.88	0.00	3,342.14	
MW - 6	01/11/06		0.00	34.97	0.00	3,342.05	
MW - 6	01/25/06		0.00	35.13	0.00	3,341.89	
MW - 6	02/08/06		0.00	35.17	0.00	3,341.85	
MW - 6	02/16/06		0.00	34.61	0.00	3,342.41	
MW - 6	02/22/06		0.00	35.29	0.00	3,341.73	
MW - 6	03/08/06		0.00	35.21	0.00	3,341.81	
MW - 6	04/10/06		0.00	34.77	0.00	3,342.25	
MW - 6	05/22/06		0.00	34.98	0.00	3,342.04	
MW - 6	07/12/06		0.00	35.08	0.00	3,341.94	
MW - 6	08/07/06		0.00	35.62	0.00	3,341.40	
MW - 6	10/17/06		0.00	34.85	0.00	3,342.17	
MW - 6	11/21/06		0.00	34.89	0.00	3,342.13	
MW - 6	12/13/06		0.00	35.09	0.00	3,341.93	
MW - 6	01/09/07		0.00	35.57	0.00	3,341.45	
MW - 6	02/14/07		0.00	35.18	0.00	3,341.84	
MW - 6	02/28/07		0.00	35.16	0.00	3,341.86	
MW - 6	03/13/07		0.00	35.21	0.00	3,341.81	
MW - 6	05/11/07		0.00	34.89	0.00	3,342.13	
MW - 6	08/10/07		0.00	34.77	0.00	3,342.25	
MW - 6	08/20/07		0.00	34.85	0.00	3,342.17	
MW - 6	11/16/07		0.00	35.22	0.00	3,341.80	
MW - 7	08/15/02	3,369.47	0.00	32.73	0.00	3,336.74	
MW - 7	09/30/02		0.00	33.65	0.00	3,335.82	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 7	11/06/02		0.00	31.70	0.00	3,337.77	
MW - 7	02/27/03		0.00	32.45	0.00	3,337.02	
MW - 7	03/18/03		0.00	32.48	0.00	3,336.99	
MW - 7	05/12/03		0.00	32.71	0.00	3,336.76	
MW - 7	08/20/03		0.00	33.82	0.00	3,335.65	
MW - 7	11/10/03		0.00	34.35	0.00	3,335.12	
MW - 7	02/17/04		0.00	34.33	0.00	3,335.14	
MW - 7	05/06/04		0.00	29.40	0.00	3,340.07	
MW - 7	08/18/04		0.00	28.47	0.00	3,341.00	
MW - 7	09/10/04		0.00	28.27	0.00	3,341.20	
MW - 7	09/21/04		0.00	28.59	0.00	3,340.88	
MW - 7	10/05/04		0.00	23.93	0.00	3,345.54	
MW - 7	10/19/04		0.00	22.28	0.00	3,347.19	
MW - 7	11/02/04		0.00	22.32	0.00	3,347.15	
MW - 7	11/15/04		0.00	23.54	0.00	3,345.93	
MW - 7	12/06/04		0.00	23.91	0.00	3,345.56	
MW - 7	12/21/04		0.00	24.03	0.00	3,345.44	
MW - 7	01/03/05		0.00	24.47	0.00	3,345.00	
MW - 7	01/18/05		0.00	24.75	0.00	3,344.72	
MW - 7	02/01/05		0.00	24.94	0.00	3,344.53	
MW - 7	02/22/05		0.00	25.57	0.00	3,343.90	
MW - 7	04/21/05		0.00	25.80	0.00	3,343.67	
MW - 7	05/05/05		0.00	25.79	0.00	3,343.68	
MW - 7	05/17/05		0.00	25.93	0.00	3,343.54	
MW - 7	06/08/05		0.00	26.16	0.00	3,343.31	
MW - 7	06/22/05		0.00	26.26	0.00	3,343.21	
MW - 7	07/20/05		0.00	26.54	0.00	3,342.93	
MW - 7	08/15/05		0.00	26.09	0.00	3,343.38	
MW - 7	08/31/05		0.00	25.87	0.00	3,343.60	
MW - 7	09/14/05		0.00	25.90	0.00	3,343.57	
MW - 7	09/28/05		0.00	26.22	0.00	3,343.25	
MW - 7	11/09/05		0.00	26.75	0.00	3,342.72	
MW - 7	11/18/05		0.00	26.45	0.00	3,343.02	
MW - 7	11/30/05		0.00	26.87	0.00	3,342.60	
MW - 7	12/14/05		0.00	26.99	0.00	3,342.48	
MW - 7	12/28/05		0.00	27.04	0.00	3,342.43	
MW - 7	01/11/06		0.00	27.08	0.00	3,342.39	
MW - 7	01/25/06		0.00	27.23	0.00	3,342.24	
MW - 7	02/08/06		0.00	27.28	0.00	3,342.19	
MW - 7	02/16/06		0.00	26.80	0.00	3,342.67	
MW - 7	02/22/06		0.00	27.32	0.00	3,342.15	
MW - 7	03/08/06		0.00	27.34	0.00	3,342.13	
MW - 7	04/10/06		0.00	27.01	0.00	3,342.46	
MW - 7	05/22/06		0.00	27.17	0.00	3,342.30	
MW - 7	07/12/06		0.00	27.20	0.00	3,342.27	
MW - 7	08/07/06		0.00	27.61	0.00	3,341.86	
MW - 7	10/17/06		0.00	26.97	0.00	3,342.50	
MW - 7	11/21/06		0.00	27.14	0.00	3,342.33	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 7	12/13/06		0.00	27.20	0.00	3,342.27	
MW - 7	01/09/07		0.00	27.49	0.00	3,341.98	
MW - 7	02/14/07		0.00	27.31	0.00	3,342.16	
MW - 7	02/28/07		0.00	27.22	0.00	3,342.25	
MW - 7	03/13/07		0.00	27.27	0.00	3,342.20	
MW - 7	05/11/07		0.00	26.35	0.00	3,343.12	
MW - 7	08/20/07		0.00	27.92	0.00	3,341.55	
MW - 7	11/16/07		0.00	27.26	0.00	3,342.21	
MW - 8	08/15/02	3,373.77	0.00	37.15	0.00	3,336.62	
MW - 8	09/30/02		0.00	37.95	0.00	3,335.82	
MW - 8	11/06/02		0.00	36.70	0.00	3,337.07	
MW - 8	02/27/03		0.00	36.83	0.00	3,336.94	
MW - 8	03/18/03		0.00	36.85	0.00	3,336.92	
MW - 8	05/12/03		0.00	37.09	0.00	3,336.68	
MW - 8	08/20/03		0.00	38.11	0.00	3,335.66	
MW - 8	11/10/03		0.00	38.67	0.00	3,335.10	
MW - 8	02/17/04		0.00	38.71	0.00	3,335.06	
MW - 8	05/06/04		0.00	34.26	0.00	3,339.51	
MW - 8	08/18/04		0.00	33.38	0.00	3,340.39	
MW - 8	09/10/04		0.00	32.86	0.00	3,340.91	
MW - 8	09/21/04		0.00	33.10	0.00	3,340.67	
MW - 8	10/05/04		0.00	30.25	0.00	3,343.52	
MW - 8	10/19/04		0.00	28.05	0.00	3,345.72	
MW - 8	11/02/04		0.00	28.15	0.00	3,345.62	
MW - 8	11/15/04		0.00	28.32	0.00	3,345.45	
MW - 8	12/06/04		0.00	28.51	0.00	3,345.26	
MW - 8	12/21/04		0.00	28.54	0.00	3,345.23	
MW - 8	01/03/05		0.00	28.89	0.00	3,344.88	
MW - 8	01/18/05		0.00	29.14	0.00	3,344.63	
MW - 8	02/01/05		0.00	29.32	0.00	3,344.45	
MW - 8	02/22/05		0.00	29.78	0.00	3,343.99	
MW - 8	04/21/05		0.00	30.10	0.00	3,343.67	
MW - 8	05/05/05		0.00	30.07	0.00	3,343.70	
MW - 8	05/17/05		0.00	30.19	0.00	3,343.58	
MW - 8	06/08/05		0.00	30.39	0.00	3,343.38	
MW - 8	06/22/05		0.00	30.52	0.00	3,343.25	
MW - 8	07/20/05		0.00	30.78	0.00	3,342.99	
MW - 8	08/15/05		0.00	30.40	0.00	3,343.37	
MW - 8	08/31/05		0.00	30.24	0.00	3,343.53	
MW - 8	09/14/05		0.00	30.27	0.00	3,343.50	
MW - 8	09/28/05		0.00	30.45	0.00	3,343.32	
MW - 8	11/09/05		0.00	30.98	0.00	3,342.79	
MW - 8	11/18/05		0.00	30.70	0.00	3,343.07	
MW - 8	11/30/05		0.00	31.06	0.00	3,342.71	
MW - 8	12/14/05		0.00	31.21	0.00	3,342.56	
MW - 8	12/28/05		0.00	31.26	0.00	3,342.51	
MW - 8	01/11/06		0.00	31.31	0.00	3,342.46	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 8	01/25/06		0.00	31.48	0.00	3,342.29	
MW - 8	02/08/06		0.00	31.54	0.00	3,342.23	
MW - 8	02/16/06		0.00	31.00	0.00	3,342.77	
MW - 8	02/22/06		0.00	31.57	0.00	3,342.20	
MW - 8	03/08/06		0.00	31.58	0.00	3,342.19	
MW - 8	04/10/06		0.00	31.18	0.00	3,342.59	
MW - 8	05/22/06		0.00	31.36	0.00	3,342.41	
MW - 8	07/12/06		0.00	31.42	0.00	3,342.35	
MW - 8	08/07/06		0.00	31.83	0.00	3,341.94	
MW - 8	10/17/06		0.00	31.22	0.00	3,342.55	
MW - 8	11/21/06		0.00	31.37	0.00	3,342.40	
MW - 8	12/13/06		0.00	31.45	0.00	3,342.32	
MW - 8	01/09/07		0.00	31.73	0.00	3,342.04	
MW - 8	02/14/07		0.00	31.55	0.00	3,342.22	
MW - 8	02/28/07		0.00	31.53	0.00	3,342.24	
MW - 8	03/13/07		0.00	31.58	0.00	3,342.19	
MW - 8	05/11/07		0.00	31.10	0.00	3,342.67	
MW - 8	08/20/07		0.00	31.21	0.00	3,342.56	
MW - 8	11/16/07		0.00	31.58	0.00	3,342.19	
MW - 9	08/15/02	3,375.92	0.00	39.60	0.00	3,336.32	
MW - 9	09/30/02		0.00	40.46	0.00	3,335.46	
MW - 9	11/06/02		0.00	39.30	0.00	3,336.62	
MW - 9	02/27/03		0.00	39.18	0.00	3,336.74	
MW - 9	03/18/03		0.00	39.30	0.00	3,336.62	
MW - 9	05/12/03		0.00	39.53	0.00	3,336.39	
MW - 9	10/02/03		0.00	40.50	0.00	3,335.42	
MW - 9	11/10/03		0.00	41.00	0.00	3,334.92	
MW - 9	02/17/04		0.00	41.12	0.00	3,334.80	
MW - 9	05/06/04		0.00	36.71	0.00	3,339.21	
MW - 9	08/18/04		0.00	35.89	0.00	3,340.03	
MW - 9	09/10/04		0.00	35.33	0.00	3,340.59	
MW - 9	09/21/04		0.00	35.55	0.00	3,340.37	
MW - 9	10/05/04		0.00	33.03	0.00	3,342.89	
MW - 9	10/19/04		0.00	30.96	0.00	3,344.96	
MW - 9	11/02/04		0.00	31.78	0.00	3,344.14	
MW - 9	11/15/04		0.00	30.98	0.00	3,344.94	
MW - 9	12/06/04		0.00	31.12	0.00	3,344.80	
MW - 9	12/21/04		0.00	31.08	0.00	3,344.84	
MW - 9	01/03/05		0.00	31.37	0.00	3,344.55	
MW - 9	01/18/05		0.00	31.62	0.00	3,344.30	
MW - 9	02/01/05		0.00	31.78	0.00	3,344.14	
MW - 9	02/22/05		0.00	32.24	0.00	3,343.68	
MW - 9	04/21/05		0.00	32.57	0.00	3,343.35	
MW - 9	05/05/05		0.00	32.57	0.00	3,343.35	
MW - 9	05/17/05		0.00	32.65	0.00	3,343.27	
MW - 9	06/08/05		0.00	32.85	0.00	3,343.07	
MW - 9	06/22/05		0.00	32.98	0.00	3,342.94	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 9	07/20/05		0.00	33.20	0.00	3,342.72	
MW - 9	08/15/05		0.00	32.85	0.00	3,343.07	
MW - 9	08/31/05		0.00	32.71	0.00	3,343.21	
MW - 9	09/14/05		0.00	32.73	0.00	3,343.19	
MW - 9	09/28/05		0.00	32.91	0.00	3,343.01	
MW - 9	11/09/05		0.00	33.38	0.00	3,342.54	
MW - 9	11/18/05		0.00	33.14	0.00	3,342.78	
MW - 9	11/30/05		0.00	33.48	0.00	3,342.44	
MW - 9	12/14/05		0.00	33.46	0.00	3,342.46	
MW - 9	12/28/05		0.00	33.69	0.00	3,342.23	
MW - 9	01/11/06		0.00	33.76	0.00	3,342.16	
MW - 9	01/25/06		0.00	33.93	0.00	3,341.99	
MW - 9	02/08/06		0.00	33.96	0.00	3,341.96	
MW - 9	02/16/06		0.00	33.45	0.00	3,342.47	
MW - 9	02/22/06		0.00	34.01	0.00	3,341.91	
MW - 9	03/08/06		0.00	34.01	0.00	3,341.91	
MW - 9	04/10/06		0.00	33.61	0.00	3,342.31	
MW - 9	05/22/06		0.00	33.78	0.00	3,342.14	
MW - 9	07/12/06		0.00	33.85	0.00	3,342.07	
MW - 9	08/07/06		0.00	34.23	0.00	3,341.69	
MW - 9	10/17/06		0.00	33.68	0.00	3,342.24	
MW - 9	11/21/06		0.00	33.83	0.00	3,342.09	
MW - 9	12/13/06		0.00	33.93	0.00	3,341.99	
MW - 9	01/09/07		0.00	34.18	0.00	3,341.74	
MW - 9	02/14/07		0.00	33.99	0.00	3,341.93	
MW - 9	02/28/07		0.00	33.96	0.00	3,341.96	
MW - 9	03/13/07		0.00	34.01	0.00	3,341.91	
MW - 9	05/11/07		0.00	33.64	0.00	3,342.28	
MW - 9	08/10/07		0.00	33.54	0.00	3,342.38	
MW - 9	08/20/07		0.00	33.65	0.00	3,342.27	
MW - 9	11/16/07		0.00	34.02	0.00	3,341.90	
MW - 10	08/15/02	3,370.17	0.00	33.66	0.00	3,336.51	
MW - 10	09/30/02		0.00	34.59	0.00	3,335.58	
MW - 10	11/06/02		0.00	32.40	0.00	3,337.77	
MW - 10	02/27/03		0.00	33.35	0.00	3,336.82	
MW - 10	03/18/03		0.00	33.37	0.00	3,336.80	
MW - 10	05/12/03		0.00	33.65	0.00	3,336.52	
MW - 10	08/20/03		0.00	34.70	0.00	3,335.47	
MW - 10	11/10/03		0.00	35.27	0.00	3,334.90	
MW - 10	02/17/04		0.00	35.27	0.00	3,334.90	
MW - 10	05/06/04		0.00	30.04	0.00	3,340.13	
MW - 10	08/18/04		0.00	29.13	0.00	3,341.04	
MW - 10	09/10/04		0.00	29.08	0.00	3,341.09	
MW - 10	09/21/04		0.00	29.48	0.00	3,340.69	
MW - 10	10/05/04		0.00	24.20	0.00	3,345.97	
MW - 10	10/19/04		0.00	22.80	0.00	3,347.37	
MW - 10	11/02/04		0.00	22.98	0.00	3,347.19	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW - 10	11/15/04		0.00	24.31	0.00	3,345.86	
MW - 10	12/06/04		0.00	24.74	0.00	3,345.43	
MW - 10	12/21/04		0.00	24.85	0.00	3,345.32	
MW - 10	01/03/05		0.00	25.31	0.00	3,344.86	
MW - 10	01/18/05		0.00	25.63	0.00	3,344.54	
MW - 10	02/01/05		0.00	25.84	0.00	3,344.33	
MW - 10	02/22/05		0.00	26.45	0.00	3,343.72	
MW - 10	04/21/05		0.00	26.74	0.00	3,343.43	
MW - 10	05/05/05		0.00	26.75	0.00	3,343.42	
MW - 10	05/17/05		0.00	26.85	0.00	3,343.32	
MW - 10	06/08/05		0.00	27.07	0.00	3,343.10	
MW - 10	06/22/05		0.00	27.21	0.00	3,342.96	
MW - 10	07/20/05		0.00	27.46	0.00	3,342.71	
MW - 10	08/15/05		0.00	26.96	0.00	3,343.21	
MW - 10	08/31/05		0.00	26.76	0.00	3,343.41	
MW - 10	09/14/05		0.00	26.90	0.00	3,343.27	
MW - 10	09/28/05		0.00	27.16	0.00	3,343.01	
MW - 10	11/09/05		0.00	27.68	0.00	3,342.49	
MW - 10	11/18/05		0.00	27.43	0.00	3,342.74	
MW - 10	11/30/05		0.00	27.75	0.00	3,342.42	
MW - 10	12/14/05		0.00	27.93	0.00	3,342.24	
MW - 10	12/28/05		0.00	27.98	0.00	3,342.19	
MW - 10	01/11/06		0.00	28.01	0.00	3,342.16	
MW - 10	01/25/06		0.00	28.17	0.00	3,342.00	
MW - 10	02/08/06		0.00	28.23	0.00	3,341.94	
MW - 10	02/16/06		0.00	27.80	0.00	3,342.37	
MW - 10	02/22/06		0.00	28.27	0.00	3,341.90	
MW - 10	03/08/06		0.00	28.26	0.00	3,341.91	
MW - 10	04/10/06		0.00	27.93	0.00	3,342.24	
MW - 10	05/22/06		0.00	28.05	0.00	3,342.12	
MW - 10	07/12/06		0.00	28.13	0.00	3,342.04	
MW - 10	08/07/06		0.00	28.51	0.00	3,341.66	
MW - 10	10/17/06		0.00	27.87	0.00	3,342.30	
MW - 10	11/21/06		0.00	28.06	0.00	3,342.11	
MW - 10	12/13/06		0.00	28.15	0.00	3,342.02	
MW - 10	01/09/07		0.00	28.41	0.00	3,341.76	
MW - 10	02/14/07		0.00	28.22	0.00	3,341.95	
MW - 10	02/28/07		0.00	28.14	0.00	3,342.03	
MW - 10	03/13/07		0.00	28.20	0.00	3,341.97	
MW - 10	05/11/07		0.00	27.31	0.00	3,342.86	
MW - 10	08/10/07		0.00	27.76	0.00	3,342.41	
MW - 10	08/20/07		0.00	27.88	0.00	3,342.29	
MW - 10	11/16/07		0.00	28.20	0.00	3,341.97	
MW-11	05/12/03	3,373.96	0.00	37.72	0.00	3,336.24	
MW-11	08/20/03		0.00	38.70	0.00	3,335.26	
MW-11	11/10/03		0.00	39.21	0.00	3,334.75	
MW-11	02/17/04		0.00	39.31	0.00	3,334.65	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW-11	05/06/04		0.00	34.82	0.00	3,339.14	
MW-11	08/18/04		0.00	34.05	0.00	3,339.91	
MW-11	09/10/04		0.00	33.56	0.00	3,340.40	
MW-11	09/21/04		0.00	33.72	0.00	3,340.24	
MW-11	10/05/04		0.00	31.25	0.00	3,342.71	
MW-11	10/19/04		0.00	29.25	0.00	3,344.71	
MW-11	11/02/04		0.00	29.02	0.00	3,344.94	
MW-11	11/15/04		0.00	29.21	0.00	3,344.75	
MW-11	12/06/04		0.00	29.31	0.00	3,344.65	
MW-11	12/21/04		0.00	29.25	0.00	3,344.71	
MW-11	01/03/05		0.00	29.59	0.00	3,344.37	
MW-11	01/18/05		0.00	29.83	0.00	3,344.13	
MW-11	02/01/05		0.00	29.98	0.00	3,343.98	
MW-11	02/22/05		0.00	30.50	0.00	3,343.46	
MW-11	04/21/05		0.00	30.75	0.00	3,343.21	
MW-11	05/05/05		0.00	29.75	0.00	3,344.21	
MW-11	05/17/05		0.00	30.81	0.00	3,343.15	
MW-11	06/08/05		0.00	31.03	0.00	3,342.93	
MW-11	06/22/05		0.00	31.15	0.00	3,342.81	
MW-11	07/20/05		0.00	31.43	0.00	3,342.53	
MW-11	08/15/05		0.00	31.04	0.00	3,342.92	
MW-11	08/31/05		0.00	30.87	0.00	3,343.09	
MW-11	09/14/05		0.00	30.16	0.00	3,343.80	
MW-11	09/28/05		0.00	31.13	0.00	3,342.83	
MW-11	11/09/05		0.00	31.61	0.00	3,342.35	
MW-11	11/18/05		0.00	31.35	0.00	3,342.61	
MW-11	11/30/05		0.00	31.71	0.00	3,342.25	
MW-11	12/14/05		0.00	31.83	0.00	3,342.13	
MW-11	12/28/05		0.00	31.89	0.00	3,342.07	
MW-11	01/11/06		0.00	31.95	0.00	3,342.01	
MW-11	01/25/06		0.00	32.10	0.00	3,341.86	
MW-11	02/08/06		0.00	32.15	0.00	3,341.81	
MW-11	02/16/06		0.00	31.63	0.00	3,342.33	
MW-11	02/22/06		0.00	32.20	0.00	3,341.76	
MW-11	03/08/06		0.00	32.21	0.00	3,341.75	
MW-11	04/10/06		0.00	31.77	0.00	3,342.19	
MW-11	05/22/06		0.00	31.95	0.00	3,342.01	
MW-11	07/12/06		0.00	32.03	0.00	3,341.93	
MW-11	08/07/06		0.00	32.27	0.00	3,341.69	
MW-11	10/17/06		0.00	31.85	0.00	3,342.11	
MW-11	11/21/06		0.00	31.91	0.00	3,342.05	
MW-11	12/13/06		0.00	31.96	0.00	3,342.00	
MW-11	01/09/07		0.00	32.23	0.00	3,341.73	
MW-11	02/14/07		0.00	32.15	0.00	3,341.81	
MW-11	02/16/07		0.00	32.12	0.00	3,341.84	
MW-11	02/28/07		0.00	32.12	0.00	3,341.84	
MW-11	03/13/07		0.00	32.17	0.00	3,341.79	
MW-11	05/11/07		0.00	31.82	0.00	3,342.14	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW-11	08/10/07		0.00	31.74	0.00	3,342.22	
MW-11	08/20/07		0.00	31.80	0.00	3,342.16	
MW-11	11/16/07		0.00	29.69	0.00	3,344.27	
MW- 12	10/22/02	3,372.41	0.00	33.77	0.00	3,338.64	
MW- 12	11/06/02		0.00	31.84	0.00	3,340.57	
MW- 12	03/18/03		0.00	35.89	0.00	3,336.52	
MW- 12	05/12/03		0.00	36.09	0.00	3,336.32	
MW- 12	08/20/03		0.00	37.17	0.00	3,335.24	
MW- 12	11/10/03		0.00	37.72	0.00	3,334.69	
MW- 12	02/17/04		0.00	37.73	0.00	3,334.68	
MW- 12	05/06/04		0.00	33.08	0.00	3,339.33	
MW- 12	08/18/04		0.00	32.32	0.00	3,340.09	
MW- 12	09/10/04		0.00	32.09	0.00	3,340.32	
MW- 12	09/21/04		0.00	32.24	0.00	3,340.17	
MW- 12	10/05/04		0.00	29.21	0.00	3,343.20	
MW- 12	10/19/04		0.00	27.05	0.00	3,345.36	
MW- 12	11/02/04		0.00	27.09	0.00	3,345.32	
MW- 12	11/15/04		0.00	27.23	0.00	3,345.18	
MW- 12	12/06/04		0.00	27.67	0.00	3,344.74	
MW- 12	12/21/04		0.00	27.64	0.00	3,344.77	
MW- 12	01/03/05		0.00	28.03	0.00	3,344.38	
MW- 12	01/18/05		0.00	28.26	0.00	3,344.15	
MW- 12	02/01/05		0.00	28.46	0.00	3,343.95	
MW- 12	02/22/05		0.00	29.00	0.00	3,343.41	
MW- 12	04/21/05		0.00	29.25	0.00	3,343.16	
MW- 12	05/05/05		0.00	29.29	0.00	3,343.12	
MW- 12	05/17/05		0.00	29.31	0.00	3,343.10	
MW- 12	06/08/05		0.00	29.55	0.00	3,342.86	
MW- 12	06/22/05		0.00	30.74	0.00	3,341.67	
MW- 12	07/20/05		0.00	29.94	0.00	3,342.47	
MW- 12	08/15/05		0.00	29.54	0.00	3,342.87	
MW- 12	08/31/05		0.00	29.41	0.00	3,343.00	
MW- 12	09/14/05		0.00	29.45	0.00	3,342.96	
MW- 12	09/28/05		0.00	29.66	0.00	3,342.75	
MW- 12	11/09/05		0.00	30.14	0.00	3,342.27	
MW- 12	11/18/05		0.00	29.88	0.00	3,342.53	
MW- 12	11/30/05		0.00	30.22	0.00	3,342.19	
MW- 12	12/14/05		0.00	30.37	0.00	3,342.04	
MW- 12	12/28/05		0.00	30.41	0.00	3,342.00	
MW- 12	01/11/06		0.00	30.45	0.00	3,341.96	
MW- 12	01/25/06		0.00	30.62	0.00	3,341.79	
MW- 12	02/08/06		0.00	30.67	0.00	3,341.74	
MW- 12	02/16/06		0.00	30.13	0.00	3,342.28	
MW- 12	02/22/06		0.00	30.71	0.00	3,341.70	
MW- 12	03/08/06		0.00	30.74	0.00	3,341.67	
MW- 12	04/10/06		0.00	29.30	0.00	3,343.11	
MW- 12	05/22/06		0.00	30.47	0.00	3,341.94	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW- 12	07/12/06		0.00	30.55	0.00	3,341.86	
MW- 12	08/07/06		0.00	30.92	0.00	3,341.49	
MW- 12	10/17/06		0.00	30.35	0.00	3,342.06	
MW- 12	11/21/06		0.00	30.52	0.00	3,341.89	
MW- 12	12/13/06		0.00	27.02	0.00	3,345.39	
MW- 12	01/09/07		0.00	30.71	0.00	3,341.70	
MW- 12	02/14/07		0.00	30.63	0.00	3,341.78	
MW- 12	02/16/07		0.00	30.56	0.00	3,341.85	
MW- 12	03/13/07		0.00	27.11	0.00	3,345.30	
MW- 12	05/11/07		0.00	30.20	0.00	3,342.21	
MW- 12	08/10/07		0.00	26.67	0.00	3,345.74	
MW- 12	08/20/07		0.00	26.33	0.00	3,346.08	
MW- 12	11/16/07		0.00	33.32	0.00	3,339.09	
MW- 13	10/22/02	3,368.91	0.00	31.30	0.00	3,337.61	
MW- 13	11/06/02		0.00	31.60	0.00	3,337.31	
MW- 13	02/27/03		0.00	32.31	0.00	3,336.60	
MW- 13	03/18/03		0.00	32.35	0.00	3,336.56	
MW- 13	05/12/03		0.00	32.60	0.00	3,336.31	
MW- 13	08/20/03		0.00	33.62	0.00	3,335.29	
MW- 13	11/10/03		0.00	34.20	0.00	3,334.71	
MW- 13	02/17/04		0.00	34.18	0.00	3,334.73	
MW- 13	05/06/04		0.00	29.29	0.00	3,339.62	
MW- 13	08/18/04		0.00	28.51	0.00	3,340.40	
MW- 13	09/10/04		0.00	28.23	0.00	3,340.68	
MW- 13	09/21/04		0.00	28.54	0.00	3,340.37	
MW- 13	10/05/04		0.00	24.88	0.00	3,344.03	
MW- 13	10/19/04		0.00	22.96	0.00	3,345.95	
MW- 13	11/02/04		0.00	23.26	0.00	3,345.65	
MW- 13	11/15/04		0.00	23.61	0.00	3,345.30	
MW- 13	12/06/04		0.00	24.05	0.00	3,344.86	
MW- 13	12/21/04		0.00	24.03	0.00	3,344.88	
MW- 13	01/03/05		0.00	24.41	0.00	3,344.50	
MW- 13	01/18/05		0.00	24.71	0.00	3,344.20	
MW- 13	02/01/05		0.00	24.90	0.00	3,344.01	
MW- 13	02/22/05		0.00	25.42	0.00	3,343.49	
MW- 13	04/21/05		0.00	25.73	0.00	3,343.18	
MW- 13	05/05/05		0.00	25.82	0.00	3,343.09	
MW- 13	05/17/05		0.00	25.81	0.00	3,343.10	
MW- 13	06/08/05		0.00	26.03	0.00	3,342.88	
MW- 13	06/22/05		0.00	26.18	0.00	3,342.73	
MW- 13	07/20/05		0.00	26.44	0.00	3,342.47	
MW- 13	08/15/05		0.00	26.00	0.00	3,342.91	
MW- 13	08/31/05		0.00	25.85	0.00	3,343.06	
MW- 13	09/14/05		0.00	25.92	0.00	3,342.99	
MW- 13	09/28/05		0.00	26.14	0.00	3,342.77	
MW- 13	11/09/05		0.00	26.63	0.00	3,342.28	
MW- 13	11/18/05		0.00	26.35	0.00	3,342.56	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW- 13	11/30/05		0.00	26.73	0.00	3,342.18	
MW- 13	12/14/05		0.00	26.86	0.00	3,342.05	
MW- 13	12/28/05		0.00	26.92	0.00	3,341.99	
MW- 13	01/11/06		0.00	26.95	0.00	3,341.96	
MW- 13	01/25/06		0.00	27.13	0.00	3,341.78	
MW- 13	02/08/06		0.00	27.16	0.00	3,341.75	
MW- 13	02/16/06		0.00	26.63	0.00	3,342.28	
MW- 13	02/22/06		0.00	27.20	0.00	3,341.71	
MW- 13	03/08/06		0.00	27.19	0.00	3,341.72	
MW- 13	04/10/06		0.00	26.81	0.00	3,342.10	
MW- 13	05/22/06		0.00	26.97	0.00	3,341.94	
MW- 13	07/12/06		0.00	27.02	0.00	3,341.89	
MW- 13	08/07/06		0.00	32.35	0.00	3,336.56	
MW- 13	10/17/06		0.00	26.71	0.00	3,342.20	
MW- 13	11/21/06		0.00	32.02	0.00	3,336.89	
MW- 13	12/13/06		0.00	27.02	0.00	3,341.89	
MW- 13	01/09/07		0.00	27.42	0.00	3,338.20	
MW- 13	02/14/07		0.00	27.10	0.00	3,338.28	
MW- 13	02/16/07		0.00	27.08	0.00	3,338.35	
MW- 13	03/13/07		0.00	30.63	0.00	3,341.80	
MW- 13	05/11/07		0.00	26.41	0.00	3,338.71	
MW- 13	08/10/07		0.00	30.17	0.00	3,342.24	
MW- 13	08/20/07		0.00	30.28	0.00	3,342.58	
MW- 13	11/16/07		0.00	27.11	0.00	3,335.59	
MW- 14	10/22/02	3,371.54	0.00	36.56	0.00	3,334.98	
MW- 14	11/06/02		0.00	34.68	0.00	3,336.86	
MW- 14	02/27/03		0.00	35.09	0.00	3,336.45	
MW- 14	03/18/03		0.00	35.14	0.00	3,336.40	
MW- 14	05/12/03		0.00	35.32	0.00	3,336.22	
MW- 14	08/20/03		0.00	36.42	0.00	3,335.12	
MW- 14	11/10/03		0.00	36.97	0.00	3,334.57	
MW- 14	02/17/04		0.00	37.00	0.00	3,334.54	
MW- 14	05/06/04		0.00	32.17	0.00	3,339.37	
MW- 14	08/18/04		0.00	31.42	0.00	3,340.12	
MW- 14	09/10/04		0.00	31.05	0.00	3,340.49	
MW- 14	09/21/04		0.00	31.31	0.00	3,340.23	
MW- 14	10/05/04		0.00	28.16	0.00	3,343.38	
MW- 14	10/19/04		0.00	26.10	0.00	3,345.44	
MW- 14	11/02/04		0.00	26.20	0.00	3,345.34	
MW- 14	11/15/04		0.00	26.46	0.00	3,345.08	
MW- 14	12/06/04		0.00	26.82	0.00	3,344.72	
MW- 14	12/21/04		0.00	26.79	0.00	3,344.75	
MW- 14	01/03/05		0.00	27.17	0.00	3,344.37	
MW- 14	01/18/05		0.00	27.49	0.00	3,344.05	
MW- 14	02/01/05		0.00	27.65	0.00	3,343.89	
MW- 14	02/22/05		0.00	28.20	0.00	3,343.34	
MW- 14	04/21/05		0.00	28.50	0.00	3,343.04	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW- 14	05/05/05		0.00	28.60	0.00	3,342.94	
MW- 14	05/17/05		0.00	28.60	0.00	3,342.94	
MW- 14	06/08/05		0.00	28.83	0.00	3,342.71	
MW- 14	06/22/05		0.00	28.91	0.00	3,342.63	
MW- 14	07/20/05		0.00	29.17	0.00	3,342.37	
MW- 14	08/15/05		0.00	28.80	0.00	3,342.74	
MW- 14	08/31/05		0.00	26.80	0.00	3,344.74	
MW- 14	09/14/05		0.00	28.69	0.00	3,342.85	
MW- 14	09/28/05		0.00	28.91	0.00	3,342.63	
MW- 14	11/09/05		0.00	29.39	0.00	3,342.15	
MW- 14	11/18/05		0.00	29.12	0.00	3,342.42	
MW- 14	11/30/05		0.00	29.48	0.00	3,342.06	
MW- 14	12/14/05		0.00	29.60	0.00	3,341.94	
MW- 14	12/28/05		0.00	29.63	0.00	3,341.91	
MW- 14	01/11/06		0.00	29.71	0.00	3,341.83	
MW- 14	01/25/06		0.00	29.85	0.00	3,341.69	
MW- 14	02/08/06		0.00	29.91	0.00	3,341.63	
MW- 14	02/16/06		0.00	29.41	0.00	3,342.13	
MW- 14	02/22/06		0.00	29.96	0.00	3,341.58	
MW- 14	03/08/06		0.00	29.96	0.00	3,341.58	
MW- 14	04/10/06		0.00	29.58	0.00	3,341.96	
MW- 14	05/22/06		0.00	29.76	0.00	3,341.78	
MW- 14	07/12/06		0.00	29.79	0.00	3,341.75	
MW- 14	08/07/06		0.00	30.22	0.00	3,341.32	
MW- 14	10/17/06		0.00	29.53	0.00	3,342.01	
MW- 14	11/21/06		0.00	29.71	0.00	3,341.83	
MW- 14	12/13/06		0.00	29.87	0.00	3,341.67	
MW- 14	01/09/07		0.00	29.97	0.00	3,341.57	
MW- 14	02/14/06		0.00	31.91	0.00	3,339.63	
MW- 14	02/16/07		0.00	29.83	0.00	3,341.71	
MW- 14	02/28/07		0.00	29.85	0.00	3,341.69	
MW- 14	03/13/07		0.00	29.90	0.00	3,341.64	
MW- 14	05/11/07		0.00	29.47	0.00	3,342.07	
MW- 14	08/10/07		0.00	29.43	0.00	3,342.11	
MW- 14	08/20/07		0.00	29.57	0.00	3,341.97	
MW- 14	11/16/07		0.00	29.94	0.00	3,341.60	
MW- 15	10/22/02	3,377.64	0.00	42.74	0.00	3,334.90	
MW- 15	11/06/02		0.00	41.32	0.00	3,336.32	
MW- 15	02/27/03		0.00	41.29	0.00	3,336.35	
MW- 15	03/18/03		0.00	41.26	0.00	3,336.38	
MW- 15	05/12/03		0.00	41.52	0.00	3,336.12	
MW- 15	08/20/03		0.00	42.54	0.00	3,335.10	
MW- 15	11/10/03		0.00	43.12	0.00	3,334.52	
MW- 15	03/10/04		0.00	43.18	0.00	3,334.46	
MW- 15	05/06/04		0.00	38.79	0.00	3,338.85	
MW- 15	08/18/04		0.00	37.93	0.00	3,339.71	
MW- 15	09/10/04		0.00	37.45	0.00	3,340.19	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
MW- 15	09/21/04		0.00	37.67	0.00	3,339.97	
MW- 15	10/05/04		0.00	35.37	0.00	3,342.27	
MW- 15	10/19/04		0.00	33.50	0.00	3,344.14	
MW- 15	11/02/04		0.00	33.10	0.00	3,344.54	
MW- 15	11/15/04		0.00	33.12	0.00	3,344.52	
MW- 15	12/06/04		0.00	33.26	0.00	3,344.38	
MW- 15	12/21/04		0.00	33.21	0.00	3,344.43	
MW- 15	01/03/05		0.00	33.49	0.00	3,344.15	
MW- 15	01/18/05		0.00	33.75	0.00	3,343.89	
MW- 15	02/01/05		0.00	33.88	0.00	3,343.76	
MW- 15	02/22/05		0.00	34.35	0.00	3,343.29	
MW- 15	04/21/05		0.00	34.61	0.00	3,343.03	
MW- 15	05/05/05		0.00	34.65	0.00	3,342.99	
MW- 15	05/17/05		0.00	34.65	0.00	3,342.99	
MW- 15	06/08/05		0.00	34.87	0.00	3,342.77	
MW- 15	06/22/05		0.00	35.02	0.00	3,342.62	
MW- 15	07/20/05		0.00	35.25	0.00	3,342.39	
MW- 15	08/15/05		0.00	34.95	0.00	3,342.69	
MW- 15	08/31/05		0.00	34.83	0.00	3,342.81	
MW- 15	09/14/05		0.00	34.83	0.00	3,342.81	
MW- 15	09/28/05		0.00	35.02	0.00	3,342.62	
MW- 15	11/09/05		0.00	35.41	0.00	3,342.23	
MW- 15	11/18/05		0.00	35.19	0.00	3,342.45	
MW- 15	11/30/05		0.00	35.52	0.00	3,342.12	
MW- 15	12/14/05		0.00	35.66	0.00	3,341.98	
MW- 15	12/28/05		0.00	35.73	0.00	3,341.91	
MW- 15	01/11/06		0.00	35.79	0.00	3,341.85	
MW- 15	01/25/06		0.00	35.97	0.00	3,341.67	
MW- 15	02/08/06		0.00	35.98	0.00	3,341.66	
MW- 15	02/16/06		0.00	35.44	0.00	3,342.20	
MW- 15	02/22/06		0.00	36.01	0.00	3,341.63	
MW- 15	03/08/06		0.00	36.13	0.00	3,341.51	
MW- 15	04/10/06		0.00	35.62	0.00	3,342.02	
MW- 15	05/22/06		0.00	35.78	0.00	3,341.86	
MW- 15	07/12/06		0.00	35.88	0.00	3,341.76	
MW- 15	08/07/06		0.00	36.17	0.00	3,341.47	
MW- 15	10/17/06		0.00	35.68	0.00	3,341.96	
MW- 15	11/21/06		0.00	29.71	0.00	3,347.93	
MW- 15	12/13/06		0.00	35.95	0.00	3,341.69	
MW- 15	01/09/07		0.00	36.05	0.00	3,341.59	
MW- 15	02/14/07		0.00	36.02	0.00	3,341.62	
MW- 15	02/16/07		0.00	35.97	0.00	3,341.67	
MW- 15	02/28/07		0.00	35.98	0.00	3,341.66	
MW- 15	03/13/07		0.00	36.05	0.00	3,341.59	
MW- 15	05/11/07		0.00	35.77	0.00	3,341.87	
MW- 15	08/10/07		0.00	35.60	0.00	3,342.04	
MW- 15	08/20/07		0.00	35.70	0.00	3,341.94	
MW- 15	11/16/07		0.00	36.09	0.00	3,341.55	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
TMW-1	08/15/02	3,357.33	20.18	25.22	5.04	3,336.39	
TMW-1	08/23/02		20.53	25.04	4.51	3,336.12	
TMW-1	08/27/02		20.61	24.97	4.36	3,336.07	
TMW-1	08/29/02		20.68	24.79	4.11	3,336.03	
TMW-1	09/04/02		20.86	24.87	4.01	3,335.87	
TMW-1	10/02/02		21.28	24.95	3.67	3,335.50	
TMW-1	10/03/02		20.18	25.24	5.06	3,336.39	
TMW-1	10/08/02		21.49	25.02	3.53	3,335.31	
TMW-1	10/15/02		20.24	25.23	4.99	3,336.34	
TMW-1	12/27/02		19.57	23.72	4.15	3,337.14	
TMW-1	01/07/03		19.71	23.79	4.08	3,337.01	
TMW-1	01/27/03		19.98	23.42	3.44	3,336.83	
TMW-1	02/27/03		20.07	24.16	4.09	3,336.65	
TMW-1	03/06/03		20.12	24.17	4.05	3,336.60	
TMW-1	03/18/03		20.09	24.24	4.15	3,336.62	
TMW-1	03/20/03		20.21	24.09	3.88	3,336.54	
TMW-1	03/27/03		20.15	24.18	4.03	3,336.58	
TMW-1	04/16/03		20.33	24.24	3.91	3,336.41	
TMW-1	05/12/03		20.59	23.13	2.54	3,336.36	
TMW-1	05/21/03		20.48	24.27	3.79	3,336.28	
TMW-1	06/03/03		20.52	24.39	3.87	3,336.23	
TMW-1	07/31/03		21.22	24.84	3.62	3,335.57	
TMW-1	08/06/03		21.51	25.10	3.59	3,335.28	
TMW-1	08/20/03		21.78	25.28	3.50	3,335.03	
TMW-1	10/02/03		22.00	25.35	3.35	3,334.83	
TMW-1	10/07/03		21.91	25.23	3.32	3,334.92	
TMW-1	10/16/03		22.29	25.64	3.35	3,334.54	
TMW-1	10/22/03		22.31	25.66	3.35	3,334.52	
TMW-1	10/28/03		22.35	25.72	3.37	3,334.47	
TMW-1	11/06/03		22.46	25.77	3.31	3,334.37	
TMW-1	11/10/03		22.46	25.81	3.35	3,334.37	
TMW-1	11/18/03		22.21	25.51	3.30	3,334.63	
TMW-1	12/04/03		22.22	25.51	3.29	3,334.62	
TMW-1	12/17/03		22.22	25.50	3.28	3,334.62	
TMW-1	12/22/03		21.84	25.19	3.35	3,334.99	
TMW-1	01/02/04		22.07	25.31	3.24	3,334.77	
TMW-1	01/19/04		22.55	25.81	3.29	3,334.32	
TMW-1	01/27/04		22.59	25.96	3.37	3,334.23	
TMW-1	02/02/04		22.20	26.04	3.34	3,334.13	
TMW-1	02/17/04		22.10	24.33	2.23	3,334.90	
TMW-1	02/25/04		22.11	24.30	2.19	3,334.89	
TMW-1	03/01/04		22.12	24.27	2.15	3,334.89	
TMW-1	03/10/04		22.11	24.29	2.18	3,334.89	
TMW-1	03/15/04		22.26	25.23	2.97	3,334.62	
TMW-1	03/17/04		20.60	25.73	5.13	3,335.96	
TMW-1	03/22/04		22.67	25.58	2.91	3,334.22	
TMW-1	03/24/04		22.13	24.96	2.83	3,334.78	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
TMW-1	03/29/04		22.61	25.67	3.06	3,334.26	
TMW-1	03/31/04		22.60	25.62	3.02	3,334.28	
TMW-1	05/06/04		17.52	22.97	5.45	3,338.99	
TMW-1	08/18/04		15.44	20.72	5.28	3,341.10	
TMW-1	09/21/04		16.31	20.00	3.69	3,340.47	
TMW-1	10/19/04		10.69	15.95	5.26	3,345.85	
TMW-1	11/02/04		11.05	14.62	3.57	3,345.74	
TMW-1	11/15/04		11.43	15.92	4.49	3,345.23	
TMW-1	12/06/04		11.87	14.65	2.78	3,345.04	
TMW-1	12/21/04		11.41	15.40	3.99	3,345.32	
TMW-1	01/03/05		12.68	13.54	0.86	3,344.52	
TMW-1	01/18/05		12.90	13.31	0.41	3,344.37	
TMW-1	02/01/05		13.17	13.46	0.29	3,344.12	
TMW-1	02/22/05		12.97	13.40	0.43	3,344.30	
TMW-1	05/05/05		13.89	14.96	1.07	3,343.28	
TMW-1	05/17/05		13.92	14.95	1.03	3,343.26	
TMW-1	06/08/05		14.30	14.59	0.29	3,342.99	
TMW-1	06/22/05		14.47	14.57	0.10	3,342.85	
TMW-1	07/20/05		14.68	14.96	0.28	3,342.61	
TMW-1	08/15/05		14.22	14.24	0.02	3,343.11	
TMW-1	08/31/05		14.05	14.15	0.10	3,343.27	
TMW-1	09/14/05		14.09	14.21	0.12	3,343.22	
TMW-1	09/28/05		14.28	14.36	0.08	3,343.04	
TMW-1	11/09/05		14.75	14.88	0.13	3,342.56	
TMW-1	11/18/05		14.67	14.69	0.02	3,342.66	
TMW-1	11/30/05		14.91	14.96	0.05	3,342.41	
TMW-1	12/14/05		0.00	15.11	0.00	3,342.22	
TMW-1	12/28/05		0.00	15.22	0.00	3,342.11	
TMW-1	01/11/06		0.00	15.15	0.00	3,342.18	
TMW-1	01/25/06		0.00	15.31	0.00	3,342.02	
TMW-1	02/08/06		0.00	15.35	0.00	3,341.98	
TMW-1	02/16/06		0.00	15.06	0.00	3,342.27	
TMW-1	02/22/06		0.00	15.33	0.00	3,342.00	
TMW-1	03/08/06		0.00	15.34	0.00	3,341.99	
TMW-1	04/10/06		0.00	15.24	0.00	3,342.09	
TMW-1	05/22/06		0.00	15.47	0.00	3,341.86	
TMW-1	07/12/06		15.54	15.61	0.07	3,341.78	
TMW-1	02/14/07		15.33	15.85	0.52	3,341.92	
TMW-1	02/16/07		15.34	15.46	0.12	3,341.97	
TMW-1	02/28/07		15.32	15.48	0.16	3,341.99	30.00
TMW-1	03/13/07		15.38	15.74	0.36	3,341.90	25.00
TMW-1	03/23/07						0.25
TMW-1	04/09/07		15.53	16.00	0.47	3,341.73	
TMW-1	05/11/07		14.84	14.88	0.04	3,342.48	
TMW-1	05/16/07						50.00
TMW-1	05/29/07		14.25	14.38	0.13	3,343.06	
TMW-1	06/06/07		0.00	14.45	0.00	3,342.88	0.10
TMW-1	06/21/07		0.00	14.53	0.00	3,342.80	
TMW-1	8/20/2007 ⁽¹⁾	3372.24	29.95	30.20	0.25	3,342.25	

Table 1

GROUNDWATER ELEVATION AND PSH DATA
Livingston Ridge to Hugh - P. Sims Pipeline Leak
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All elevations are measured in feet above mean sea level

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION	PSH PURGED IN GALLONS
TMW-1	09/07/07		30.09	30.42	0.33	3,342.10	30.00
TMW-1	09/19/07		30.18	30.30	0.12	3,342.04	
TMW-1	10/01/07		0.00	30.62	0.00	3,341.62	
TMW-1	10/15/07		0.00	30.53	0.00	3,341.71	
TMW-1	11/02/07		0.00	30.55	0.00	3,341.69	
TMW-1	11/16/07		0.00	30.66	0.00	3,341.58	

Elevations are based on the North American Vertical Datum of 1929.

PSH - Phase Separated Hydrocarbons

ND - PSH not detected

Note: Heavy rains April 3, 4 & 5, 2004;

* - denotes excavation flooded 3 weeks

(1) Well extended to ground surface after backfilling the excavation, resurveyed on September 7, 2007.

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-1	11/02/04	0.725	0.321	0.995	1.68	0.537
MW-1	03/22/05	Not Sampled Due to Sample Reduction				
MW-1	05/17/05	Not Sampled Due to Sample Reduction				
MW-1	08/15/05	Not Sampled Due to Sample Reduction				
MW-1	11/18/05	0.104	<0.001	0.0328	0.0347	0.00736
MW-1	02/16/06	1.08	<0.001	0.4	0.37	0.0838
MW-1	05/22/06	1.06	<0.005	1.1	1.07	0.0732
MW-1	08/07/06	1.15	<0.001	0.323	0.336	0.0276
MW-1	11/21/06	Not Sampled				
MW-1	02/28/07	0.714	<0.02	0.439	0.498	
MW-1	05/11/07	0.966	0.0309	0.288	0.396	0.0397
MW-1	08/10/07	1.031	<0.05	0.167	0.1945	<0.05
MW-1	11/15/07	Not Sampled Due to the Presence of PSH				
MW-2	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	08/18/04	Well placed in annual sampling program				
MW-2	03/22/05	Not Sampled Due to Sample Reduction				
MW-2	05/17/05	Not Sampled Due to Sample Reduction				
MW-2	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	11/18/05	Not Sampled Due to Sample Reduction				
MW-2	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	05/22/06	Not Sampled				
MW-2	08/07/06	Not Sampled				
MW-2	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-2	05/11/07	Not Sampled Due to Sample Reduction				
MW-2	08/10/07	Not Sampled Due to Sample Reduction				
MW-2	11/15/07	Not Sampled Due to Sample Reduction				
MW-3	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	11/10/03	0.005	<0.001	<0.001	<0.002	<0.001
MW-3	11/25/03	0.001	<0.001	<0.001	<0.002	<0.001
MW-3	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-3	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-3	08/18/04	Well placed in annual sampling program				
MW-3	03/22/05	Not Sampled Due to Sample Reduction				
MW-3	05/17/05	Not Sampled Due to Sample Reduction				
MW-3	08/15/05	0.00976	0.00189	<0.001	<0.002	<0.001
MW-3	11/18/05	Not Sampled Due to Sample Reduction				
MW-3	02/16/06	0.00816	<0.001	<0.001	<0.002	<0.001
MW-3	05/22/06	Not Sampled				
MW-3	08/07/06	Not Sampled				
MW-3	11/21/06	Not Sampled				
MW-3	02/28/07	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	05/11/07	Not Sampled Due to Sample Reduction				
MW-3	08/10/07	Not Sampled Due to Sample Reduction				
MW-3	11/15/07	Not Sampled Due to Sample Reduction				

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-4	09/30/02	2.43	0.74	0.466	0.946	0.284
MW-4	11/06/02	3.96	0.015	0.174	0.58	0.108
MW-4	02/27/03	Not Sampled Due to the Presence of PSH				
MW-4	05/12/03	1.88	0.004	0.723	0.548	0.056
MW-4	08/20/03	Not Sampled Due to the Presence of PSH				
MW-4	11/10/03	0.408	0.001	0.011	0.011	0.001
MW-4	02/17/04	0.069	0.001	0.003	0.004	0.001
MW-4	05/06/04	0.549	0.213	0.394	0.296	0.194
MW-4	08/18/04	Not Sampled Due to the Presence of PSH				
MW-4	11/02/04	0.745	<0.001	0.00856	0.00648	0.00364
MW-4	03/22/05	Not Sampled Due to Sample Reduction				
MW-4	05/17/05	Not Sampled Due to Sample Reduction				
MW-4	08/15/05	0.00375	<0.001	0.02	0.0412	0.00844
MW-4	11/18/05	0.103	<0.001	0.0909	0.0727	<0.001
MW-4	02/16/06	0.0282	<0.001	0.122	0.11	<0.001
MW-4	05/22/06	0.0854	<0.001	0.355	0.224	<0.001
MW-4	08/07/06	0.0331	<0.001	0.139	0.112	<0.001
MW-4	11/21/06	0.0361	<0.005	0.252	0.105	<0.005
MW-4	02/28/07	0.0221	<0.001	0.0142	0.116	
MW-4	05/11/07	0.039	0.00629	0.336	0.187	0.00725
MW-4	08/10/07	0.0171	<0.01	0.3113	0.1332	<0.01
MW-4	11/15/07	0.0108	<0.002	<0.001	<0.002	0.0031
MW-5	09/30/02	Not Sampled Due to the Presence of PSH				
MW-5	11/06/02	Not Sampled Due to the Presence of PSH				
MW-5	02/27/03	Not Sampled Due to the Presence of PSH				
MW-5	05/12/03	0.226	0.01	0.399	0.704	0.567
MW-5	08/20/03	Not Sampled Due to the Presence of PSH				
MW-5	11/10/03	0.511	<0.001	1.07	0.625	0.02
MW-5	02/17/04	0.445	0.048	3.33	3.01	0.153
MW-5	05/06/04	0.0744	0.0207	0.222	0.273	0.148
MW-5	08/24/04	0.156	0.00385	0.232	0.161	0.124
MW-5	11/02/04	0.371	<0.001	0.0209	0.0407	0.00102
MW-5	03/22/05	Not Sampled Due to Sample Reduction				
MW-5	05/17/05	Not Sampled Due to Sample Reduction				
MW-5	08/15/05	Not Sampled Due to Sample Reduction				
MW-5	11/18/05	0.0886	<0.001	0.0448	0.0394	0.018
MW-5	02/16/06	0.0108	<0.001	0.00861	0.002	0.00202
MW-5	05/22/06	<0.001	<0.001	0.00152	<0.002	<0.001
MW-5	08/07/06	0.0386	<0.001	0.0619	0.0669	0.0204
MW-5	11/21/06	Not Sampled				
MW-5	02/28/07	0.36	<0.005	0.412	5.04	
MW-5	05/11/07	0.397	0.0141	0.387	0.291	0.196
MW-5	08/10/07	0.2765	<0.025	0.2858	0.2025	0.1315
MW-5	11/15/07	0.0039	<0.002	<0.001	<0.002	<0.001

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-6	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	05/06/04	0.00426	<0.001	<0.001	0.00254	0.0013
MW-6	08/18/04	Well placed in annual sampling program				
MW-6	11/02/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	03/22/05	Not Sampled Due to Sample Reduction				
MW-6	05/17/05	Not Sampled Due to Sample Reduction				
MW-6	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	11/18/05	Not Sampled Due to Sample Reduction				
MW-6	02/16/06	0.00133	<0.001	0.00298	<0.002	<0.001
MW-6	05/22/06	Not Sampled				
MW-6	08/07/06	Not Sampled				
MW-6	11/21/06	Not Sampled				
MW-6	02/28/07	<0.001	<0.001	<0.001	0.0027	
MW-6	05/11/07	0.0007 (J)	0.000698 (J)	0.00211	0.000687 (J)	0.00672
MW-6	08/10/07	0.0012	<0.001	0.0059	<0.002	0.0014
MW-6	11/15/07	<0.001	<0.002	0.001	<0.002	<0.001
MW-7	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-7	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-7	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-7	08/18/04	Well placed in annual sampling program				
MW-7	03/22/05	Not Sampled Due to Sample Reduction				
MW-7	05/17/05	Not Sampled Due to Sample Reduction				
MW-7	08/15/05	0.0059	<0.001	<0.001	<0.002	<0.001
MW-7	11/18/05	Not Sampled Due to Sample Reduction				
MW-7	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-7	05/22/06	Not Sampled				
MW-7	08/07/06	Not Sampled				
MW-7	11/21/06	Not Sampled				
MW-7	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-7	05/11/07	Not Sampled Due to Sample Reduction				
MW-7	08/10/07	Not Sampled Due to Sample Reduction				
MW-7	11/15/07	Not Sampled Due to Sample Reduction				

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-8	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	08/18/04	Well placed in annual sampling program				
MW-8	03/22/05	Not Sampled Due to Sample Reduction				
MW-8	05/17/05	Not Sampled Due to Sample Reduction				
MW-8	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	11/18/05	Not Sampled Due to Sample Reduction				
MW-8	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	05/22/06	Not Sampled				
MW-8	08/07/06	Not Sampled				
MW-8	11/21/06	Not Sampled				
MW-8	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-8	05/11/07	Not Sampled Due to Sample Reduction				
MW-8	08/10/07	Not Sampled Due to Sample Reduction				
MW-8	11/15/07	Not Sampled Due to Sample Reduction				
MW-9	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	02/17/04	0.003	<0.001	<0.001	<0.002	<0.001
MW-9	05/06/04	0.00267	<0.001	<0.001	<0.002	<0.001
MW-9	08/18/04	Well placed in annual sampling program				
MW-9	11/02/04	0.136	<0.001	<0.001	0.0116	0.00951
MW-9	03/22/05	0.0146	<0.001	<0.001	<0.002	<0.001
MW-9	05/17/05	0.0036	<0.001	<0.001	<0.002	<0.001
MW-9	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	11/18/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	05/22/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	08/07/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	11/21/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-9	05/11/07	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	08/10/07	<0.001	<0.001	<0.001	<0.002	<0.001
MW-9	11/15/07	<0.001	<0.002	<0.001	<0.002	<0.001

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-10	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-10	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-10	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-10	08/18/04	Well placed in annual sampling program				
MW-10	03/22/05	Not Sampled Due to Sample Reduction				
MW-10	05/17/05	Not Sampled Due to Sample Reduction				
MW-10	08/15/05	0.0251	0.0106	0.00197	0.00231	0.00102
MW-10	11/18/05	Not Sampled Due to Sample Reduction				
MW-10	02/16/06	0.0361	<0.001	0.00319	<0.002	<0.001
MW-10	05/22/06	0.151	<0.001	0.00279	<0.002	<0.001
MW-10	08/07/06	0.0247	<0.001	<0.001	<0.002	<0.001
MW-10	11/21/06	0.00557	<0.001	<0.001	<0.002	<0.001
MW-10	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-10	05/11/07	0.00145	<0.001	0.000361 (J)	<0.001	<0.001
MW-10	08/10/07	0.002	<0.001	0.0028	<0.002	<0.001
MW-10	11/15/07	0.004	<0.002	<0.001	<0.002	<0.001
MW-11	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-11	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-11	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-11	08/20/03	0.147	<0.001	0.069	0.069	0.033
MW-11	11/10/03	0.526	<0.001	<0.001	0.08	0.047
MW-11	02/17/04	0.103	<0.001	<0.001	0.013	0.007
MW-11	05/06/04	2.05	<0.005	0.253	0.137	0.119
MW-11	08/18/04	0.0973	<0.001	<0.001	0.00263	0.00137
MW-11	11/02/04	0.087	<0.001	0.00163	<0.002	<0.001
MW-11	03/22/05	0.0246	<0.001	0.00163	<0.002	<0.001
MW-11	05/17/05	0.0263	<0.001	0.00353	<0.002	<0.001
MW-11	08/15/05	0.0127	<0.001	<0.001	<0.002	<0.001
MW-11	11/18/05	0.00922	<0.001	0.00115	<0.002	<0.001
MW-11	02/16/06	0.00283	<0.001	<0.001	<0.002	<0.001
MW-11	05/22/06	0.00173	<0.001	<0.001	<0.002	<0.001
MW-11	08/07/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-11	11/21/06	0.00166	<0.001	<0.001	<0.002	<0.001
MW-11	02/28/07	<0.001	<0.001	<0.001	0.0039	
MW-11	05/11/07	0.00348	0.00089 (J)	0.000537 (J)	<0.001	0.000277 (J)
MW-11	08/10/07	<0.001	<0.001	<0.001	<0.002	0.0011
MW-11	11/15/07	0.0021	<0.002	0.0014	0.0022	0.0076

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-12	11/06/02	2.3	0.012	0.005	0.292	0.092
MW-12	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-12	05/12/03	0.24	<0.001	<0.001	0.008	0.015
MW-12	08/20/03	0.257	<0.001	<0.001	0.072	0.013
MW-12	11/10/03	0.544	<0.001	<0.001	<0.002	0.01
MW-12	02/17/04	1.21	<0.001	<0.001	0.009	0.002
MW-12	05/06/04	1.17	<0.002	0.0659	0.117	0.0304
MW-12	08/18/04	0.0612	<0.001	0.0222	<0.001	<0.001
MW-12	11/02/04	0.0322	<0.001	0.00253	<0.002	<0.001
MW-12	03/22/05	0.00545	<0.001	0.00366	<0.002	<0.001
MW-12	05/17/05	0.00103	<0.001	<0.001	<0.002	<0.001
MW-12	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	11/18/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	05/22/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	08/07/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	11/21/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-12	02/28/07	<0.001	<0.001	<0.001	0.0031	
MW-12	05/11/07	0.00205	0.000858 (J)	0.000546 (J)	<0.001	0.000378 (J)
MW-12	08/10/07	<0.005	<0.005	<0.005	<0.01	<0.005
MW-12	11/15/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-13	11/06/02	0.08	<0.001	<0.001	0.002	0.001
MW-13	02/27/03	2.14	0.001	0.095	0.711	0.111
MW-13	05/12/03	1.65	0.001	0.202	0.069	0.17
MW-13	08/20/03	1.71	<0.001	0.138	0.015	0.511
MW-13	11/10/03	1.55	<0.001	0.084	0.003	0.002
MW-13	02/17/04	0.043	<0.001	0.015	0.003	<0.001
MW-13	05/06/04	0.0873	<0.001	<0.001	0.00274	0.00242
MW-13	08/18/04	0.0903	<0.001	0.00982	<0.002	<0.001
MW-13	11/02/04	0.233	<0.001	0.00348	0.00464	0.0038
MW-13	03/22/05	0.18	<0.001	0.00239	<0.002	<0.001
MW-13	05/17/05	0.0758	<0.001	0.00277	<0.002	<0.001
MW-13	08/15/05	0.00668	<0.001	0.00121	<0.002	<0.001
MW-13	11/18/05	0.00134	<0.001	0.00121	<0.002	<0.001
MW-13	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-13	05/22/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-13	08/07/06	0.0013	<0.001	<0.001	<0.002	<0.001
MW-13	11/21/06	0.00214	<0.001	<0.001	<0.002	<0.001
MW-13	02/28/07	<0.001	0.0022	0.0049	0.112	
MW-13	05/11/07	0.000684 (J)	0.000352 (J)	0.00293	0.000972 (J)	0.00625
MW-13	08/10/07	<0.005	<0.005	<0.005	<0.01	0.0079
MW-13	11/15/07	0.0013	<0.002	<0.001	<0.002	0.007

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-1005
Terracon Project Number A4077008

All concentrations are in mg/l

Well ID	Sample Date	EPA Method SW 846-8260B				
		Benzene	Toluene	Ethylbenzene	m, p-Xylenes	o-Xylene
MW-14	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-14	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-14	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-14	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-14	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	08/18/04	<0.001	<0.001	<0.001	0.0157	0.00796
MW-14	11/02/04	0.0106	<0.001	<0.001	0.00618	0.00537
MW-14	03/22/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	05/17/05	0.00906	<0.001	<0.001	<0.002	<0.001
MW-14	08/15/05	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	11/18/05	0.00494	<0.001	<0.001	<0.002	<0.001
MW-14	02/16/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	05/22/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	08/07/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	11/21/06	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-14	05/11/07	0.000836 (J)	<0.001	<0.001	<0.001	<0.001
MW-14	08/10/07	<0.001	<0.001	<0.001	<0.002	<0.001
MW-14	11/15/07	0.0012	<0.002	<0.001	<0.002	<0.001
MW-15	11/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW-15	02/27/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-15	05/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-15	08/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW-15	11/10/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW-15	02/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-15	05/06/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-15	08/24/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-15	11/02/04	Well placed in annual sampling program				
MW-15	03/22/05	Not Sampled Due to Sample Reduction				
MW-15	05/17/05	Not Sampled Due to Sample Reduction				
MW-15	08/15/05	0.137	<0.001	<0.001	0.00927	0.0102
MW-15	11/18/05	Not Sampled Due to Sample Reduction				
MW-15	02/16/06	0.0693	<0.001	<0.001	<0.002	<0.001
MW-15	05/22/06	0.0183	<0.001	<0.001	<0.002	<0.001
MW-15	08/07/06	0.00957	<0.001	<0.001	<0.002	<0.001
MW-15	11/21/06	0.00546	<0.001	<0.001	<0.002	<0.001
MW-15	02/28/07	<0.001	<0.001	<0.001	<0.001	
MW-15	05/11/07	0.000462 (J)	<0.001	<0.001	<0.001	<0.001
MW-15	08/10/07	<0.001	<0.001	<0.001	<0.002	<0.001
MW-15	11/15/07	<0.001	<0.002	<0.001	<0.002	<0.001
TMW-1	11/02/04	4.95	2.78	1.72	2.71	0.783
TMW-1	11/18/05	1.86	<0.002	1.06	1.71	0.435
TMW-1	02/16/06	1.69	<0.002	1.03	2.19	0.604
TMW-1	05/22/06	Not Sampled				
TMW-1	08/07/06	Not Sampled				
TMW-1	11/21/06	Not Sampled				
TMW-1	02/28/07	1.66	<0.05	0.777	1.6	
TMW-1	05/11/07	0.843	0.334	1.03	2.75	0.439
TMW-1	08/10/07	Not Sampled Due to the Presence of PSH				
TMW-1	11/15/07	Not Sampled Due to the Presence of PSH				
EB-1	09/30/02	<0.001	<0.001	<0.001	<0.001	<0.001
NMWQCC Groundwater Standards		0.01	0.75	0.75	0.62	

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

NMWQCC - New Mexico Water Quality Control Commission

Results in **BOLD** are above the NMWQCC Groundwater Standards

PSH - Phase Separated Hydrocarbons

TABLE 3
CONCENTRATIONS OF PAHs IN GROUNDWATER
Livingston Ridge to Hugh - P. Sims
Lea County, New Mexico
Plains Pipeline, L. P. SRS Number 2001-11005
Terracon Project Number A4077008

[illegible]

NE - Standards for these constituents has not been established by the NMWQCC

APPENDIX C

Laboratory Data Sheets

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite G Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
290 East Sunset Road, Suite E El Paso, Texas 79922 868•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Catherine London
Terracon - Midland
24 Smith Road
Suite 261
Midland, TX, 79705

Report Date: March 2, 2007

Work Order: 7030111



Project Location:
Project Name: Livingston Ridge
Project Number: A4977008

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
117739	MW-1	water	2007-02-28	14:15	2007-03-01
117740	MW-2	water	2007-02-28	13:15	2007-03-01
117741	MW-3	water	2007-02-28	13:05	2007-03-01
117742	MW-4	water	2007-02-28	13:35	2007-03-01
117743	MW-5	water	2007-02-28	13:40	2007-03-01
117744	MW-6	water	2007-02-28	13:25	2007-03-01
117745	MW-7	water	2007-02-28	13:10	2007-03-01
117746	MW-8	water	2007-02-28	13:30	2007-03-01
117747	MW-9	water	2007-02-28	13:20	2007-03-01
117748	MW-10	water	2007-02-28	13:00	2007-03-01
117749	MW-11	water	2007-02-28	13:55	2007-03-01
117750	MW-12	water	2007-02-28	13:50	2007-03-01
117751	MW-13	water	2007-02-28	13:45	2007-03-01
117752	MW-14	water	2007-02-28	14:00	2007-03-01
117753	MW-15	water	2007-02-28	14:05	2007-03-01
117754	TMW-1	water	2007-02-28	14:10	2007-03-01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 117739 - MW-1

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.714	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		0.439	mg/L	20	0.00100
Xylene		0.498	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/L	20	2.00	102	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		1.75	mg/L	20	2.00	88	22.2 - 104.5

Sample: 117740 - MW-2

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0941	mg/L	1	0.100	94	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0784	mg/L	1	0.100	78	22.2 - 104.5

Sample: 117741 - MW-3

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0913	mg/L	1	0.100	91	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0720	mg/L	1	0.100	72	22.2 - 104.5

Sample: 117742 - MW-4

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0221	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0142	mg/L	1	0.00100
Xylene		0.0116	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0901	mg/L	1	0.100	90	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0787	mg/L	1	0.100	79	22.2 - 104.5

Sample: 117743 - MW-5

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.360	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.412	mg/L	5	0.00100
Xylene		0.504	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.485	mg/L	5	0.500	97	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.439	mg/L	5	0.500	88	22.2 - 104.5

Sample: 117744 - MW-6

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100

continued ...

sample 117744 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00270	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0903	mg/L	1	0.100	90	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0775	mg/L	1	0.100	78	22.2 - 104.5

Sample: 117745 - MW-7

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 35143 Date Analyzed: 2007-03-01 Analyzed By: ss
Prep Batch: 30499 Sample Preparation: Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0912	mg/L	1	0.100	91	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0691	mg/L	1	0.100	69	22.2 - 104.5

Sample: 117746 - MW-8

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 35143 Date Analyzed: 2007-03-01 Analyzed By: ss
Prep Batch: 30499 Sample Preparation: Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0917	mg/L	1	0.100	92	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0696	mg/L	1	0.100	70	22.2 - 104.5

Sample: 117747 - MW-9

Analysis: BTEN
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0919	mg/L	1	0.100	92	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0676	mg/L	1	0.100	68	22.2 - 104.5

Sample: 117748 - MW-10

Analysis: BTEN
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/L	1	0.100	90	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0602	mg/L	1	0.100	60	22.2 - 104.5

Sample: 117749 - MW-11

Analysis: BTEN
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00390	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0660	mg/L	1	0.100	66	22.2 - 104.5

Sample: 117750 - MW-12

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		0.00220	mg/L	1	0.00100
Ethylbenzene		0.00490	mg/L	1	0.00100
Xylene		0.0112	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0856	mg/L	1	0.100	86	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0796	mg/L	1	0.100	80	22.2 - 104.5

Sample: 117751 - MW-13

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00310	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0706	mg/L	1	0.100	71	22.2 - 104.5

Sample: 117752 - MW-14

Analysis: BTEX
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100

continued ...

sample 117752 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0894	mg/L	1	0.100	89	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0678	mg/L	1	0.100	68	22.2 - 104.5

Sample: 117753 - MW-15

Analysis: BTEN
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0922	mg/L	1	0.100	92	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0658	mg/L	1	0.100	66	22.2 - 104.5

Sample: 117754 - TMW-1

Analysis: BTEN
QC Batch: 35143
Prep Batch: 30499

Analytical Method: S 8021B
Date Analyzed: 2007-03-01
Sample Preparation:

Prep Method: S 5030B
Analyzed By: ss
Prepared By: ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.66	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		0.777	mg/L	50	0.00100
Xylene		1.60	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.74	mg/L	50	5.00	95	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		4.38	mg/L	50	5.00	88	22.2 - 104.5

Method Blank (1) QC Batch: 35143

QC Batch: 35143
Prep Batch: 30499

Date Analyzed: 2007-03-01
QC Preparation: 2007-03-01

Analyzed By: ss
Prepared By: ss

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0752	mg/L	1	0.100	75	54.4 - 112.5

Laboratory Control Spike (LCS-1)

QC Batch: 35143
Prep Batch: 30499

Date Analyzed: 2007-03-01
QC Preparation: 2007-03-01

Analyzed By: ss
Prepared By: ss

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0999	mg/L	1	0.100	<0.000200	100	76.4 - 120.5
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.2 - 117.8
Ethylbenzene	0.103	mg/L	1	0.100	<0.000200	103	78.8 - 117.9
Xylene	0.311	mg/L	1	0.300	<0.000300	104	80 - 120.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0990	mg/L	1	0.100	<0.000200	99	76.4 - 120.5	1	20
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.2 - 117.8	0	20
Ethylbenzene	0.103	mg/L	1	0.100	<0.000200	103	78.8 - 117.9	0	20
Xylene	0.312	mg/L	1	0.300	<0.000300	104	80 - 120.1	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0905	0.0884	mg/L	1	0.100	90	88	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.0913	0.0911	mg/L	1	0.100	91	91	63.2 - 122.4

Standard (ICV-1)

QC Batch: 35143

Date Analyzed: 2007-03-01

Analyzed By: ss

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2007-03-01

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.103	103	85 - 115	2007-03-01
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2007-03-01
Xylene		mg/L	0.300	0.319	106	85 - 115	2007-03-01

Standard (CCV-1)

QC Batch: 35143

Date Analyzed: 2007-03-01

Analyzed By: ss

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0964	96	85 - 115	2007-03-01
Toluene		mg/L	0.100	0.0961	96	85 - 115	2007-03-01
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2007-03-01
Xylene		mg/L	0.300	0.306	102	85 - 115	2007-03-01

7030111

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL, GEOCHEMICAL AND CONSTRUCTION MATERIALS SERVICES

Terracon

Consulting Engineers & Scientists

Office Location Midland TXProject Manager Catherine London

Sampler's Name

Brandon WilsonProj. No. A4077008Project Name
Livingston RidgeNo/Type of Containers
48 cans

Matrix	Date	Time	C o m p	G r a d	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	P/O 250 ml
W	2/28/07	14:15	X		MW-1			3		
		13:15			MW-2					
		13:05			MW-3					
		13:35			MW-4					
		13:40			MW-5					
		13:25			MW-6					
		13:10			MW-7					
		13:30			MW-8					
		13:20			MW-9					
		13:09			MW-10					

Lab Sample ID (Lab Use Only)

117739
940
741
742
743
744
745
746
747
748

ANALYSIS

REQUESTED:

Laboratory: Trace

Address:

Contact:

Phone:

PO/SO #: 2004-11005

Sampler's Signature

B. Wil

Lab use only

Due Date:

Temp. of coolers
when received (C°):

1 2 3 4 5
Page 1 of 2

Turn around time Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)

Date: 2/28Time: 9:24

Received by (Signature)

Date: 3/1/07Time: 9:24

Received by (Signature)

Date: 3/1/07Time: 9:24

Received by (Signature)

Date: 3/1/07Time: 9:24Date: 3/1/07Time: 08:45Date: 3/1/07Time: 9:24Date: 3/1/07Time: 9:24Date: 3/1/07Time: 9:24Date: 3/1/07Time: 9:24NOTES: all tests - MidlandCamille Reynolds w/ Plainsoff

PFE 3/2/07

SL - sludge O - Oil

C - Charcoal tube
P/O - Plastic or other

Houston Office

11555 Clay Road, Suite 100

Houston, Texas 77043

(713) 690-8989 Fax (713) 690-8787

Dallas Office

8901 Carpenter Freeway, Suite 100

Dallas, Texas 75247

(214) 630-1010 Fax (214) 630-7070

Fort Worth Office

2601 Gravel Drive

Fort Worth, Texas 76118

(817) 268-8600 Fax (817) 268-8602

Austin Office

5307 Industrial Oaks Blvd. # 160

Austin, Texas 78735

(512) 442-1122 Fax (512) 442-1181

Midland Office

24 Smith Rd., # 261

Midland, Texas 79705

(432) 684-9600 Fax (432) 684-9608

7030111

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL, GEOTECHNICAL AND CONSTRUCTION MATERIALS SERVICES

Terracon
Consulting Engineers & Scientists

Office Location: Midland TX

Laboratory: Trace

Address: _____

Contact: _____

Phone: _____

PO/SO #: 2004-11005

Project Manager: Catherine London

Sampler's Name: _____

Sampler's Signature: _____

Brandon Wilson

Project Name: Livingston Ridge

No/Type of Containers: 48 Vocs

Matrix	Date	Time	Identifying Marks of Sample(s)				Start Depth	End Depth	VOA	AVG 1 Lt.	250 ml	P/O
			C	G	r	a						

W	2/28/07	13:55	X						3			
		13:50										
		13:45										
		14:00										
		14:05										
		14:10										

Lab Sample ID (Lab Use Only)
117749
750
751
752
753
754

ANALYSIS REQUESTED

Lab use only
Due Date:

Temp. of coolers when received (C°):

1	2	3	4	5
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Page 2 of 2

BTEX (80218)

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature): B. Wilson Date: 3/1/07 Time: 08:45 Received by (Signature): Camille Reynolds Date: 3/1/07 Time: 08:45

Relinquished by (Signature): B. Wilson Date: 3/1/07 Time: 9:24 Received by (Signature): AK002 Date: 3/1/07 Time: 09:24

Relinquished by (Signature): _____ Date: _____ Time: _____ Received by (Signature): _____ Date: _____ Time: _____

Relinquished by (Signature): _____ Date: _____ Time: _____ Received by (Signature): _____ Date: _____ Time: _____

NOTES: all tests - Midland
Camille Reynolds w/ Plains
- MW-11, MW-12, & MW-14 only have
two vocs.

Matrix Container: WW - Wastewater
VOA: 40 ml vial

W - Water: A/G - Amber / Or Glass 1 Liter
S - Soil: 250 ml - Glass wide mouth
L - Liquid: 250 ml - Glass wide mouth
C - Charcoal tube: P/O - Plastic or other
SL - sludge: O - Oil

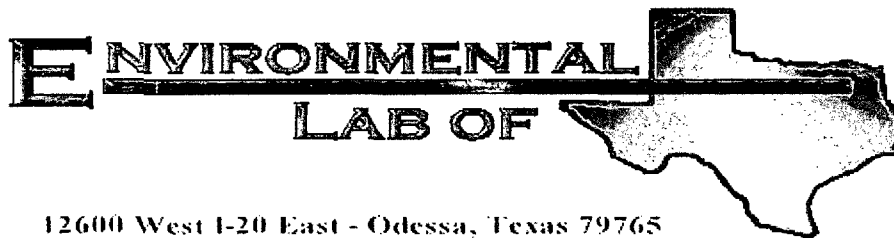
Houston Office: 11555 Clay Road, Suite 100, Houston, Texas 77043 (713) 690-8989 Fax: (713) 690-8787

Dallas Office: 8901 Carpenter Freeway, Suite 100, Dallas, Texas 75247 (214) 630-1010 Fax: (214) 630-7070

Fort Worth Office: 2601 Gravel Drive, Fort Worth, Texas 76118 (817) 268-8600 Fax: (817) 268-8602

Austin Office: 5307 Industrial Oaks Blvd. # 160, Austin, Texas 78735 (512) 442-1122 Fax: (512) 442-1181

Midland Office: 24 Smith Rd., # 261, Midland, Texas 79705 (432) 684-9600 Fax: (432) 684-9608



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Livingston Ridge -Hughes P. Sims

Project Number: 2004-11005

Location: None Given

Lab Order Number: 7E14008

Report Date: 05/23/07

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMW-1	7E14008-01	Water	05/11/07 15:05	05-14-2007 13:05
MW-1	7E14008-02	Water	05/11/07 14:55	05-14-2007 13:05
MW-4	7E14008-05	Water	05/11/07 14:45	05-14-2007 13:05
MW-5	7E14008-06	Water	05/11/07 14:50	05-14-2007 13:05
MW-6	7E14008-07	Water	05/11/07 14:30	05-14-2007 13:05
MW-9	7E14008-10	Water	05/11/07 14:25	05-14-2007 13:05
MW-10	7E14008-11	Water	05/11/07 14:05	05-14-2007 13:05
MW-11	7E14008-12	Water	05/11/07 13:50	05-14-2007 13:05
MW-12	7E14008-13	Water	05/11/07 14:00	05-14-2007 13:05
MW-13	7E14008-14	Water	05/11/07 13:55	05-14-2007 13:05
MW-14	7E14008-15	Water	05/11/07 13:40	05-14-2007 13:05
MW-15	7E14008-16	Water	05/11/07 13:45	05-14-2007 13:05

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMW-1 (7E14008-01) Water									
Benzene	0.843	0.200	mg/L	200	EE71712	05/17/07	05/18/07	EPA 8021B	
Toluene	0.334	0.200	"	"	"	"	"	"	
Ethylbenzene	1.03	0.200	"	"	"	"	"	"	
Xylene (p/m)	2.75	0.200	"	"	"	"	"	"	
Xylene (o)	0.439	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	80-120		"	"	"	"	
MW-1 (7E14008-02) Water									
Benzene	0.966	0.0100	mg/L	10	EE71712	05/17/07	05/18/07	EPA 8021B	
Toluene	0.0309	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.288	0.0100	"	"	"	"	"	"	
Xylene (p/m)	0.396	0.0100	"	"	"	"	"	"	
Xylene (o)	0.0397	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
MW-4 (7E14008-05) Water									
Benzene	0.0390	0.00100	mg/L	1	EE71712	05/17/07	05/18/07	EPA 8021B	
Toluene	0.00629	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.336	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.187	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00725	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		154 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		127 %	80-120		"	"	"	"	S-04
MW-5 (7E14008-06) Water									
Benzene	0.397	0.0100	mg/L	10	EE71712	05/17/07	05/19/07	EPA 8021B	
Toluene	0.0141	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.387	0.0100	"	"	"	"	"	"	
Xylene (p/m)	0.291	0.0100	"	"	"	"	"	"	
Xylene (o)	0.196	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	

Environmental Lab of Texas

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

Page 2 of 8

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

Project: Livingston Ridge -Hughes P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-6 (7E14008-07) Water

Benzene	I [0.000700]	0.00100	mg/L	1	EE71712	05/17/07	05/19/07	EPA 8021B	
Toluene	I [0.000698]	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00211	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000687]	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00672	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	

MW-9 (7E14008-10) Water

Benzene	ND	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	

MW-10 (7E14008-11) Water

Benzene	0.00145	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000361]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	80-120		"	"	"	"	

MW-11 (7E14008-12) Water

Benzene	0.00348	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	I [0.000890]	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000537]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000277]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	

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Page 3 of 8

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (7E14008-13) Water									
Benzene	0.00205	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	I [0.000858]	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000546]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000378]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-120		"	"	"	"	
MW-13 (7E14008-14) Water									
Benzene	I [0.000684]	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	I [0.000352]	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00293	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000972]	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00625	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
MW-14 (7E14008-15) Water									
Benzene	I [0.000836]	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-120		"	"	"	"	
MW-15 (7E14008-16) Water									
Benzene	I [0.000462]	0.00100	mg/L	1	EE71713	05/17/07	05/21/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.4 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 4 of 8

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE71712 - EPA 5030C (GC)

Blank (EE71712-BLK1)

Prepared: 05/17/07 Analyzed: 05/18/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	54.9		ug/l	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	48.1		"	50.0		96.2	80-120			

LCS (EE71712-BS1)

Prepared: 05/17/07 Analyzed: 05/18/07

Benzene	0.0519	0.00100	mg/L	0.0500		104	80-120			
Toluene	0.0533	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0532	0.00100	"	0.0500		106	80-120			
Xylene (p/m)	0.103	0.00100	"	0.100		103	80-120			
Xylene (o)	0.0556	0.00100	"	0.0500		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	55.1		ug/l	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	53.0		"	50.0		106	80-120			

Calibration Check (EE71712-CCV1)

Prepared: 05/17/07 Analyzed: 05/19/07

Benzene	0.0537		mg/L	0.0500		107	80-120			
Toluene	0.0548		"	0.0500		110	80-120			
Ethylbenzene	0.0562		"	0.0500		112	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0582		"	0.0500		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	56.2		ug/l	50.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	56.1		"	50.0		112	80-120			

Matrix Spike (EE71712-MS1)

Source: 7E14006-11

Prepared: 05/17/07 Analyzed: 05/19/07

Benzene	0.0578	0.00100	mg/L	0.0500	0.00294	110	80-120			
Toluene	0.0561	0.00100	"	0.0500	0.00103	110	80-120			
Ethylbenzene	0.0534	0.00100	"	0.0500	ND	107	80-120			
Xylene (p/m)	0.104	0.00100	"	0.100	ND	104	80-120			
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	58.0		ug/l	50.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	51.9		"	50.0		104	80-120			

Environmental Lab of Texas

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE71712 - EPA 5030C (GC)

Matrix Spike Dup (EE71712-MSD1)			Source: 7E14006-11		Prepared: 05/17/07 Analyzed: 05/19/07					
Benzene	0.0576	0.00100	mg/L	0.0500	0.00294	109	80-120	0.913	20	
Toluene	0.0557	0.00100	"	0.0500	0.00103	109	80-120	0.913	20	
Ethylbenzene	0.0555	0.00100	"	0.0500	ND	111	80-120	3.67	20	
Xylene (p/m)	0.104	0.00100	"	0.100	ND	104	80-120	0.00	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	0.858	20	
Surrogate: a,a,a-Trifluorotoluene	59.2		ug/l	50.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	55.2		"	50.0		110	80-120			

Batch EE71713 - EPA 5030C (GC)

Blank (EE71713-BLK1)			Prepared: 05/17/07 Analyzed: 05/21/07							
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	50.0		81.6	80-120			
Surrogate: 4-Bromofluorobenzene	43.1		"	50.0		86.2	80-120			

LCS (EE71713-BS1)			Prepared: 05/17/07 Analyzed: 05/21/07							
Benzene	0.0433	0.00100	mg/L	0.0500		86.6	80-120			
Toluene	0.0470	0.00100	"	0.0500		94.0	80-120			
Ethylbenzene	0.0501	0.00100	"	0.0500		100	80-120			
Xylene (p/m)	0.110	0.00100	"	0.100		110	80-120			
Xylene (o)	0.0537	0.00100	"	0.0500		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.9		ug/l	50.0		81.8	80-120			
Surrogate: 4-Bromofluorobenzene	43.9		"	50.0		87.8	80-120			

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

Project: Livingston Ridge -Hughs P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE71713 - EPA 5030C (GC)

Calibration Check (EE71713-CCV1)

Prepared: 05/17/07 Analyzed: 05/22/07

Benzene	0.0487		mg/L	0.0500		97.4	80-120			
Toluene	0.0504		"	0.0500		101	80-120			
Ethylbenzene	0.0507		"	0.0500		101	80-120			
Xylene (p/m)	0.102		"	0.100		102	80-120			
Xylene (o)	0.0523		"	0.0500		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/l	50.0		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	49.0		"	50.0		98.0	80-120			

Matrix Spike (EE71713-MS1)

Source: 7E15010-06

Prepared: 05/17/07 Analyzed: 05/22/07

Benzene	0.0476	0.00100	mg/L	0.0500	ND	95.2	80-120			
Toluene	0.0481	0.00100	"	0.0500	ND	96.2	80-120			
Ethylbenzene	0.0484	0.00100	"	0.0500	ND	96.8	80-120			
Xylene (p/m)	0.103	0.00100	"	0.100	ND	103	80-120			
Xylene (o)	0.0509	0.00100	"	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.6		ug/l	50.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	44.4		"	50.0		88.8	80-120			

Matrix Spike Dup (EE71713-MSD1)

Source: 7E15010-06

Prepared: 05/17/07 Analyzed: 05/22/07

Benzene	0.0486	0.00100	mg/L	0.0500	ND	97.2	80-120	2.08	20	
Toluene	0.0499	0.00100	"	0.0500	ND	99.8	80-120	3.67	20	
Ethylbenzene	0.0505	0.00100	"	0.0500	ND	101	80-120	4.25	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	3.81	20	
Xylene (o)	0.0532	0.00100	"	0.0500	ND	106	80-120	3.85	20	
Surrogate: a,a,a-Trifluorotoluene	47.6		ug/l	50.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	46.8		"	50.0		93.6	80-120			

Environmental Lab of Texas

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Page 7 of 8

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

Project: Livingston Ridge -Hughes P. Sims
Project Number: 2004-11005
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

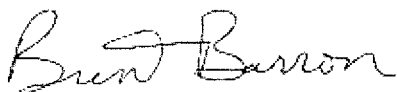
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/23/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

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Page 8 of 8

Analytical Report 282519

for

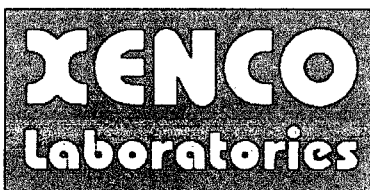
PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Livingston Ridge-Hughs P. Sims

2004-11005

22-MAY-07



12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



22-MAY-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **282519**
Livingston Ridge-Hughs P. Sims
Project Address: None Given

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 282519. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 282519 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 282519



PLAINS ALL AMERICAN EH&S, Midland, TX

Livingston Ridge-Hughs P. Sims

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TMW-1	W	May-11-07 15:05		282519-001
MW-1	W	May-11-07 14:55		282519-002
MW-2	W	May-11-07 14:20		282519-003
MW-3	W	May-11-07 14:10		282519-004
MW-4	W	May-11-07 14:45		282519-005
MW-5	W	May-11-07 14:50		282519-006
MW-6	W	May-11-07 14:30		282519-007
MW-7	W	May-11-07 14:15		282519-008
MW-8	W	May-11-07 14:40		282519-009
MW-9	W	May-11-07 14:25		282519-010
MW-10	W	May-11-07 14:05		282519-011
MW-11	W	May-11-07 13:50		282519-012
MW-12	W	May-11-07 14:00		282519-013
MW-13	W	May-11-07 13:55		282519-014
MW-14	W	May-11-07 13:40		282519-015
MW-15	W	May-11-07 13:45		282519-016



Certificate of Analysis Summary 282519

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: Livingston Ridge-Hughs P. Sims

Project Id: 2004-11005

Date Received in Lab: May-14-07 01:05 pm

Contact: Camille Reynolds

Report Date: 22-MAY-07

Project Location: None Given

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	282519-001	282519-002	282519-003	282519-004
	Field Id:	TMW-1	MW-1	MW-2	MW-3
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	May-11-07 15:05	May-11-07 14:55	May-11-07 14:20	May-11-07 14:10
PAHs by EPA 8310	Extracted:	May-15-07 09:56	May-15-07 09:58	May-15-07 09:59	May-15-07 10:01
	Analyzed:	May-16-07 04:06	May-15-07 19:22	May-15-07 19:55	May-16-07 11:36
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Acenaphthylene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Anthracene		ND 0.004	ND 0.001	ND 0.001	ND 0.001
Benzo(a)anthracene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Benzo(a)pyrene		ND 0.003	ND 0.001	ND 0.001	ND 0.001
Benzo(g,h,i)perylene		ND 0.006	ND 0.001	ND 0.001	ND 0.001
2-Methylnaphthalene		0.197 0.024	0.028 0.004	ND 0.001	0.001 0.001
Benzo(k)fluoranthene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Benzo(b)fluoranthene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Chrysene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Dibenz(a,h)Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluoranthene		ND 0.002	ND 0.001	ND 0.001	ND 0.001
Fluorene		0.008 0.003	0.001 0.001	ND 0.001	ND 0.001
Indeno(1,2,3-c,d)Pyrene		ND 0.003	ND 0.001	ND 0.001	ND 0.001
Naphthalene		0.062 0.024	0.017 0.004	ND 0.001	ND 0.001
Phenanthrene		ND 0.002	0.012 0.004	ND 0.001	ND 0.001
Pyrene		ND 0.002	ND 0.001	ND 0.001	ND 0.001

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 282519

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: Livingston Ridge-Hughs P. Sims

Project Id: 2004-11005

Date Received in Lab: May-14-07 01:05 pm

Contact: Camille Reynolds

Report Date: 22-MAY-07

Project Location: None Given

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	282519-005	282519-006	282519-007	282519-008
	<i>Field Id:</i>	MW-4	MW-5	MW-6	MW-7
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	May-11-07 14:45	May-11-07 14:50	May-11-07 14:30	May-11-07 14:15
PAHs by EPA 8310	<i>Extracted:</i>	May-15-07 10:02	May-15-07 10:04	May-15-07 10:06	May-15-07 10:08
	<i>Analyzed:</i>	May-15-07 20:28	May-15-07 21:00	May-15-07 21:33	May-15-07 22:06
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Acenaphthylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(g,h,i)perylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
2-Methylnaphthalene		0.042 0.006	0.022 0.002	ND 0.001	ND 0.001
Benzo(k)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(b)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Chrysene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Dibenz(a,h)Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluorene		0.001 0.001	0.606 0.001	ND 0.001	ND 0.001
Indeno(1,2,3-c,d)Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Naphthalene		0.034 0.006	0.019 0.002	ND 0.001	ND 0.001
Phenanthrene		0.006 0.005	ND 0.001	0.001 0.001	ND 0.001
Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 282519

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: Livingston Ridge-Hughs P. Sims

Project Id: 2004-11005

Date Received in Lab: May-14-07 01:05 pm

Contact: Camille Reynolds

Report Date: 22-MAY-07

Project Location: None Given

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	282519-009	282519-010	282519-011	282519-012
	<i>Field Id:</i>	MW-8	MW-9	MW-10	MW-11
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	May-11-07 14:40	May-11-07 14:25	May-11-07 14:05	May-11-07 13:50
PAHs by EPA 8310	<i>Extracted:</i>	May-15-07 10:10	May-15-07 10:12	May-15-07 10:14	May-15-07 10:16
	<i>Analyzed:</i>	May-15-07 22:39	May-15-07 23:11	May-16-07 00:17	May-16-07 00:49
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Acenaphthylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(g,h,i)perylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
2-Methylnaphthalene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(k)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(b)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Chrysene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Dibenz(a,h)Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluorene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Indeno(1,2,3-c,d)Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Naphthalene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Phenanthrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 282519

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: Livingston Ridge-Hughs P. Sims

Project Id: 2004-11005

Date Received in Lab: May-14-07 01:05 pm

Contact: Camille Reynolds

Report Date: 22-MAY-07

Project Location: None Given

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	282519-013	282519-014	282519-015	282519-016
	<i>Field Id:</i>	MW-12	MW-13	MW-14	MW-15
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	May-11-07 14:00	May-11-07 13:55	May-11-07 13:40	May-11-07 13:45
PAHs by EPA 8310	<i>Extracted:</i>	May-15-07 10:18	May-15-07 10:20	May-15-07 10:22	May-15-07 10:24
	<i>Analyzed:</i>	May-16-07 01:22	May-16-07 01:55	May-16-07 02:27	May-16-07 03:00
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Acenaphthylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(a)pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(g,h,i)perylene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
2-Methylnaphthalene		ND 0.001	ND 0.001	0.001 0.001	ND 0.001
Benzo(k)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Benzo(b)fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Chrysene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Dibenz(a,h)Anthracene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluoranthene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Fluorene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Indeno(1,2,3-c,d)Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Naphthalene		ND 0.001	ND 0.001	0.001 0.001	ND 0.001
Phenanthrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001
Pyrene		ND 0.001	ND 0.001	ND 0.001	ND 0.001

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
3016 U.S. HWY 301 North - Suite 900, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge-Hughs P. Sims



Work Order #: 282519

Project ID: 2004-11005

Lab Batch #: 697137

Sample: 282519-001 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	<16.8	1.00	0	20-116	***

Lab Batch #: 697137

Sample: 282519-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	<1.93	1.15	0	20-116	**

Lab Batch #: 697137

Sample: 282519-002 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	<3.36	1.00	144	20-116	***

Lab Batch #: 697137

Sample: 282519-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.94	1.03	188	20-116	**

Lab Batch #: 697137

Sample: 282519-003 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.969	1.00	97	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge-Hughs P. Sims



Work Order #: 282519

Project ID: 2004-11005

Lab Batch #: 697137

Sample: 282519-004 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.956	1.00	96	20-116	

Lab Batch #: 697137

Sample: 282519-005 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	<4.20	1.00	83	20-116	

Lab Batch #: 697137

Sample: 282519-005 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.15	1.00	115	20-116	

Lab Batch #: 697137

Sample: 282519-006 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	<1.68	1.00	100	20-116	

Lab Batch #: 697137

Sample: 282519-006 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.12	1.00	112	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge-Hughs P. Sims



Work Order #: 282519

Project ID: 2004-11005

Lab Batch #: 697137

Sample: 282519-007 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	0.936	1.00	94	20-116	

Lab Batch #: 697137

Sample: 282519-008 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	0.976	1.00	98	20-116	

Lab Batch #: 697137

Sample: 282519-009 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	0.973	1.00	97	20-116	

Lab Batch #: 697137

Sample: 282519-010 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	1.17	1.20	98	20-116	

Lab Batch #: 697137

Sample: 282519-011 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
PAHs by EPA 8310	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Terphenyl-D14	0.948	1.00	95	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge-Hughs P. Sims



Work Order #: 282519

Project ID: 2004-11005

Lab Batch #: 697137

Sample: 282519-012 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.957	1.00	96	20-116	

Lab Batch #: 697137

Sample: 282519-013 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.993	1.00	99	20-116	

Lab Batch #: 697137

Sample: 282519-014 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.00	1.00	100	20-116	

Lab Batch #: 697137

Sample: 282519-015 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.917	1.00	92	20-116	

Lab Batch #: 697137

Sample: 282519-016 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.984	1.00	98	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge-Hughs P. Sims



Work Order #: 282519

Project ID: 2004-11005

Lab Batch #: 697137

Sample: 495107-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.985	1.00	99	20-116	

Lab Batch #: 697137

Sample: 495107-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.01	1.00	101	20-116	

Lab Batch #: 697137

Sample: 495107-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

PAHs by EPA 8310 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.929	1.00	93	20-116	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Livingston Ridge-Hughs P. Sims

Work Order #: 282519

Analyst: RES

Lab Batch ID: 697137

Sample: 495107-1-BKS

Date Prepared: 05/15/2007

Batch #: 1

Project ID: 2004-11005

Date Analyzed: 05/15/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
PAHs by EPA 8310 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Acenaphthene	0.000	0.001	ND	0	0.001	ND	0	NC	38-146	25	L
	Acenaphthylene	ND	0.001	ND	0	0.001	ND	0	NC	17-172	25	L
	Anthracene	0.000	0.001	ND	0	0.001	ND	0	NC	37-146	25	L
	Benzo(a)anthracene	0.000	0.001	ND	0	0.001	ND	0	NC	52-169	25	L
	Benzo(a)pyrene	0.000	0.001	ND	0	0.001	ND	0	NC	47-143	25	L
	Benzo(g,h,i)perylene	ND	0.001	ND	0	0.001	ND	0	NC	16-210	25	L
	2-Methylnaphthalene	ND	0.001	ND	0	0.001	ND	0	NC	70-130	25	L
	Benzo(k)fluoranthene	0.000	0.001	ND	0	0.001	ND	0	NC	27-176	25	L
	Benzo(b)fluoranthene	0.000	0.001	ND	0	0.001	ND	0	NC	27-176	25	L
	Chrysene	0.000	0.001	ND	0	0.001	ND	0	NC	72-138	25	L
	Dibenz(a,h)Anthracene	0.000	0.001	ND	0	0.001	ND	0	NC	60-134	25	L
	Fluoranthene	0.000	0.001	ND	0	0.001	ND	0	NC	15-152	25	L
	Fluorene	0.000	0.001	ND	0	0.001	ND	0	NC	31-159	25	LF
	Indeno(1,2,3-c,d)Pyrene	0.000	0.001	ND	0	0.001	ND	0	NC	5-198	25	L
Naphthalene	ND	0.001	ND	0	0.001	ND	0	NC	25-172	25	L	
Phenanthrene	0.000	0.001	ND	0	0.001	ND	0	NC	46-157	25	L	
Pyrene	0.000	0.001	ND	0	0.001	ND	0	NC	28-172	25	L	

Relative Percent Difference $RPD = 200 * [(D-F)/(D+F)]$

Blank Spike Recovery $[D] = 100 * (C)/[B]$

Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Terracon

Consulting Engineers & Scientists

Office Location Midland TXProject Manager Catherine LendenSampler's Name Brandon L. WilsonSampler's Signature [Signature]PO/ISO #: 9024-11005Laboratory: ELDT

Address: _____

Contact: _____

Phone: _____

ANALYSIS
REQUESTEDLab use only
Due Date:Temp. of coolers
when received (C°):

1	2	3	4	5
---	---	---	---	---

Page 2 of 2Proj. No. A4077008 Project Name Leighton Ridge - Hughes P. Sams

No/Type of Containers

VOA

A/G 1 L

250 ml

P/O

Identifying Marks of Sample(s)

Depth

Depth

Depth

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Turn around time ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% RushRelinquished by (Signature) [Signature] Date: 5/14/07 13:05

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

Relinquished by (Signature) _____ Date: _____

NOTES:

Cumille Reynolds w/ Plans- 2.0 °Cw/ labelsMatrix WM - Wastewater VOA - 40 ml Vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid 250 ml - Glass wide mouth A - Air Bag C - Charcoal tube SL - sludge O - OilHouston Office
11555 Clay Road, Suite 100
Houston, Texas 77043
(713) 690-8989 Fax (713) 690-8787Dallas Office
8901 Carpenter Freeway, Suite 100
Dallas, Texas 75247
(214) 630-1010 Fax (214) 630-7070Fort Worth Office
2601 Gravel Drive
Fort Worth, Texas 76118
(817) 268-8600 Fax (817) 268-8602Austin Office
5307 Industrial Oaks Blvd. # 160
Austin, Texas 78735
(512) 442-1122 Fax (512) 442-1181Midland Office
24 Smith Rd., # 261
Midland, Texas 79705
(432) 684-9600 Fax (432) 684-9608

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

Client: Terracon
Date/ Time: 5-14-07 13:05
Lab ID #: 7E14008
Initials: GL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	- 2.0 °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____
Regarding: _____

Corrective Action Taken:

Check all that Apply:

☐ See attached e-mail/ fax

☐ Client understands and would like to proceed with analysis

☐ Cooling process had begun shortly after sampling event

Analytical Report 287837

for

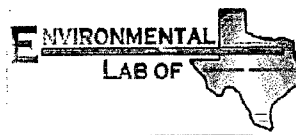
PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Livingston Ridge -HP Sims

2001-11005

23-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



23-AUG-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **287837**
Livingston Ridge -HP Sims
Project Address:

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287837. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287837 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 287837

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2001-11005

Contact: Camille Reynolds

Project Location:

Project Name: Livingston Ridge -HP Sims

Date Received in Lab: Mon Aug-13-07 05:05 pm

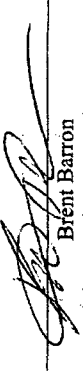
Report Date: 23-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:		287837-001		287837-002		287837-003		287837-004		287837-005		287837-006	
	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L
BTEX by EPA 8021B														
Benzene														
Toluene														
Ethylbenzene														
m,p-Xylene														
o-Xylene														
Total Xylenes														
Total BTEX														

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretation and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 287837

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2001-11005
Contact: Camille Reynolds
Project Location:

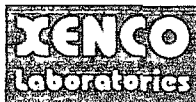
Project Name: Livingston Ridge -HP Sims
Date Received in Lab: Mon Aug-13-07 05:05 pm
Report Date: 23-AUG-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	287837-007	287837-008	287837-009	287837-010	287837-011
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL:	MW-12 WATER Aug-10-07 17:55 Aug-16-07 12:19 Aug-17-07 16:12 mg/L RL ND 0.0050 ND 0.0050 ND 0.0050 ND 0.0100 ND 0.0050 ND ND	MW-10 WATER Aug-10-07 18:20 Aug-16-07 12:19 Aug-17-07 16:33 mg/L RL 0.0020 0.0010 ND 0.0010 0.0028 0.0010 ND 0.0020 ND 0.0010 ND	MW-4 WATER Aug-10-07 18:35 Aug-16-07 12:19 Aug-17-07 16:54 mg/L RL 0.0171 0.0100 ND 0.0100 0.3113 0.0100 0.1332 0.0200 ND 0.0100 0.1332	MW-5 WATER Aug-10-07 18:55 Aug-16-07 12:19 Aug-17-07 17:14 mg/L RL 0.2765 0.0250 ND 0.0250 0.2858 0.0250 0.2025 0.0500 0.1315 0.0250 0.334	MW-1 WATER Aug-10-07 19:05 Aug-16-07 12:19 Aug-17-07 17:35 mg/L RL 1.031 0.0500 ND 0.0500 0.1670 0.0500 0.1945 0.1000 ND 0.0500 0.1945
BTEX by EPA 8021B						
Benzene						
Toluene						
Ethylbenzene						
m,p-Xylene						
o-Xylene						
Total Xylenes						
Total BTEX						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge -HP Sims



Work Order #: 287837

Project ID: 2001-11005

Lab Batch #: 702457

Sample: 287724-006 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0433	0.0500	87	80-120	

Lab Batch #: 702457

Sample: 287724-006 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0438	0.0500	88	80-120	

Lab Batch #: 702457

Sample: 287837-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0407	0.0500	81	80-120	

Lab Batch #: 702457

Sample: 498280-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0473	0.0500	95	80-120	

Lab Batch #: 702457

Sample: 498280-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0405	0.0500	81	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge -HP Sims



Work Order #: 287837

Project ID: 2001-11005

Lab Batch #: 702637

Sample: 287837-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0370	0.0500	74	80-120	**

Lab Batch #: 702637

Sample: 287837-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0360	0.0500	72	80-120	**

Lab Batch #: 702637

Sample: 287837-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0351	0.0500	70	80-120	**

Lab Batch #: 702637

Sample: 287837-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.2307	0.2500	92	80-120	

Lab Batch #: 702637

Sample: 287837-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.1851	0.2500	74	80-120	**

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge -HP Sims



Work Order #: 287837

Project ID: 2001-11005

Lab Batch #: 702637

Sample: 287837-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0375	0.0500	75	80-120	**

Lab Batch #: 702637

Sample: 287837-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.3949	0.5000	79	80-120	**

Lab Batch #: 702637

Sample: 287837-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.8873	1.250	71	80-120	**

Lab Batch #: 702637

Sample: 287837-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	1.977	2.500	79	80-120	**

Lab Batch #: 702637

Sample: 287838-011 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0455	0.0500	91	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge -HP Sims



Work Order #: 287837

Project ID: 2001-11005

Lab Batch #: 702637

Sample: 287838-011 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0424	0.0500	85	80-120	

Lab Batch #: 702637

Sample: 498328-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0382	0.0500	76	80-120	*

Lab Batch #: 702637

Sample: 498328-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	ND	ND		80-120	*U
4-Bromofluorobenzene	0.0354	0.0500	71	80-120	*

Lab Batch #: 702693

Sample: 287181-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0544	0.0500	109	80-120	

Lab Batch #: 702693

Sample: 287181-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0540	0.0500	108	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge -HP Sims



Work Order #: 287837

Project ID: 2001-11005

Lab Batch #: 702693

Sample: 287837-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0311	0.0500	62	80-120	**

Lab Batch #: 702693

Sample: 498397-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0548	0.0500	110	80-120	

Lab Batch #: 702693

Sample: 498397-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0462	0.0500	92	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Livingston Ridge -HP Sims

Work Order #: 287837

Project ID:

2001-11005

Lab Batch #: 702457

Sample: 498280-1-BKS

Matrix: Water

Date Analyzed: 08/16/2007

Date Prepared: 08/15/2007

Analyst: CELKEE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.0500	0.0472	94	70-125	
Toluene	ND	0.0500	0.0481	96	70-125	
Ethylbenzene	ND	0.0500	0.0508	102	71-129	
m,p-Xylene	ND	0.1000	0.0885	89	70-131	
o-Xylene	ND	0.0500	0.0484	97	71-133	

Lab Batch #: 702637

Sample: 498328-1-BKS

Matrix: Water

Date Analyzed: 08/17/2007

Date Prepared: 08/16/2007

Analyst: SHE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.0500	0.0464	93	70-125	
Toluene	ND	0.0500	0.0469	94	70-125	
Ethylbenzene	ND	0.0500	0.0498	100	71-129	
m,p-Xylene	ND	0.1000	0.0881	88	70-131	
o-Xylene	ND	0.0500	0.0478	96	71-133	

Lab Batch #: 702693

Sample: 498397-1-BKS

Matrix: Water

Date Analyzed: 08/20/2007

Date Prepared: 08/17/2007

Analyst: SHE

Reporting Units: mg/L

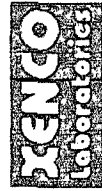
Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.0500	0.0354	71	70-125	
Toluene	ND	0.0500	0.0372	74	70-125	
Ethylbenzene	ND	0.0500	0.0399	80	71-129	
m,p-Xylene	ND	0.1000	0.0756	76	70-131	
o-Xylene	ND	0.0500	0.0375	75	71-133	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries



Project Name: Livingston Ridge -HP Sims

Work Order #: 287837

Lab Batch ID: 702457

Date Analyzed: 08/16/2007

Reporting Units: mg/L

Project ID: 2001-11005

QC- Sample ID: 287724-006 S

Date Prepared: 08/15/2007

Batch #: 1 Matrix: Water

Analyst: CELKEE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Reporting Units: mg/L	BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	0.0135	0.0500	0.0533	80	0.0500	0.0572	87	8	70-125	25		
	Toluene	0.0202	0.0500	0.0561	72	0.0500	0.0609	81	12	70-125	25		
	Ethylbenzene	ND	0.0500	0.0506	101	0.0500	0.0518	104	3	71-129	25		
	m,p-Xylene	0.0122	0.1000	0.0964	84	0.1000	0.0980	86	2	70-131	25		
	o-Xylene	0.0081	0.0500	0.0545	93	0.0500	0.0561	96	3	71-133	25		

Lab Batch ID: 702637

Date Analyzed: 08/17/2007

Reporting Units: mg/L

QC- Sample ID: 287838-011 S

Date Prepared: 08/16/2007

Batch #: 1 Matrix: Water

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
Analytes	BTEX by EPA 8021B											
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	0.0881	0.0500	0.1105	45	0.0500	0.1138	51	13	70-125	25	X	
	0.0012	0.0500	0.0463	90	0.0500	0.0466	91	1	70-125	25		
	0.0295	0.0500	0.0688	79	0.0500	0.0685	78	1	71-129	25		
	0.0229	0.1000	0.0988	76	0.1000	0.0991	76	0	70-131	25		
	ND	0.0500	0.0481	96	0.0500	0.0481	96	0	71-133	25		

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: Livingston Ridge -HP Sims

Work Order #: 287837

Lab Batch ID: 702693

Date Analyzed: 08/21/2007

Reporting Units: mg/L

Project ID: 2001-11005

QC- Sample ID: 287181-002 S

Batch #: 1 Matrix: Water

Date Prepared: 08/17/2007

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0061	0.0500	0.0430	74	0.0500	0.0433	74	0	70-125	25	
Toluene	ND	0.0500	0.0393	79	0.0500	0.0392	78	1	70-125	25	
Ethylbenzene	ND	0.0500	0.0419	84	0.0500	0.0420	84	0	71-129	25	
m,p-Xylene	ND	0.1000	0.0761	76	0.1000	0.0759	76	0	70-131	25	
o-Xylene	ND	0.0500	0.0393	79	0.0500	0.0397	79	0	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL, GEOTECHNICAL AND CONSTRUCTION MATERIALS SERVICES

HBC Terracon Consulting Engineers & Scientists Office Location: Midland, TX		Laboratory: ELOT Address: Contact: Phone:		ANALYSIS REQUESTED Due Date:	
Project Manager: Catherine Lombardo Project Name: Livingston 2050 - HP 5000 Project No.: A4077008		Sampler's Signature: [Signature] No. Type of Containers: 4 / VOA		Lab Sample ID (Lab Use Only): 287837	
Matrix: W Date: 8/10/07 Time: 3:45		Identifying Marks of Sample(s): MW-9 MW-6 MW-14 MW-15 MW-11 MW-13 MW-12 MW-10 MW-4 MW-5		Terms of contract when received (C): 1 2 3 4 5 Page 1 of 3	
Relinquished by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Received by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Date: 8/10/07 Time: 5:25	
Relinquished by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Received by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Date: 8/10/07 Time: 5:25	
Relinquished by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Received by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Date: 8/10/07 Time: 5:25	
Relinquished by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Received by (Signature): [Signature] Date: 8/10/07 Time: 5:25		Date: 8/10/07 Time: 5:25	
Matrix Container: WW - Wastewater VOA - 40 ml Vol		W - Water AG - Ammonia or Glass 1 Liter		S - Soil SD - Solid L - Liquid 250 ml - Glass wide mouth	
Dallas Office 1214 N. Stemmons Freeway, Suite 100 Dallas, Texas 75242 (214) 722-0700 FAX (214) 722-0708		Fort Worth Office 1214 N. Stemmons Freeway, Suite 100 Fort Worth, Texas 76104 (817) 248-8000 FAX (817) 248-8002		Austin Office 1214 N. Stemmons Freeway, Suite 100 Austin, Texas 78701 (512) 412-1112 FAX (512) 412-1101	

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

Client: Terracon
Date/ Time: 8.13.07 5:05
Lab ID #: 287837
Initials: al

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	☒ Yes	☐ No	3.5 °C
#2	Shipping container in good condition?	☒ Yes	☐ No	
#3	Custody Seals intact on shipping container/ cooler?	☒ Yes	☐ No	Not Present
#4	Custody Seals intact on sample bottles/ container?	☒ Yes	☐ No	Not Present
#5	Chain of Custody present?	☒ Yes	☐ No	
#6	Sample instructions complete of Chain of Custody?	☒ Yes	☐ No	
#7	Chain of Custody signed when relinquished/ received?	☒ Yes	☐ No	
#8	Chain of Custody agrees with sample label(s)?	☒ Yes	☐ No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	☒ Yes	☐ No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	☒ Yes	☐ No	
#11	Containers supplied by ELDT?	☒ Yes	☐ No	
#12	Samples in proper container/ bottle?	☒ Yes	☐ No	See Below
#13	Samples properly preserved?	☒ Yes	☐ No	See Below
#14	Sample bottles intact?	☒ Yes	☐ No	
#15	Preservations documented on Chain of Custody?	☒ Yes	☐ No	
#16	Containers documented on Chain of Custody?	☒ Yes	☐ No	
#17	Sufficient sample amount for indicated test(s)?	☒ Yes	☐ No	See Below
#18	All samples received within sufficient hold time?	☒ Yes	☐ No	See Below
#19	Subcontract of sample(s)?	☒ Yes	☐ No	Not Applicable
#20	VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 293200

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Livingston Ridge

2001-11005

28-NOV-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

**Texas certification numbers:
Houston, TX T104704215**

**Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675**

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta**



28-NOV-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **293200**
Livingston Ridge
Project Address:

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 293200. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 293200 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 293200

PLAINS ALL AMERICAN EH&S, Midland, TX

Livingston Ridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-14	W	Nov-15-07 16:25		293200-001
MW-15	W	Nov-15-07 16:50		293200-002
MW-12	W	Nov-15-07 17:17		293200-003
MW-11	W	Nov-15-07 17:45		293200-004
MW-13	W	Nov-15-07 18:16		293200-005
MW-10	W	Nov-16-07 09:30		293200-006
MW-09	W	Nov-16-07 09:58		293200-007
MW-06	W	Nov-16-07 10:21		293200-008
MW-04	W	Nov-16-07 10:53		293200-009
MW-05	W	Nov-16-07 11:13		293200-010



Certificate of Analysis Summary 293200

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: 2001-11005
Contact: Camille Reynolds
Project Location:

Project Name: Livingston Ridge
Date Received in Lab: Fri Nov-16-07 02:05 pm
Report Date: 28-NOV-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293200-001	293200-002	293200-003	293200-004	293200-005	293200-006
	Field Id:	MW-14	MW-15	MW-12	MW-11	MW-13	MW-10
	Depth:						
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	Sampled:	Nov-15-07 16:25	Nov-15-07 16:50	Nov-15-07 17:17	Nov-15-07 17:45	Nov-15-07 18:16	Nov-16-07 09:30
BTEX by EPA 8021B	Extracted:	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33
	Analyzed:	Nov-26-07 10:58	Nov-26-07 11:14	Nov-26-07 11:31	Nov-26-07 21:43	Nov-26-07 21:59	Nov-26-07 12:20
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
		0.0012 0.0010	ND 0.0010	ND 0.0010	0.0021 0.0010	0.0013 0.0010	0.0040 0.0010
Benzene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
Toluene		ND 0.0010	ND 0.0010	ND 0.0010	0.0014 0.0010	ND 0.0010	ND 0.0010
Ethylbenzene		ND 0.0020	ND 0.0020	ND 0.0020	0.0022 0.0020	ND 0.0020	ND 0.0020
m,p-Xylenes		ND 0.0010	ND 0.0010	ND 0.0010	0.0076 0.0010	0.0070 0.0010	ND 0.0010
o-Xylene		ND	ND	ND	0.0098	0.007	ND
Xylenes, Total		0.0012	ND	ND	0.0133	0.0083	0.004
Total BTEX							

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Version: 1.001


Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 293200

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: 2001-11005
Contact: Camille Reynolds
Project Location:

Project Name: Livingston Ridge
Date Received in Lab: Fri Nov-16-07 02:05 pm
Report Date: 28-NOV-07
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	293200-007	293200-008	293200-009	293200-010	
		Field Id:	MW-09	MW-06	MW-04	MW-05	
		Depth:					
		Matrix:	WATER	WATER	WATER	WATER	
		Sampled:	Nov-16-07 09:58	Nov-16-07 10:21	Nov-16-07 10:53	Nov-16-07 11:13	
BTEX by EPA 8021B	Extracted:	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	Nov-26-07 08:33	
	Analyzed:	Nov-26-07 12:36	Nov-26-07 12:52	Nov-26-07 22:16	Nov-26-07 13:25	Nov-26-07 13:25	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
	Benzene	ND 0.0010	ND 0.0010	0.0108 0.0010	0.0039 0.0010	0.0039 0.0010	
	Toluene	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	
Ethylbenzene		ND 0.0010	0.0010 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	
	m,p-Xylenes	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	
o-Xylene		ND 0.0010	ND 0.0010	0.0031 0.0010	ND 0.0010	ND 0.0010	
	Xylenes, Total	ND	ND	0.0031	ND	ND	
Total BTEX		ND	0.001	0.0139	0.0039	0.0039	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.001


Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge

Work Order #: 293200

Project ID: 2001-11005

Lab Batch #: 709263

Sample: 293200-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 709263

Sample: 293200-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 709263

Sample: 293200-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 709263

Sample: 293200-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0411	0.0300	137	80-120	**

Lab Batch #: 709263

Sample: 293200-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0363	0.0300	121	80-120	**

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge

Work Order #: 293200

Project ID: 2001-11005

Lab Batch #: 709263

Sample: 293200-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1,4-Difluorobenzene	0.0351	0.0300	117	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 709263

Sample: 293200-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 709263

Sample: 293200-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 709263

Sample: 293200-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0357	0.0300	119	80-120	

Lab Batch #: 709263

Sample: 293200-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1,4-Difluorobenzene	0.0354	0.0300	118	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Livingston Ridge

Work Order #: 293200

Project ID: 2001-11005

Lab Batch #: 709263

Sample: 501880-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 709263

Sample: 501880-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 709263

Sample: 501880-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Livingston Ridge

Work Order #: 293200

Analyst: SHE

Lab Batch ID: 709263

Sample: 501880-1-BKS

Units: mg/L

Date Prepared: 11/26/2007

Batch #: 1

Project ID: 2001-11005

Date Analyzed: 11/26/2007

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Benzene		ND	0.1000	0.1091	109	0.1	0.1193	119	9	70-125	25	
Toluene		ND	0.1000	0.1069	107	0.1	0.1187	119	10	70-125	25	
Ethylbenzene		ND	0.1000	0.1068	107	0.1	0.1160	116	8	71-129	25	
m,p-Xylenes		ND	0.2000	0.2106	105	0.2	0.2282	114	8	70-131	25	
o-Xylene		ND	0.1000	0.1069	107	0.1	0.1162	116	8	71-133	25	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL, GEOTECHNICAL AND CONSTRUCTION MATERIALS SERVICES

Terrecon
Consulting Engineers & Scientists
Office Location: Midland

Laboratory: ELAT
Address:
Contact:
Phone:

Project Manager: Catherine London
Sample's Name: Chris Auld's

Project Name: Livingston Ridge
No. Type of Containers: 40/YOA

Matrix	Date	Time	Identifying Marks of Sample(s)	Lab Sample ID (Lab Use Only)
W	11/15/07	16:25	MW-14	
I	16:50		MW-15	
I	17:17		MW-12	
I	17:45		MW-11	
I	18:16		MW-13	
I	11/16/07	9:30	MW-10	
I	9:58		MW-9	
I	10:21		MW-6	
I	10:53		MW-4	
I	11:13		MW-5	

Analyses Requested: BTEX (SODIG)

Lab use only
Due Date:
Temp. of Coolers when received (°C): 5.5
Page 1 of 1

293200

Turn around time: 30 Normal

Requisitioned by (Signature): [Signature] Date: 11/16/07 Time: 14:05

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Notes: Jimmy Bryant w/ Plains w/ lab/seal on container

Lab Sample ID (Lab Use Only):

Project Manager: Catherine London
Sample's Name: Chris Auld's

Project Name: Livingston Ridge
No. Type of Containers: 40/YOA

Matrix	Date	Time	Identifying Marks of Sample(s)	Lab Sample ID (Lab Use Only)
W	11/15/07	16:25	MW-14	
I	16:50		MW-15	
I	17:17		MW-12	
I	17:45		MW-11	
I	18:16		MW-13	
I	11/16/07	9:30	MW-10	
I	9:58		MW-9	
I	10:21		MW-6	
I	10:53		MW-4	
I	11:13		MW-5	

Analyses Requested: BTEX (SODIG)

Lab use only
Due Date:
Temp. of Coolers when received (°C): 5.5
Page 1 of 1

293200

Turn around time: 30 Normal

Requisitioned by (Signature): [Signature] Date: 11/16/07 Time: 14:05

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Notes: Jimmy Bryant w/ Plains w/ lab/seal on container

Lab Sample ID (Lab Use Only):

Project Manager: Catherine London
Sample's Name: Chris Auld's

Project Name: Livingston Ridge
No. Type of Containers: 40/YOA

Matrix	Date	Time	Identifying Marks of Sample(s)	Lab Sample ID (Lab Use Only)
W	11/15/07	16:25	MW-14	
I	16:50		MW-15	
I	17:17		MW-12	
I	17:45		MW-11	
I	18:16		MW-13	
I	11/16/07	9:30	MW-10	
I	9:58		MW-9	
I	10:21		MW-6	
I	10:53		MW-4	
I	11:13		MW-5	

Analyses Requested: BTEX (SODIG)

Lab use only
Due Date:
Temp. of Coolers when received (°C): 5.5
Page 1 of 1

293200

Turn around time: 30 Normal

Requisitioned by (Signature): [Signature] Date: 11/16/07 Time: 14:05

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Notes: Jimmy Bryant w/ Plains w/ lab/seal on container

Lab Sample ID (Lab Use Only):

Project Manager: Catherine London
Sample's Name: Chris Auld's

Project Name: Livingston Ridge
No. Type of Containers: 40/YOA

Matrix	Date	Time	Identifying Marks of Sample(s)	Lab Sample ID (Lab Use Only)
W	11/15/07	16:25	MW-14	
I	16:50		MW-15	
I	17:17		MW-12	
I	17:45		MW-11	
I	18:16		MW-13	
I	11/16/07	9:30	MW-10	
I	9:58		MW-9	
I	10:21		MW-6	
I	10:53		MW-4	
I	11:13		MW-5	

Analyses Requested: BTEX (SODIG)

Lab use only
Due Date:
Temp. of Coolers when received (°C): 5.5
Page 1 of 1

293200

Turn around time: 30 Normal

Requisitioned by (Signature): [Signature] Date: 11/16/07 Time: 14:05

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Notes: Jimmy Bryant w/ Plains w/ lab/seal on container

Lab Sample ID (Lab Use Only):

Project Manager: Catherine London
Sample's Name: Chris Auld's

Project Name: Livingston Ridge
No. Type of Containers: 40/YOA

Matrix	Date	Time	Identifying Marks of Sample(s)	Lab Sample ID (Lab Use Only)
W	11/15/07	16:25	MW-14	
I	16:50		MW-15	
I	17:17		MW-12	
I	17:45		MW-11	
I	18:16		MW-13	
I	11/16/07	9:30	MW-10	
I	9:58		MW-9	
I	10:21		MW-6	
I	10:53		MW-4	
I	11:13		MW-5	

Analyses Requested: BTEX (SODIG)

Lab use only
Due Date:
Temp. of Coolers when received (°C): 5.5
Page 1 of 1

293200

Turn around time: 30 Normal

Requisitioned by (Signature): [Signature] Date: 11/16/07 Time: 14:05

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Requisitioned by (Signature): [Signature] Date: [] Time: []

Notes: Jimmy Bryant w/ Plains w/ lab/seal on container

Lab Sample ID (Lab Use Only):

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

Client: Plains/Terrace
Date/ Time: 11-16-07 @ 1405
Lab ID #: 243200
Initials: JMF

Sample Receipt Checklist

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

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

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

APPENDIX D
CD of 2007 Annual Groundwater Monitoring Report