AP - 41

ANNUAL MONITORING REPORT

YEAR(S): 2009

2009 ANNUAL REPORT
HUGH GATHERING 090402
PLAINS SRS NO.: 2002-10235
UL-P, SECTION 11, T21S, R37E
Lea County, New Mexico
NMOCD No.: AP-0041

RECEIVED
MAR 31 2010
Environmental Bureau
Oil Conservation Division

PREPARED FOR

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March 2010

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March 30, 2010

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

Re: 2009 Annual Reports for
Vacuum to Jal 14" Mainline #3
Vacuum to Jal 14" Mainline #5
D S Hugh
Hugh Gathering

Dear Mr. Hansen:

Please find enclosed one copy each of the 2009 Annual Report required to be submitted to the New Mexico Oil Conservation Division (NMOCD). Annual Reports for the year 2009 were prepared by Premier Environmental Services, Inc. (Premier) on behalf of Plains Pipeline, L.P. (Plains) for the following Plains' sites located in Lea County, New Mexico:

- Vacuum to Jal 14" Mainline #3; NMOCD # 1R - 455; Plains SRS # 2003 - 00117
- Vacuum to Jal 14" Mainline #5; NMOCD # 1R - 0464; Plains SRS # 2003 - 00134
- D S Hugh; NMOCD # 1R - 0463; Plains SRS # 2000 - 10807
- Hugh Gathering; NMOCD # AP-0041; Plains SRS # 2002 - 10235

If you have any questions or concerns, please feel free to call us at (281) 240-5200 extension 2703.

Yours very truly,

Chan Patel
Senior Project Manager

Steven M Sellepack
Project Geologist

cc: Larry Johnson (NMOCD Hobbs)
Mr. Jeffrey Dann, P.G. (Plains)
Local Plains Representative
Premier Environmental Services

Attachments

2009 Annual Report - Vacuum to Jal 14" Mainline #3
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2009 Annual Report - D S Hugh
2009 Annual Report - Hugh Gathering

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DISCLAIMER

Premier has examined and relied upon the file information provided by Plains. Premier has not conducted an independent examination of the information contained in the Plains files; furthermore, we assume the genuineness of the documents reviewed and that the information provided in these documents to be true and accurate. Premier has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. Premier will not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this report was prepared. Premier believes the conclusions stated herein are factual, but no guarantee is made or implied.

EXECUTIVE SUMMARY

Premier Environmental Services, Inc. (Premier) has prepared this Annual Report on behalf of Plains Pipeline, L.P. (Plains) for the Hugh Gathering (site), located in Unit Letter P (the SE¼ of the SE¼) of Section 11, T21S, R37E, of Lea County, New Mexico, approximately three miles northeast of Eunice, New Mexico. The hydrocarbon impact at the site is the result of a 50-barrel crude oil release that occurred in May 2002. The leak was apparently caused by corrosion of a 6 inch steel pipeline which was replaced, tested and put back into service.

According to Environmental Plus, Inc. (EPI) documents, the May 2002 release resulted in crude oil impacting two areas, on the east and west sides of the New Mexico State Road 18 (NMSR 18), hereafter referred to as the east and west side release areas. On the west side of NMSR 18 during June and July 2003, groundwater monitor wells MW-1 through MW-5 were installed. Phase separated hydrocarbons (PSH) were discovered on the groundwater at monitor wells MW-1, MW-2 and MW-4. In 2004, groundwater monitoring wells MW-6, MW-7, MW-8, MW-9, MW-10, MW-11 and MW-12 were installed to further delineate the horizontal extent of PSH and dissolved phase hydrocarbons.

New Mexico Oil Conservation Division (NMOCD) approved Plains' *Stage 1 and Stage 2 Abatement Plan* (Abatement Plan) for the Site. During December 2006, EPI conducted excavation, confirmation soil sampling, treatment of residual soils using MicroBlaze Spill Control® (MicroBlaze), installation of a passive vapor recovery system, clay liner placement, and backfilling of the site on the west side of NMSR 18. Details of these field activities were presented in the *2006 Annual Report* and in the *Soil Closure Report West Side NMSR 18.*

The release on the east side of NMSR 18 was initially delineated with the installation of borings BH1 to BH8 in September 2002, and further delineated by borings BH9 to BH16 in July 2006. To address the hydrocarbon impact on the east side of NMSR 18, a work plan was prepared and submitted on May 2, 2008 to the NMOCD and approved. The work plan was implemented during July through October 2008. Details of these field activities were presented in the *Soil Closure Report East Side NMSR 18* dated December 2008 and also the *2008 Annual Report*.

This annual report presents the data collected at the site during weekly groundwater gauging and PSH recovery activities and also summarizes the analytical results of the groundwater samples collected from the four quarterly groundwater sampling events conducted in 2009.

The objective of the on-going quarterly groundwater sampling activities at the site is to monitor the affected groundwater. Weekly PSH recovery activities are conducted to remove residual crude oil from groundwater. This report also summarizes soil remediation activities completed at the site in 2009.

During 2009, groundwater sampling activities were completed predominantly on the west side of NMSR 18. Although monitor well MW-12 is on the east side of NMSR 18, the dissolved phase concentrations observed are thought to have originated from the west side of NMSR 18. Of all the quarterly groundwater samples collected from monitor wells associated with the release on the west side of NMSR 18, that did not contain PSH, only monitor wells MW-5 and MW-12 displayed benzene concentrations that were above the NMOCD regulatory levels.

To address the constituents of concern (COCs) in groundwater on the east side of NMSR 18, a *Groundwater Investigation and Delineation Work Plan* letter dated February 23, 2009 was submitted to the NMOCD. This work plan proposed the installation of two additional monitor wells on the east side, to delineate the groundwater impact. Pending approval and implementation of this work plan, monitor well MW-13 remains the only well to evaluate the impact to groundwater from the release associated with the east side of NMSR 18.

Based on the field monitoring during 2009, measurable PSH was present only in monitor well MW-1. The average measurable PSH observed during 2009 in monitor well MW-1 is 3.15 ft. A hydrocarbon sheen was observed in monitor wells MW-2, MW-3, MW-4, MW-8, MW-9, and MW-10. In 2009, approximately 186 gallons of PSH and 2,437 gallons of dissolved phase fluids were recovered. To address the PSH in groundwater, total fluid removal activities will be continued during 2010 on a weekly basis using bailers, electric pumps, and absorbent socks in wells with PSH and/or sheen.

Quarterly groundwater sampling results for monitor wells associated with the release on the west side of NMSR 18 that did not contain PSH displayed benzene concentrations that were above the NMOCD regulatory limits for monitor wells MW-5 and MW-12. The benzene concentrations in monitor well MW-5 decreased to below regulatory limits during fourth quarter of 2009. Toluene, ethylbenzene, and total xylenes were all below regulatory limits.

Groundwater monitoring completed for the release associated with the east side of NMSR 18 only included quarterly sampling of monitor well MW-13. Groundwater sample collected from monitor well MW-13 revealed an average benzene concentration

of 2 mg/L, and was above the regulatory limit throughout 2009. This indicates that the COCs in groundwater are not delineated on the east side of NMSR 18.

A plume stability analysis for the plume on the west side of NMSR 18 was conducted to establish baseline benzene plume characteristics using the 2008 and 2009 benzene data. The initial plume characteristics indicated a decreasing plume mass and average plume concentration for benzene. However, no assertive trend analysis could be completed at this time as there are only two sampling events that include all the wells at the site. Additional sampling events will be necessary at this time to establish trends.

No plume stability analysis was completed for the plume associated wit the release on the east side of NMSR 18 as there is only one monitoring location sampled over a one year period. Additional data from the east side of NMSR 18 is necessary to evaluate the extent of benzene concentrations.

1.0 INTRODUCTION AND SITE HISTORY

1.1 Objectives and Site Background

This report includes a summary of activities completed during 2009 at the Hugh Gathering Site, located in Unit Letter P (the SE¼ of the SE¼) of Section 11, T21S, R37E, of Lea County, New Mexico, approximately three miles northeast of Eunice, New Mexico **(Figure 1, Appendix A)**, at latitude 32°29'11.007"N and longitude 103°07'33.864"W. Premier was retained by Plains to complete the delineation investigation, remediation and reporting activities undertaken at the Hugh Gathering site, SRS No. 2002-10235. The release was initially considered to be less than one barrel (bbl) of crude oil because of the small extent of surface impact; however, during replacement of the line and discovery of more significant soil impacts, EOTT Energy Pipeline (EOTT) upgraded the release to a 50 bbl release. The pipeline under NMSR 18 was situated inside another protective pipe with vent pipes on the east and west sides of NMSR 18. When the release occurred due to internal corrosion on the pipeline, the release was contained in the second pipe and the releases on the east and west side occurred through the vent pipes. As such, although this is considered as one release, release into the surface soil occurred at two separate points.

The initial release notification form (**Form No. C-141, Appendix D**) that was prepared by Plains, provided documentation of the release to Mr. Larry Johnson of the NMOCD. The leak was apparently caused by corrosion of a 6 inch steel pipeline which was replaced, tested and put back into service. The crude oil release volume was estimated to be approximately 50 barrel (bbls) with none recovered.

1.2 Previous Environmental Investigations

At the time of the intital release in May 2002, the pipeline was owned by EOTT (the EOTT name changed to Link Energy in October 2003) and as of April 1, 2004, Plains purchased the assets from Link Energy. According to documents available from the previous environmental consultant, Environmental Plus Inc., (EPI), the May 2002 release resulted in crude oil impacting two areas one on either side of NMSR 18 and referenced as the east and west side release areas. A surface area measuring approximately 98 feet x 12 feet was initially impacted by the release. Impacted soils to a depth of approximately four feet below ground surface (bgs) were excavated and disposed of in an NMOCD-approved landfarm. Soil and groundwater delineation activities were initiated in September 2002 with the installation of soil borings BH9 to BH16 on the west side, of which BH-10 was converted to a monitor well, MW-1. PSH

was detected on the surface of the groundwater from monitor well MW-1 at approximately 60 feet bgs.

On the east side of the release, initial delineation activities were completed with the installation of soil borings BH1 to BH8 in September 2002. The horizontal extent of soil impact on the east side appears to have covered an approximately 55 feet x 10 feet of surface area from the point of release. The vertical extent of soil impact was delineated to approximately 25 feet below ground surface (bgs) and the groundwater was not believed to be affected. In July 2006, additional delineation was completed on the east side, with the installation of soil borings BH9 through BH14. In soil boring BH13, delineation was achieved at a depth of 46 ft bgs. However, in soil boring BH11 delineation could not be completed as refusal was met at 22 feet and hydrocarbons exceeding regulatory guidelines were present at 20 feet bgs.

1.2.1 West Side Investigations and Remediation

On the west side of NMSR 18 during June and July 2003, with NMOCD approval, groundwater monitor wells MW-1, through MW-5 were installed. Recovery of PSH from groundwater monitoring wells MW-1, MW-2 and MW-4 was initiated on a weekly basis and in August 2003, daily recovery began using a gasoline powered eductor type PSH recovery system.

In 2004, with NMOCD approval, groundwater monitor wells MW-6 through MW-12, were installed to further delineate the horizontal extent of PSH and dissolved phase hydrocarbons. PSH was observed in groundwater monitor wells MW-8, MW-9 and MW-10. Dissolved phase hydrocarbons consisting of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAH) constituents were detected in the 2004 analytical results from groundwater monitor well MW-5. BTEX and PAH constituents were not detected at or above the respective laboratory method detection limits in 2004 samples from groundwater monitor wells MW-6, MW-7, MW-11 and MW-12 located on the site periphery. PSH was present in groundwater monitor wells MW-1, MW-2, MW-3, MW-4, MW-8, MW-9 and MW-10 with thicknesses ranging from 0.25 feet to11.13 feet.

In May 2005, Plains submitted an Abatement Plan to the NMOCD for approval (prepared by EPI). After a public comment period, the NMOCD subsequently approved implementation of the Abatement Plan through a November 5, 2005 letter to Plains.

Site surveillance continued in 2005 with daily PSH removal and inspections, monthly monitoring of groundwater and PSH levels, and quarterly sampling of groundwater monitor wells not impacted with PSH. In August 2005, because of declining PSH thicknesses and production rates, PSH recovery was changed from daily deployment of

the PSH recovery system to weekly hand bailing of PSH impacted wells and installation of absorbent socks. In 2005, approximately 550 gallons of crude oil were recovered and reintroduced into the Plains pipeline system. The total recovered volume of oil as of December 31, 2005, including the 600 gallons recovered from 2002 through 2004, was approximately 1,150 gallons.

During December 2006, EPI conducted excavation, confirmation soil sampling, treatment of residual soils using MicroBlaze, installation of a passive vapor recovery system, clay liner placement, and backfilling of the site on the west side of NMSR 18 (the Bryant Property). Details of these field activities were presented in the *2006 Annual Report* and in the *Soil Closure Report West Side NMSR 18.*

1.2.2 East Side Investigations and Remediation

The release on the east side of NMSR18 was initially delineated with the installation of borings BH1 to BH8 in September 2002, and further delineated by borings BH9 to BH16 in July 2006. Soil samples collected from boring BH13 identified hydrocarbon impacted soils to 35 feet bgs. Remediation of the impacted soil on the east side of NMSR 18 was delayed due to access permission from the landowner.

To address the hydrocarbon impact on the east side of NMSR 18, a work plan dated May 2, 2008 was prepared and submitted to the NMOCD and approved. The work plan was implemented during July through October 2008. During the implementation of this work plan, Premier supervised the soil remediation activities such as excavation of the top 19 feet of hydrocarbon impacted soil, clay barrier installation, and backfilling of the excavated soils. A *Soil Closure Report. East Side NMSR 18* was submitted to NMOCD in October 2008 indicating the completion of the soil remediation activities and the achievement of the target cleanup goals for soil at the site.

One monitor well, MW-13 was installed on the east side of NMSR 18 to determine if the groundwater on the east side of NMSR 18 was affected. Details of these field activities were presented to the NMOCD in *2008 Annual Report* submitted in March 2009.

2.0 2009 GROUNDWATER ACTIVITIES

2.1 Site Cleanup Goals (Groundwater)

Based on standards outlined in the New Mexico Administrative Code (NMAC), Title 20, Chapter 6, Part 2, the remediation criteria for groundwater at the Site are as follows

Benzene	0.010 mg/L
Toluene	0.750 mg/L
Ethyl benzene	0.750 mg/L
Total Xylenes	0.620 mg/L
PAHs[1, 2]	0.03 mg/L
Benzo-a-pyrene[2]	0.0007 mg/L

1 – PAHs: Total naphthalenes plus monomethyl naphthalenes
2 – PAH remediation standards will be used as target concentrations only upon permanent removal of PSH.

In addition to using these concentrations as the target cleanup goals in groundwater at the site, PSH removal will also be an integral part of on-going remediation activities at the site.

2.2 2009 PSH Recovery and Groundwater Monitoring Activities

During 2009, PSH recovery activities included weekly removal of total fluids from PSH- or sheen-impacted wells and placement of absorbent socks in these wells to passively remove PSH. These wells include monitor wells MW-1 through MW-4 and MW-8 through MW-10. These activities were completed exclusively on the monitor wells located on the west side of NMSR 18.

The site groundwater monitoring activities also included monthly gauging of all monitor wells and quarterly sampling of groundwater from monitor wells not impacted with PSH. This included monitor wells MW-5 through MW-7 and MW-11 and MW-12.

In 2008, the NMOCD also required that all recovery wells, and monitor wells containing PSH or sheen, to be sampled for BTEX, PAH and TPH. To meet this requirement, groundwater samples were collected from the wells with PSH and sheen and submitted for laboratory analysis during the second quarter of 2009 groundwater sampling event for analyses of the above listed parameters.

2.3 Groundwater Gradient

Groundwater levels measured during 2009 indicated a consistent elevation. The groundwater gradient was determined using water level measurements from the groundwater monitor wells not impacted with PSH (i.e., MW-5, MW-6, MW-7, MW-11 and MW-12) and indicated a flow direction to the southeast. The groundwater gradient is contoured for each quarter and the maps are presented in **Figures 3-A**, through **3-D**, **Appendix A**. The groundwater elevation data is presented in **Table 1, Appendix B**. The average groundwater gradient during 2009, was found to be 0.0018 ft/ft, as measured across the site between monitor wells MW-6 to MW-12, and is consistent with the gradient measured in previous years based on historical gauging data (**Table 1, Appendix B**).

2.4 Groundwater Sampling and Analytical Data

Groundwater monitor wells MW-1, MW-2, MW-3, MW-4, MW-8, MW-9 and MW-10 were not sampled during routine quarterly groundwater sampling events in 2009 due to the presence of PSH and/or sheen. Groundwater monitor wells MW-5, MW-6, MW-7, MW-11 and MW-12 were sampled on February 18, May 20, August 27 and November 17, as part of the 2009 quarterly groundwater sampling activities.

Prior to collecting groundwater samples from each well, approximately three well volumes of water were purged from each well using dedicated polyvinyl chloride (PVC) bailers. After purging was completed, groundwater samples were collected using dedicated disposable bailers. All samples collected for quarterly groundwater sampling in 2009 were placed in laboratory provided containers and placed in a cooler with ice and shipped under Chain of Custody to Trace Analysis, Inc. in Lubbock, Texas for chemical analysis. All purge water was placed in labeled 55-gallon drums and stored on site. Groundwater samples were analyzed at the laboratory for quantification of BTEX constituents during the four quarterly groundwater sampling events. The analytical results are summarized in **Table 2, Appendix B**.

To meet the requirements of the NMOCD to sample the groundwater at wells with PSH and or sheen, the second quarter of 2009 groundwater sampling event completed on May 20, 2009 also included collected samples from monitor wells MW-1 through MW-4 and MW-8 through MW-10. The samples from these wells were submitted for BTEX, PAH, and TPH analysis.

Groundwater collected from monitor well MW-13 located on the east side of NMSR 18 was also analyzed for BTEX constituents during all the four quarters in 2009.

Laboratory reports for all groundwater samples collected during the 2009 groundwater sampling activities are included in **Appendix C**. Details of each quarterly groundwater sampling event with results are presented below.

2.4.1 1st Quarter 2009 Groundwater Analytical Results

The groundwater sampling activities during the first quarter of 2009 were conducted on February 18, 2009 and included the collection of groundwater samples from monitor wells MW-5 through MW-7 and monitor wells MW-11 through MW-13 (the six wells without PSH or hydrocarbon sheen) and analyzed for BTEX constituents. Benzene was reported at concentrations greater than the groundwater standards in the groundwater collected from the monitor wells MW-5 and MW-13 at 0.0256 mg/L and 0.923 mg/L, respectively. All the remaining constituents reported above the laboratory reporting limits (RLs) were below the NMOCD remediation criteria. Groundwater samples collected from monitor wells MW-6 and MW-13 also reported ethylbenzene and total xylene concentrations, respectively, greater than the laboratory reporting limits but below the NMOCD remediation criteria. **Figure 4-A, Appendix A** presents a summary of the analytical results reported during the first quarter of 2009. BTEX constituent analytical results for the first quarter of 2009 were compared to historical analytical data and appeared to be consistent with previous years for all five wells.

Due to the presence of PSH or hydrocarbon sheen in monitor wells MW-1 through MW-4 and MW-8, MW9 and MW-10, groundwater samples were not collected from these wells during the first quarter of 2009 groundwater sampling event (see **Figure 4-D in Appendix A**).

The depth to water level measurements collected from all wells at the site during the first quarter of 2009 sampling event were used to construct the hydraulic gradient map included in **Figure 3-A, Appendix A**. The water level data collected on February 18, 2009 indicates a southeast groundwater flow across the site with an approximate gradient of 0.0018 feet/foot as measured between monitor wells MW-6 and MW-12.

During the first quarter of 2009, approximately 39 gallons of PSH and 625 gallons of groundwater with dissolved phase hydrocarbons were recovered from the seven wells with PSH or sheen. The individual well gauging data and the recovery volumes during each weekly site visit for 2009 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from the wells with PSH or sheen, is presented in **Table 5, Appendix B**.

2.4.2 2nd Quarter 2009 Groundwater Results

The groundwater sampling activities during the second quarter of 2009 were conducted on May 20, 2009 and included the collection of groundwater samples from monitor wells MW-1 through MW-13.

Of the six monitor wells without PSH (MW-5, MW-6, MW-7, MW-11, MW-12 and MW-13) that are sampled quarterly, monitor wells MW-5, MW-12 and MW-13 reported benzene at concentrations above the NMOCD remediation criteria. Toluene, ethylbenzene and total xylenes were detected in the groundwater sample from monitor well MW-5 at concentrations that exceeded the laboratory reporting limit, but were below the New Mexico WQCC groundwater standards. Total xylene was also detected in the groundwater sample from monitor well MW-13 at concentrations greater than the laboratory reporting limit, but below the NMOCD remediation criteria. All other parameters for the groundwater samples collected from these monitor wells (wells without PSH), sampled during the second quarter of 2009, were reported below the laboratory reporting limit. **Figure 4-B, Appendix A** presents the analytical results reported for these wells during the second quarter of 2009.

In order to meet NMOCD requirements, groundwater samples were also collected from monitor wells with PSH or sheen specifically, monitor wells MW-1 through MW-4 and MW-8 through MW-10. As expected, results indicated that benzene concentrations were above NMOCD remediation criteria for the groundwater samples from monitor wells MW-1, MW-2, MW-3, MW-4, MW-8, MW-9, and MW-10 (see **Table 3, Appendix B** for all results). Toluene, ethylbenzene and total xylene concentrations were reported in the groundwater sample collected from monitor well MW-1 above the regulatory limits. Toluene, ethylbenzene and total xylene concentrations in the groundwater samples collected from remaining wells with PSH or hydrocarbon sheen were reported below the regulatory limits.

Groundwater samples from monitor wells MW-1, MW-2, MW-3, MW-4, MW-8, MW-9 and MW-10 were also analyzed for PAHs and TPH during this quarter. The PAH analyses of the dissolved phase hydrocarbons in samples from wells with PSH or hydrocarbon sheen was evaluated for screening purposes only. PAH concentrations for compliance should only be evaluated once the PSH is permanently removed and BTEX concentrations in the dissolved phase plume indicate a stable or reducing dissolved phase plume.

As part of the evaluation process, PAH constituents detected (associated with crude oil) are compared directly to the New Mexico WQCC groundwater standards for PAH.

PAH compounds reported above the laboratory reporting limits were naphthalene, fluorine, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, dibenzofuran, 1-methylnaphthalene, and 2-methylnaphthalene. Of these, only naphthalene, benzo(a)anthracene, 1-methylnaphthalene and 2-methylnaphthalene were reported above the groundwater standards. The naphthalene concentrations detected in monitor wells MW-1, MW-4, MW-8, MW-9 and MW-10 were above the groundwater standards (**Table 3, Appendix B**). Benzo(a)anthracene was reported above the groundwater standards only in the groundwater sample collected from the monitor well MW-1. 1-Methylnaphthalene and 2-methylnaphthalene, detected in the groundwater samples from monitor wells MW-1, MW-4, MW-8 and MW-9, were found to exceed the groundwater standards.

Groundwater sample collected from monitor well MW-1 reported the TPH fractions of C_6-C_{10} and C_{10}-C_{28} at concentrations of 48.3 mg/L and 1,290 mg/L, respectively. The TPH concentrations from the remaining wells were reported below 30 mg/L. The PAH and TPH results are summarized on **Table 4, Appendix B**. TPH is not included in the New Mexico WQCC groundwater standards.

The depth to water level measurements collected from wells at the site during the second quarter of 2009 sampling event were used to construct the hydraulic gradient map included in **Figure 3-B, Appendix A**. The water level data collected on May 20, 2009 indicates a southeast groundwater flow across the site with an approximate gradient of 0.0019 feet/foot as measured between monitor wells MW-6 and MW-12.

During the second quarter of 2009, approximately 41 gallons of PSH and 590 gallons of groundwater with dissolved phase hydrocarbons were recovered from the wells with PSH or sheen. The individual well gauging data and the recovery volumes during each weekly site visit for 2009 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from the wells with PSH or sheen, is presented in **Table 5, Appendix B**.

2.4.3 3rd Quarter 2009 Groundwater Results

The groundwater sampling activities during the third quarter of 2009 were conducted on August 27, 2009 and included the collection of groundwater samples from monitor wells MW-5 through MW-7 and monitor wells MW-11 through MW-13.

Groundwater samples collected from wells without PSH or hydrocarbon sheen during the third quarter of 2009 reported benzene concentrations above the regulatory limits in monitor wells MW-12 and MW-13. Benzene concentration from monitor wells MW-5 and MW-7 were also reported above the laboratory RLs, but below the groundwater standards. The groundwater sample collected from monitor well MW-5 also reported

the presence of ethylbenzene and total xylenes above the laboratory RLs. Total xylene was also reported above the laboratory RLs in the groundwater samples collected from monitor wells MW-5 and MW-13. These analytical results are presented in **Figure 4-C, Appendix A**.

The depth to water level measurements collected from wells at the site during the third quarter of 2009 sampling event were used to construct the hydraulic gradient map included in **Figure 3-C, Appendix A**. The water level data collected on August 27, 2009 indicates a southeast groundwater flow across the site with an approximate gradient of 0.0017 feet/foot as measured between monitor wells MW-6 and MW-12.

During the third Quarter of 2009, approximately 56 gallons of PSH and 519 gallons of groundwater with dissolved phase hydrocarbons were recovered from the wells with PSH or sheen. The individual well gauging data and the recovery volumes during each weekly site visit for 2009 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from wells with PSH or sheen, is presented in **Table 5, Appendix B**.

2.4.4 4th Quarter 2009 Groundwater Results

The groundwater sampling activities during the fourth quarter of 2009 were conducted on November 17, 2009 and included the collection of groundwater samples from monitor wells MW-5 through MW-7 and monitor wells MW-11 through MW-13.

Groundwater samples collected from the monitor wells without PSH or hydrocarbon sheen during the fourth quarter of 2009 reported benzene concentrations above the regulatory limits in monitor wells MW-12 and MW-13. Benzene concentration from monitor wells MW-5 and MW-7 were also reported above the laboratory RLs, but below the groundwater standards. The groundwater sample collected from monitor well MW-5 also reported concentration of toluene, ethylbenzene and total xylenes, above the laboratory RLs. Total xylene was reported above the laboratory RLs in the groundwater samples collected from monitor wells MW-7 and MW-13. These analytical results are presented in **Figure 4-D, Appendix A**.

The depth to water level measurements collected from wells at the site during the fourth quarter of 2009 sampling event were used to construct the hydraulic gradient map included in **Figure 3-D, Appendix A**. The water level data collected on November 17, 2009 indicates a southeast groundwater flow across the site with an approximate gradient of 0.0019 feet/foot as measured between monitor wells MW-6 and MW-12.

During the fourth quarter of 2009, approximately 50 gallons of PSH and 704 gallons of groundwater with dissolved phase hydrocarbons were recovered from the wells with

PSH or sheen. The individual well gauging data and the recovery volumes during each weekly site visit for 2009 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from the wells with PSH or sheen, is presented in **Table 5, Appendix B**.

2.5 PSH Recovery

PSH gauging and recovery activities continued at the site in 2009 on a weekly basis. Recovery methods included using electric pumps, hand bailers and the use of absorbent socks to remove PSH observed in wells MW-1, MW-2, MW-4, MW-8 and MW-9. During 2009, the total volume of fluids recovered, including PSH and dissolved phase hydrocarbons, were increased. This assisted in allowing PSH in the affected area to flow into the recovery wells, thus enabling a greater recovery of fluids with hydrocarbons to reduce the mass of the hydrocarbon plume.

According to the EPI data, the total PSH recovery volume as of December 31, 2006, was approximately 1,222 gallons. In 2007, PSH recovery was limited to removal of fluids from monitor well MW-1. In 2007, approximately 28 gallons of PSH were recovered from a total recovered fluid volume of approximately 473 gallons. In 2008, approximately 135 gallons of PSH and 1,638 gallons of dissolved phase fluids were recovered.

Based on 2009 PSH gauging and recovery data, summarized in **Table 1** in **Appendix B**, approximately 2,437 gallons of dissolved phase hydrocarbons and 186 gallons of PSH were recovered from the wells with PSH and/or hydrocarbon sheen on site. Due to the low volume of PSH recovered using absorbent socks, PSH recovered through absorbent socks could not be quantified. The volume of PSH recovered on a monthly basis is presented in **Table 5 of Appendix B**.

2.6 Plume Stability and Trend Analysis

Understanding plume stability is an important step in the remedial planning process for a site. For instance, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not pose an imminent threat to human health and the environment.

The size of a contaminant plume is influenced by a variety of physical, chemical, and biological processes. Groundwater contaminant plumes are typically limited in size due to a combination of these processes, as well as by other hydrologic and geologic features (streams, clay layers, etc.). When a plume has reached a point of dynamic equilibrium (i.e., steady state), the mass loading to the plume from a source is equal to the rate of the mass lost from the plume by physical, chemical, biological, or in some

cases anthropogenic processes. This analysis was conducted in order to understand the overall stability of the benzene plume in terms of its area, average concentration, mass, and center of mass.

The plume stability analysis completed for the site includes the development of benzene concentration isopleth maps for the years 2008 and 2009 and evaluates data only from monitoring wells associated with the release that occurred on the east side of the NMSR 18. An average of the benzene concentrations reported in the four quarterly groundwater sampling events was used for all the wells with no PSH. Since the wells with PSH were sampled only during the second quarter groundwater sampling events in 2008 and 2009, the benzene concentrations reported during this sampling event were used in plume evaluation. The plume characteristics such as plume area, average concentration, plume mass, and plume centers of mass were calculated for each event using numerical methods and engineering principles.

A summary of the plume characteristics such as the plume mass, plume area and average concentration of benzene in the plume are calculated and are summarized in **Figure 5, Appendix B.** The plume centers of mass for the two years are presented in **Figure 6, Appendix B**. A slight shift in the plume center of mass in the downgradient groundwater flow direction was observed from 2008 to 2009. The two benzene isopleths maps for 2008 and 2009 are presented in **Figures 7 and 8, Appendix B**, respectively.

The current area affected by the benzene plume in 2009 is approximately 24 percent more than that of 2008. However, a decrease in the total mass of the benzene plume was observed. The calculated total mass of plume in 2009 is approximately 300 lbs less than the total mass computed in 2008 which is more than a 37 percent reduction in mass during the one year period. **Table 2.1** below provides a summary of plume characteristics.

Table 2.1 Summary of Plume Stability Characteristics

Date	Area (Acres)	Average Conc. (µg/l)	Mass (lbs)
2008	0.91	803	804
2009	1.13	410	508

The higher plume area was observed due to the detections in benzene concentrations during the second, third and fourth quarterly sampling events in the downgradient

monitor well MW-12. However, the total benzene plume mass and the average benzene concentration of the plume is observed to decrease from 2008 to 2009.

The plume characteristic data coupled with the analytical and gauging data indicate that the mass and average concentration of the benzene plume is decreasing. The plume center however has shifted slightly to the southeast. The groundwater elevation at the site (represented by monitor well MW-6) was compared to the PSH thickness in MW-1 to evaluate the trends in PSH thickness with respect to groundwater fluctuations. This is displayed graphically on **Figure 9, Appendix B**. It can be inferred from the figure that PSH thicknesses are consistent.

3.0 CONCLUSIONS

During 2009, groundwater monitoring and remediation activities were predominantly completed on monitor wells associated with the release on the west side of NMSR 18. These groundwater monitoring and remediation activities included quarterly groundwater sampling, monthly gauging of all wells, and weekly PSH removal. The quarterly groundwater sampling results for monitor wells that did not contain PSH displayed benzene concentrations that were above the NMOCD regulatory limits in monitor wells MW-5, MW-12 and MW-13. The benzene concentrations in monitor well MW-5 decreased to below regulatory limits during fourth quarter of 2009. Toluene, ethylbenzene, and total xylenes were all below regulatory limits.

Based on the field monitoring and analytical results of groundwater samples collected and analyzed during 2009, PSH was present during 2009 in monitor wells MW-1, MW-2, MW-3, MW-4, MW-8, MW-9, and MW-10. All these wells, except monitor well MW-1, only contained non-measurable hydrocarbon sheen. The PSH thickness in monitor well MW-1 ranged between 0.01 feet to 4.74 feet during 2009. In 2009, approximately 186 gallons of PSH and 2,437 gallons of dissolved phase fluids were recovered.

A plume stability analysis for the plume on the west side of NMSR 18 was conducted to establish baseline benzene plume characteristics using the 2008 and 2009 benzene data. The initial plume characteristics, plume mass and plume average concentrations both indicated a decreasing trend. However, no assertive trend analysis could be completed at this time as there are only two sampling events that include all the wells at the site. Additional sampling events will be necessary at this time to establish trends.

Groundwater samples were also collected from the monitor well associated with the release on the east side of NMSR 18, from monitor well MW-13. The groundwater analytical results revealed an average benzene concentration of 2 mg/L, and were above the regulatory limit throughout 2009. This indicates that the COCs in groundwater are not delineated on the east side of NMSR 18. Additional data from the east side of NMSR 18 is necessary at this time to evaluate the extent of benzene concentrations.

4.0 2009 PROPOSED ACTIVITIES

To delineate the extent of dissolved phase hydrocarbons in groundwater on the east side of NMSR,18, two additional wells consisting of one monitor well to the southeast and one monitor well directly east of monitor well MW-13, should be installed as defined in the ***Groundwater Investigation and Delineation Work Plan*** letter dated February 23, 2009. The new wells should be spaced approximately 75-100 feet from MW-13. Hydrologic gradient maps based on site data from the Hugh Gathering site located on the west side of NMSR 18, indicate a groundwater gradient to the south-southeast across the site. The location of the new wells will have to be placed with careful consideration of an oil well and its associated drilling pit located just southeast of the site.

Premier proposes to continue weekly PSH recovery operations through removal of total fluids using bailers, electric pumps, and absorbent socks in wells with PSH and/or sheen, as necessary with quarterly groundwater sampling to monitor hydrocarbons in groundwater.

Plume stability analysis and data evaluation will be completed for the quarterly data obtained during the 2010 sampling events. A statistical trend analysis will be performed using Mann-Kendall Test on the calculated values to assess the benzene plume stability as more data becomes available. A summary of the plume stability study will also be presented in the 2010 Annual Report.

DISTRIBUTION

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APPENDIX A

Figures

Figure 1 Site Location Map

Figure 2 Site Layout Map

Figure 3-A 1st Quarter 2009 - Groundwater Gradient Map

Figure 3-B 2nd Quarter 2009 - Groundwater Gradient Map

Figure 3-C 3rd Quarter 2009 - Groundwater Gradient Map

Figure 3-D 4th Quarter 2009 - Groundwater Gradient Map

Figure 4-A 1st Quarter 2009 - Groundwater Analytical Data Map

Figure 4-B 2nd Quarter 2009 - Groundwater Analytical Data Map

Figure 4-C 3rd Quarter 2009 - Groundwater Analytical Data Map

Figure 4-D 4th Quarter 2009 - Groundwater Analytical Data Map

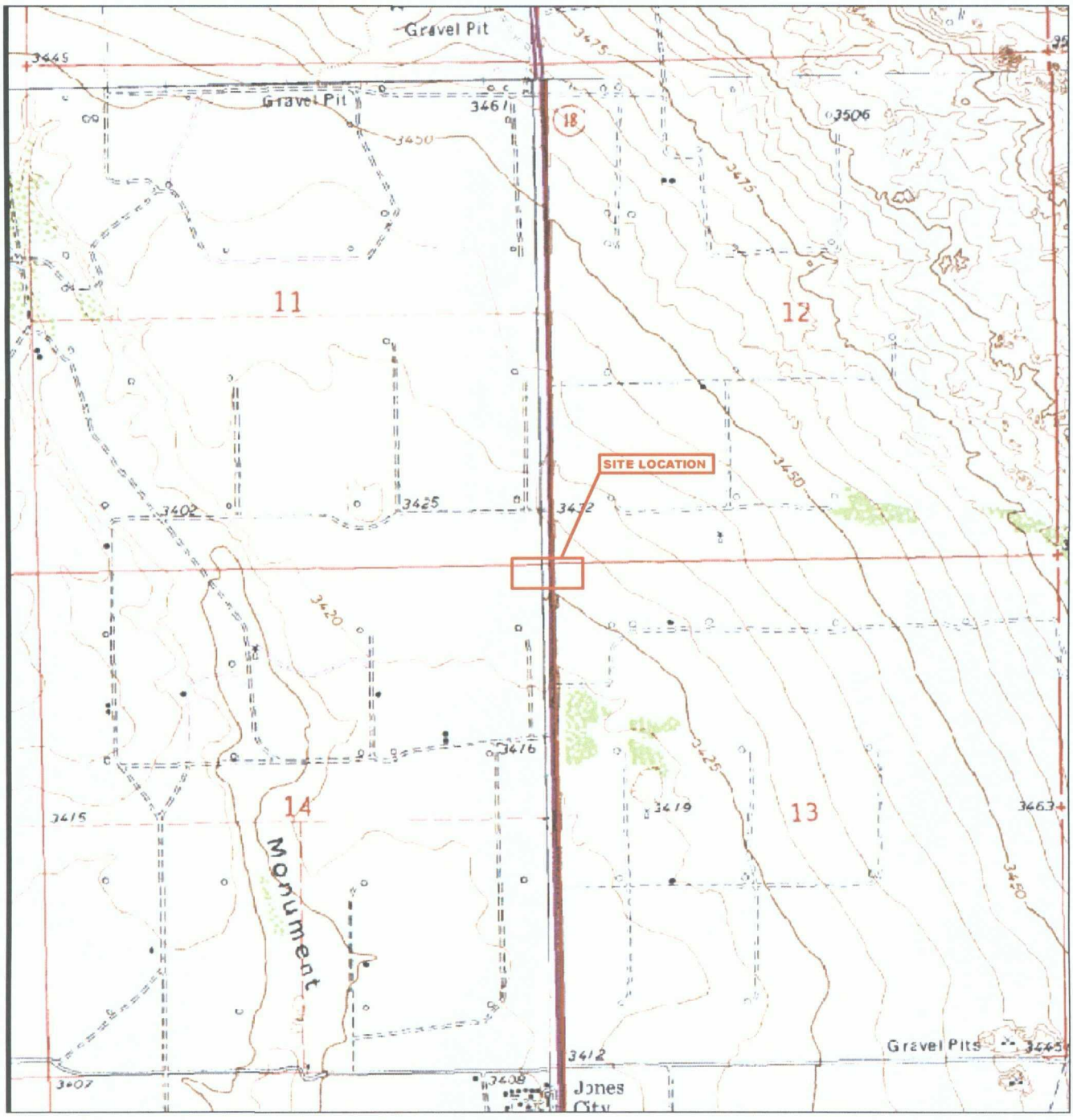
Figure 5 – Benzene Plume Stability Analysis Summary

Figure 6 – Benzene Plume Center of Mass

Figure 7 – 2008 Benzene Isopleth Map

Figure 8 – 2009 Benzene Isopleth Map

Figure 9 – Water Elevation and PSH Thickness Data



Eunice NE Quadrangle
32°29'11"N Latitude & 103°07'31"W Longitude

N

0 1/2 mile 1 mile
Distance in Miles

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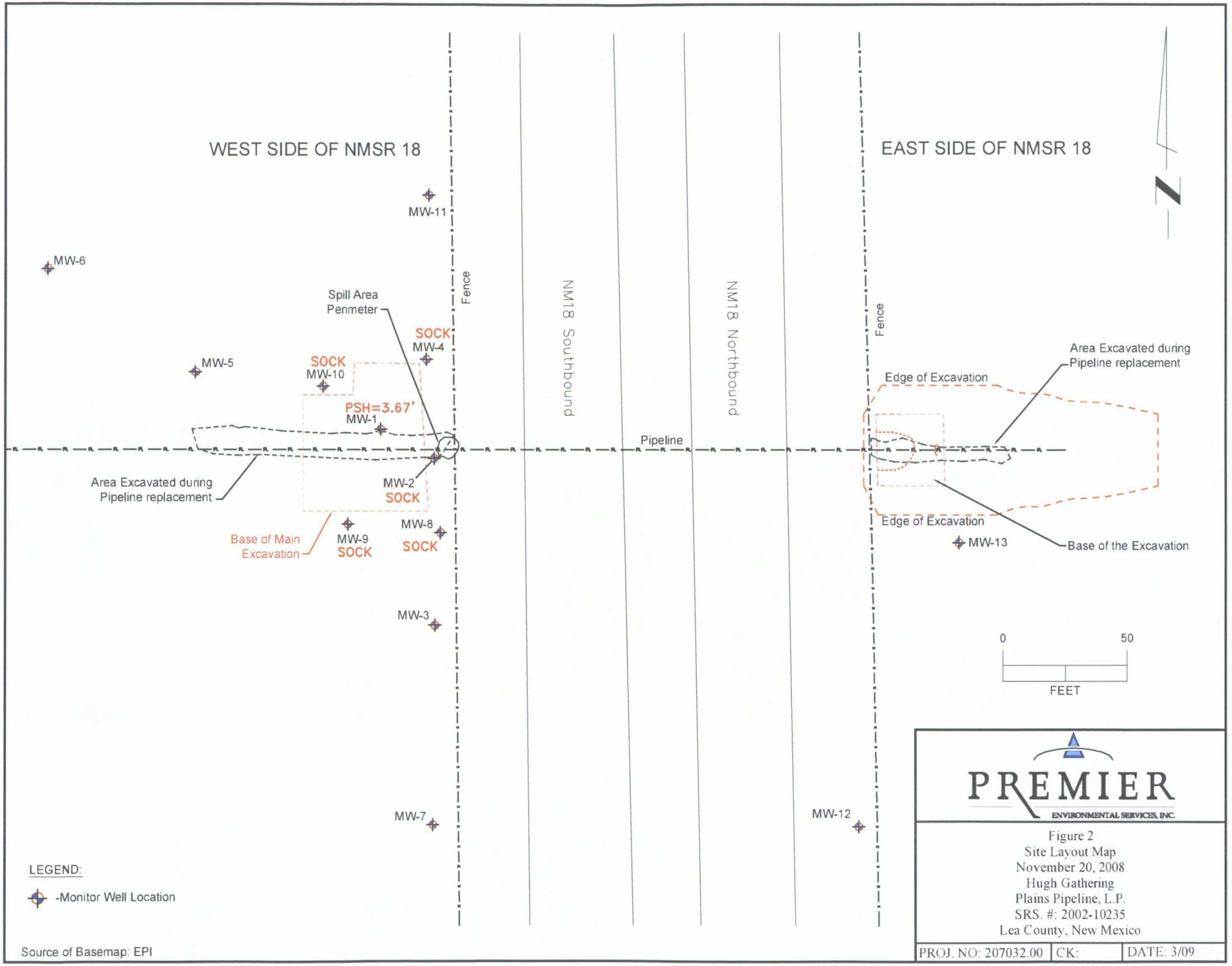
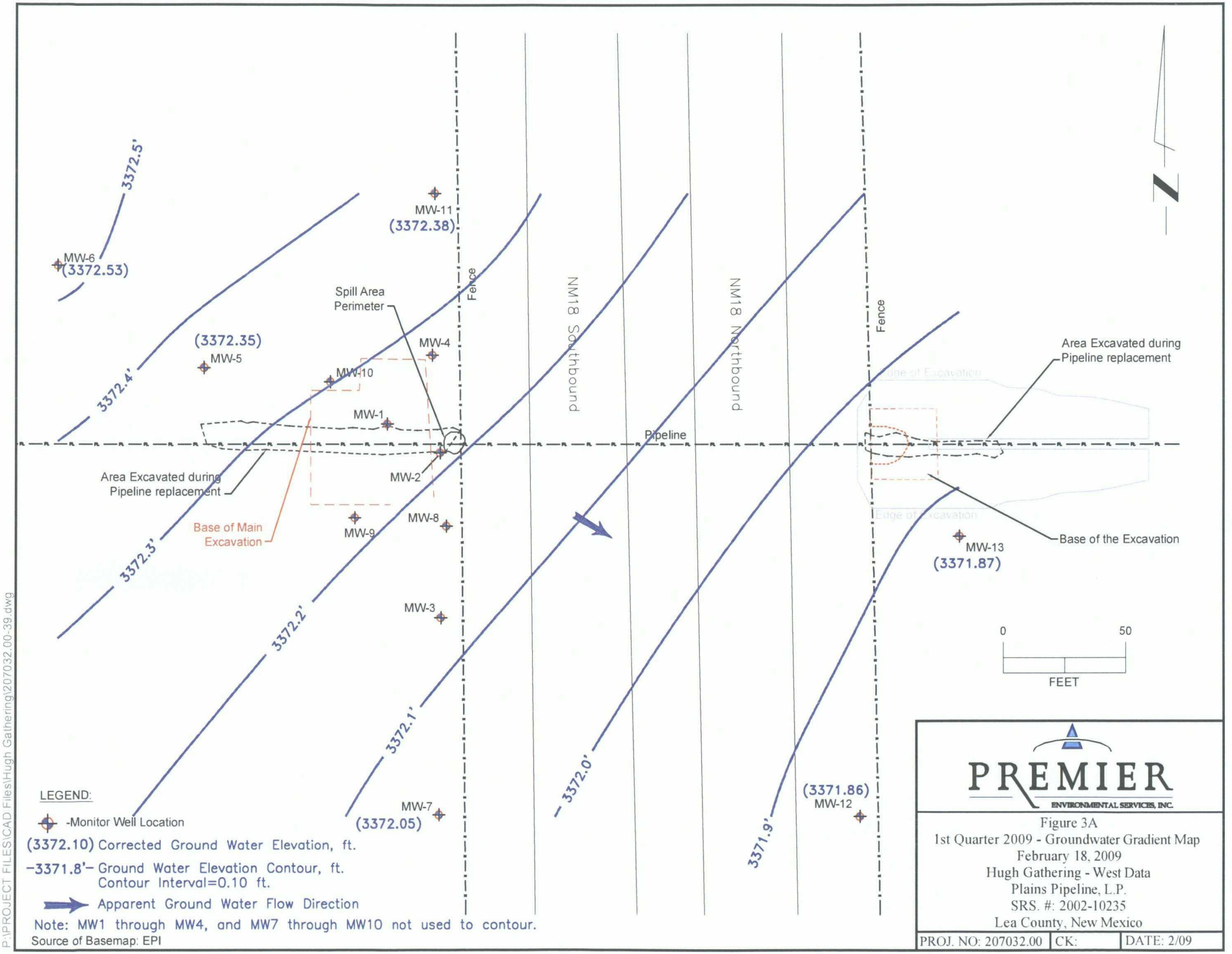
ENVIRONMENTAL SERVICES, INC.

Figure 1
Site Location Map
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 3/09

P:\PROJECT FILES\CAD Files\Hugh Gathering\207032.00-9.dwg


WEST SIDE OF NMSR 18
EAST SIDE OF NMSR 18
MW-11
MW-6
MW-5
MW-10
MW-4
MW-1
MW-2
MW-8
MW-9
MW-3
MW-7
MW-12
MW-13
SOCK
PSH=3.67'
Spill Area Perimeter
Fence
NM18 Southbound
NM18 Northbound
Pipeline
Area Excavated during Pipeline replacement
Base of Main Excavation
Edge of Excavation
Base of the Excavation
0
50
FEET
LEGEND:
-Monitor Well Location
Source of Basemap: EPI
P:\PROJECT FILES\CAD Files\Hugh Gathering\207032.00-40.dwg
PREMIER
ENVIRONMENTAL SERVICES, INC.
Figure 2
Site Layout Map
November 20, 2008
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico
PROJ. NO: 207032.00
CK:
DATE: 3/09


3372.5'
MW-6
(3372.53)
MW-11
(3372.38)
Spill Area
Perimeter
Fence
NM18 Southbound
NM18 Northbound
Fence
(3372.35)
MW-5
MW-4
MW-10
3372.4'
MW-1
Pipeline
Area Excavated during
Pipeline replacement
Area Excavated during
Pipeline replacement
MW-2
Base of Main
Excavation
MW-9
MW-8
3372.3'
Edge of Excavation
Edge of Excavation
MW-13
(3371.87)
Base of the Excavation
MW-3
3372.2'
3372.1'
3372.0'
3371.9'
(3371.86)
MW-12
MW-7
(3372.05)
0
50
FEET
LEGEND:
-Monitor Well Location
(3372.10) Corrected Ground Water Elevation, ft.
-3371.8'- Ground Water Elevation Contour, ft.
Contour Interval=0.10 ft.
Apparent Ground Water Flow Direction
Note: MW1 through MW4, and MW7 through MW10 not used to contour.
Source of Basemap: EPI
PREMIER
ENVIRONMENTAL SERVICES, INC.
Figure 3A
1st Quarter 2009 - Groundwater Gradient Map
February 18, 2009
Hugh Gathering - West Data
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico
PROJ. NO: 207032.00
CK:
DATE: 2/09
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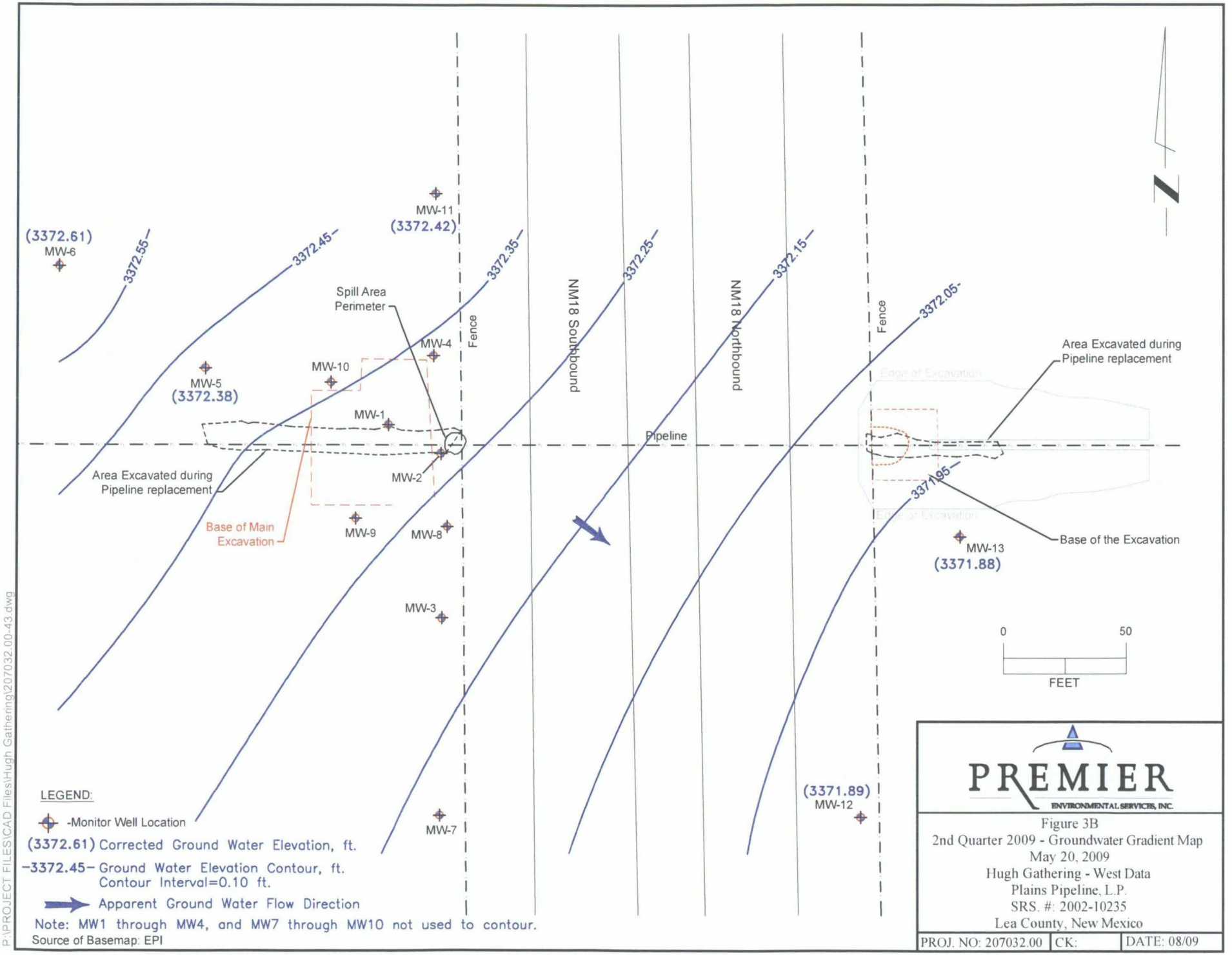

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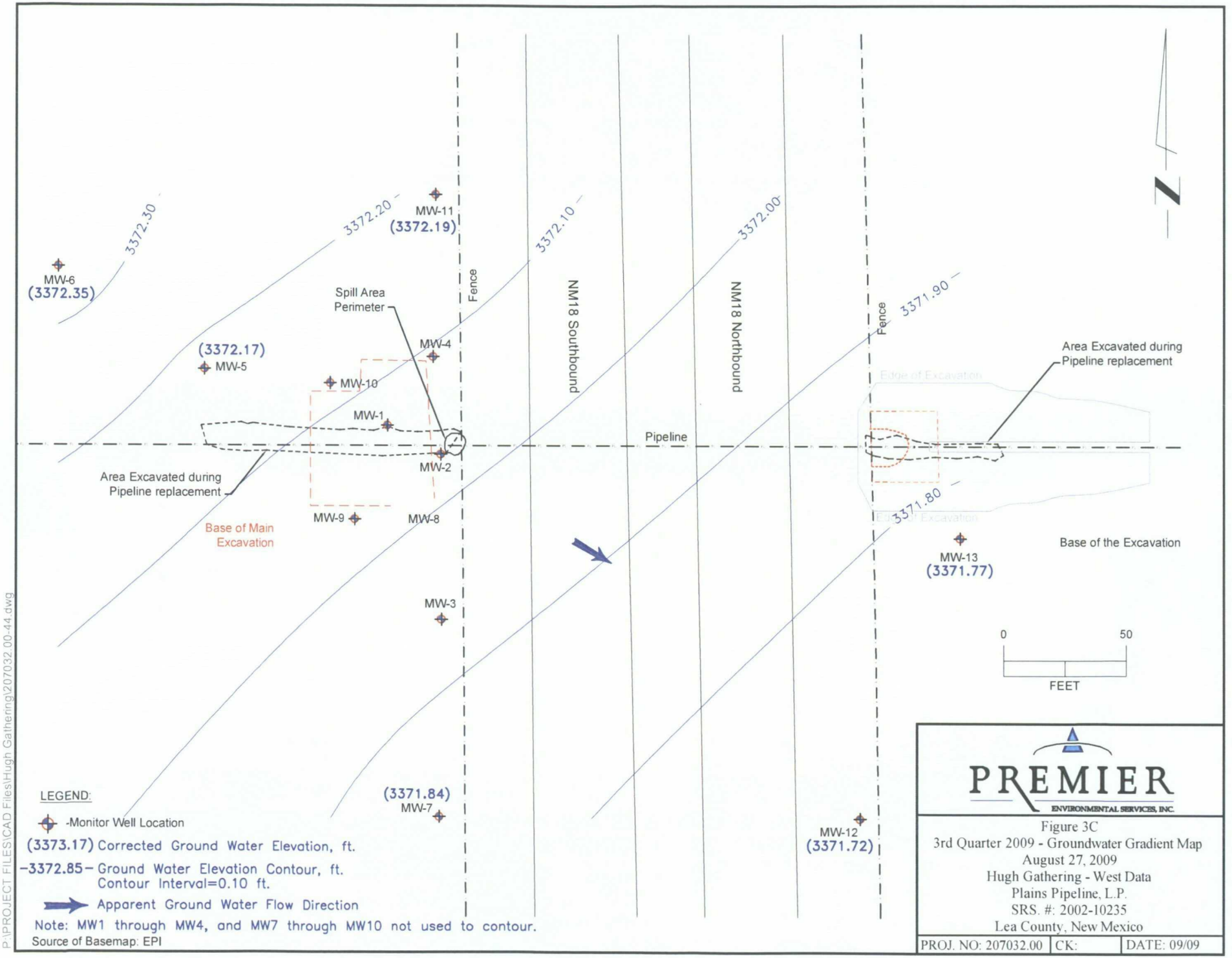
Figure 3B
2nd Quarter 2009 - Groundwater Gradient Map
May 20, 2009
Hugh Gathering - West Data
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 08/09



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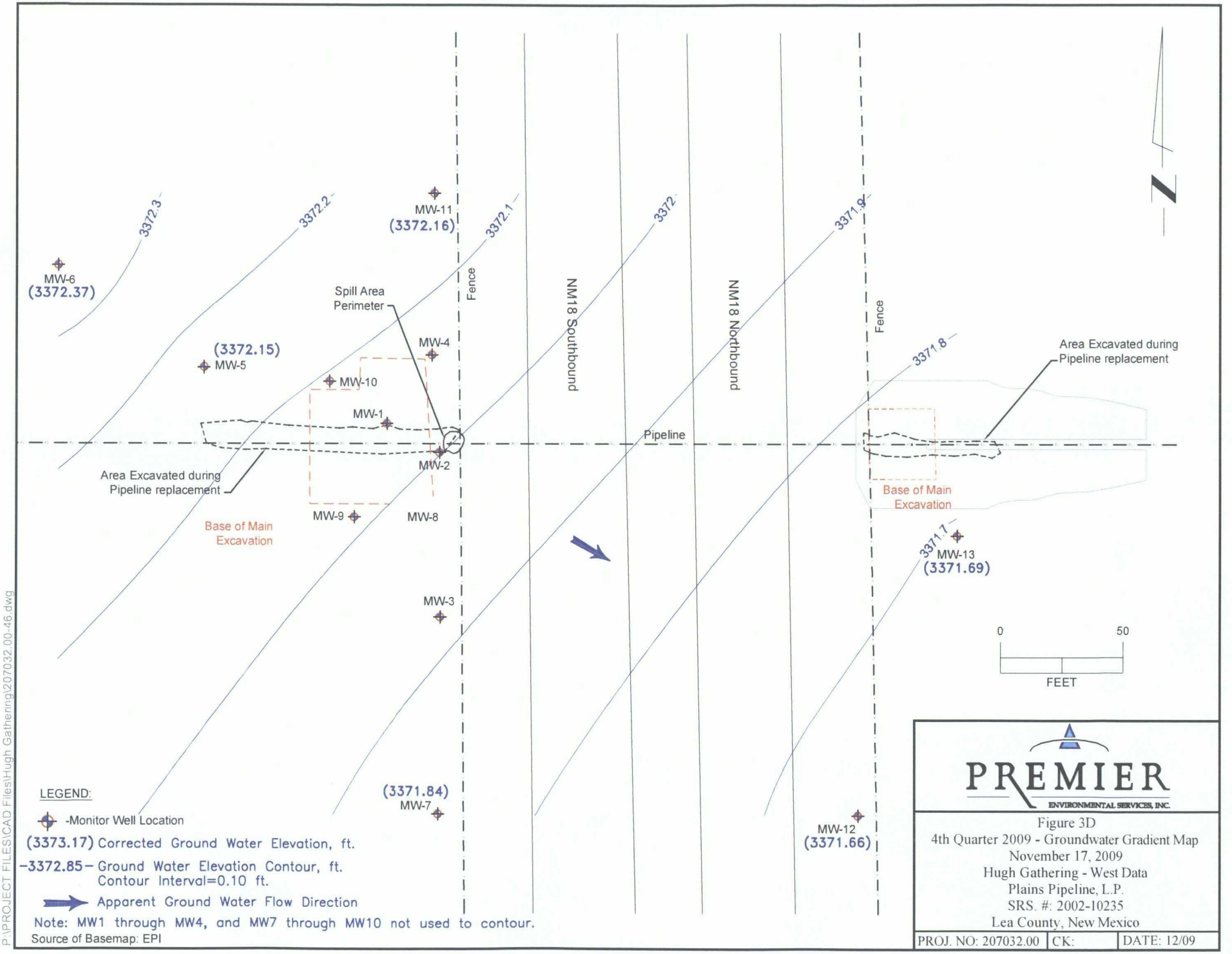
ENVIRONMENTAL SERVICES, INC.

Figure 3C
3rd Quarter 2009 - Groundwater Gradient Map
August 27, 2009
Hugh Gathering - West Data
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 09/09



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ENVIRONMENTAL SERVICES, INC.

Figure 3D
4th Quarter 2009 - Groundwater Gradient Map
November 17, 2009
Hugh Gathering - West Data
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 12/09

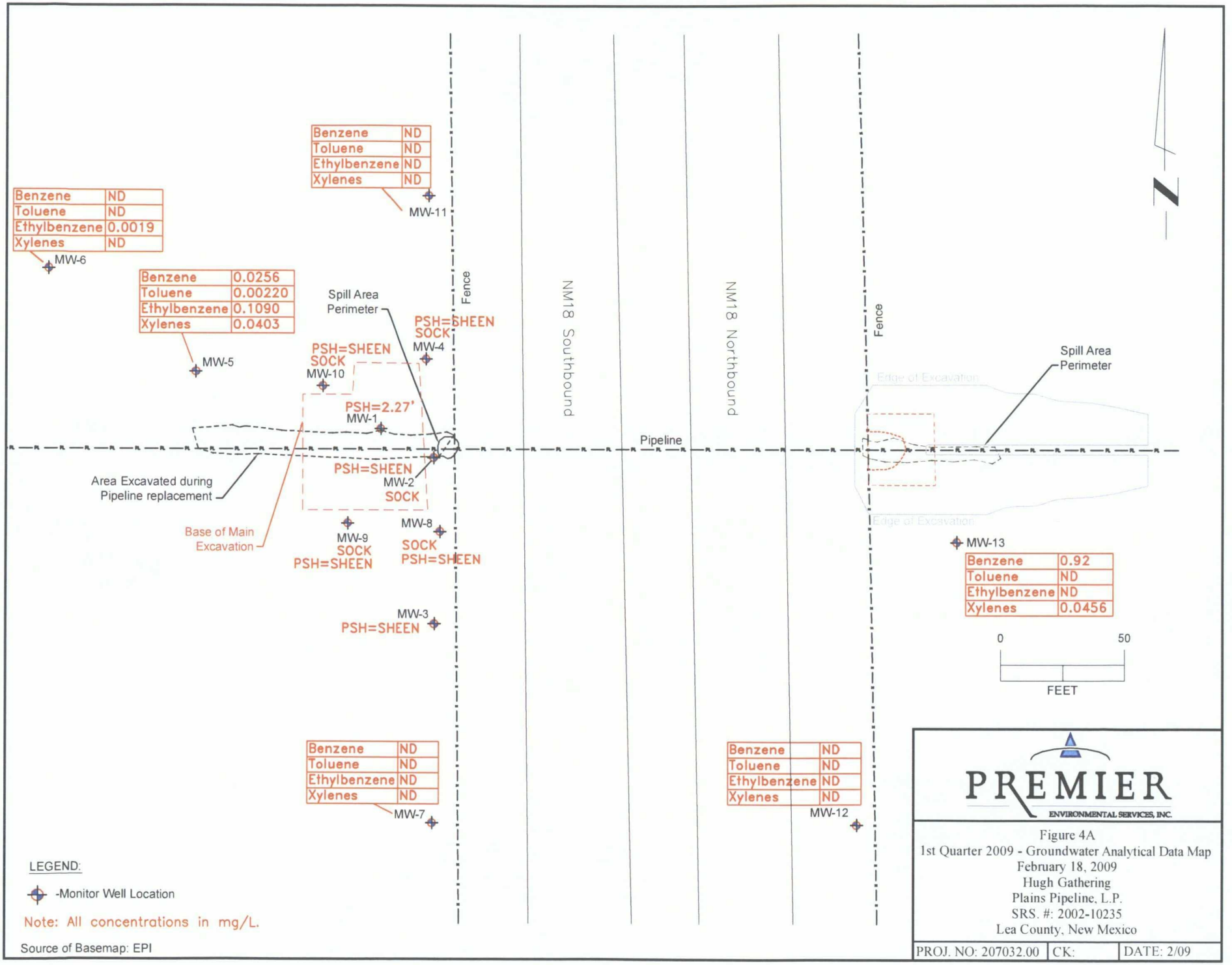
Benzene ND
Toluene ND
Ethylbenzene ND
Xylenes ND
MW-11
Benzene ND
Toluene ND
Ethylbenzene 0.0019
Xylenes ND
MW-6
Benzene 0.0256
Toluene 0.00220
Ethylbenzene 0.1090
Xylenes 0.0403
MW-5
Spill Area Perimeter
Fence
NM18 Southbound
NM18 Northbound
Fence
PSH=SHEEN SOCK
MW-4
PSH=SHEEN SOCK
MW-10
PSH=2.27'
MW-1
Pipeline
PSH=SHEEN
MW-2
SOCK
Area Excavated during Pipeline replacement
Base of Main Excavation
MW-9
SOCK
PSH=SHEEN
MW-8
SOCK
PSH=SHEEN
MW-3
PSH=SHEEN
Edge of Excavation
Spill Area Perimeter
Edge of Excavation
MW-13
Benzene 0.92
Toluene ND
Ethylbenzene ND
Xylenes 0.0456
0
50
FEET
Benzene ND
Toluene ND
Ethylbenzene ND
Xylenes ND
MW-7
Benzene ND
Toluene ND
Ethylbenzene ND
Xylenes ND
MW-12
LEGEND:
-Monitor Well Location
Note: All concentrations in mg/L.
Source of Basemap: EPI
P:\PROJECT FILES\CAD Files\Hugh Gathering\207032.00-38.dwg
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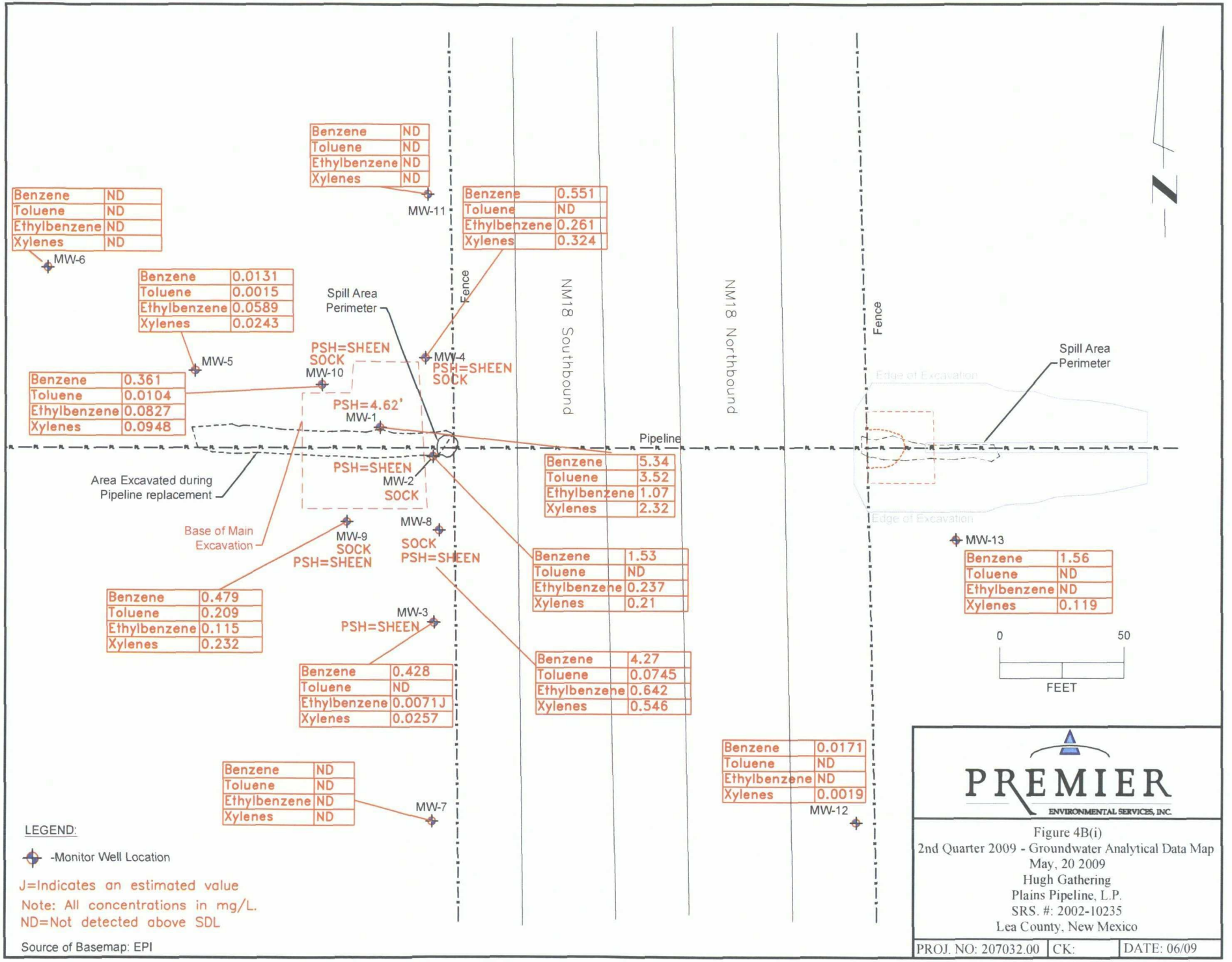
Figure 4A
1st Quarter 2009 - Groundwater Analytical Data Map
February 18, 2009
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico
PROJ. NO: 207032.00
CK:
DATE: 2/09



PREMIER ENVIRONMENTAL SERVICES, INC.

Figure 4B(i)
2nd Quarter 2009 - Groundwater Analytical Data Map
May, 20 2009
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 06/09

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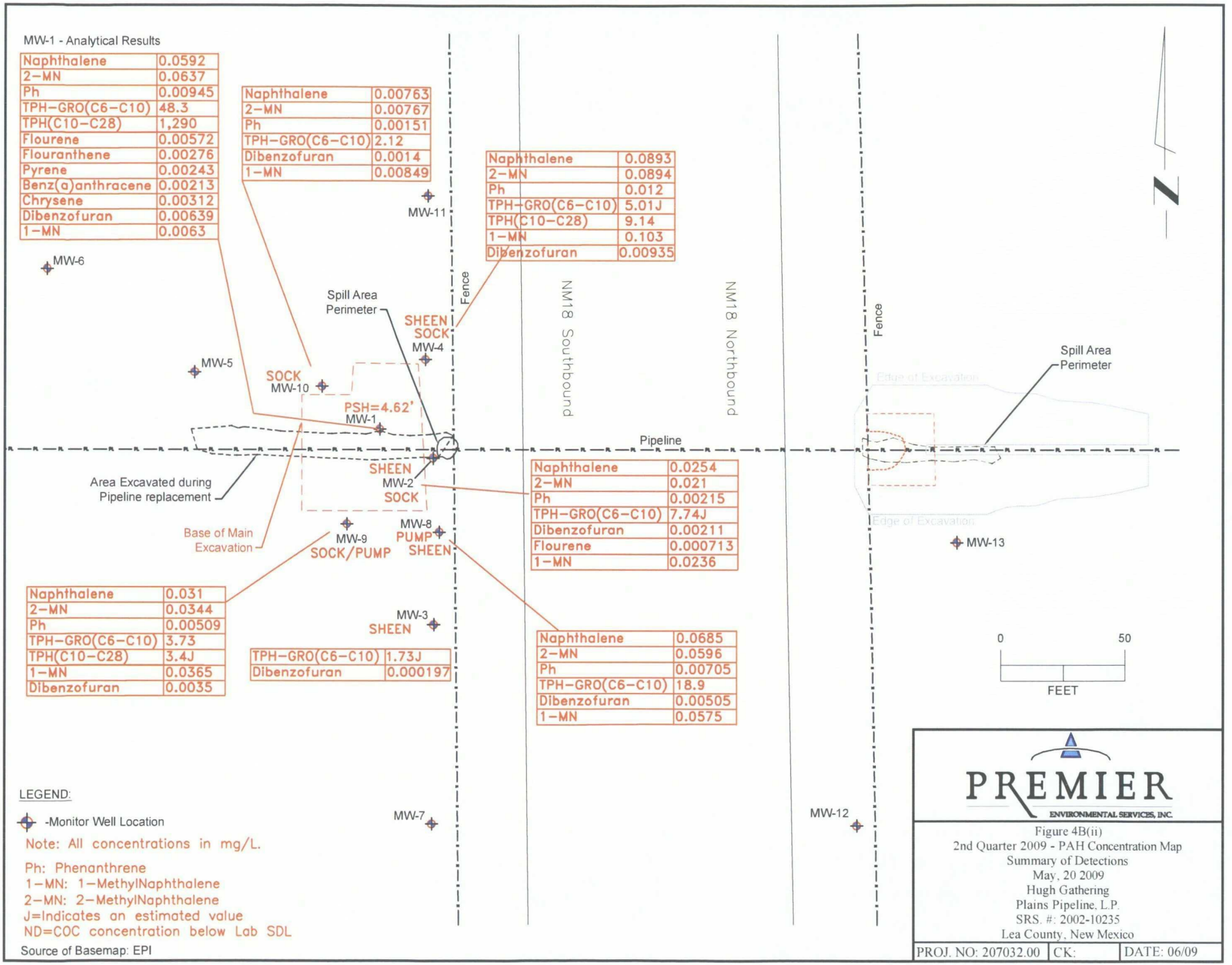
MW-1 - Analytical Results
Naphthalene 0.0592
2-MN 0.0637
Ph 0.00945
TPH-GRO(C6-C10) 48.3
TPH(C10-C28) 1,290
Flourene 0.00572
Flouranthene 0.00276
Pyrene 0.00243
Benz(a)anthracene 0.00213
Chrysene 0.00312
Dibenzofuran 0.00639
1-MN 0.0063
MW-6
Naphthalene 0.00763
2-MN 0.00767
Ph 0.00151
TPH-GRO(C6-C10) 2.12
Dibenzofuran 0.0014
1-MN 0.00849
MW-11
Naphthalene 0.0893
2-MN 0.0894
Ph 0.012
TPH-GRO(C6-C10) 5.01J
TPH(C10-C28) 9.14
1-MN 0.103
Dibenzofuran 0.00935
Spill Area Perimeter
Fence
SHEEN
SOCK
MW-4
MW-5
SOCK
MW-10
PSH=4.62'
MW-1
NM18 Southbound
NM18 Northbound
Fence
Spill Area Perimeter
Edge of Excavation
Pipeline
SHEEN
MW-2
SOCK
Area Excavated during Pipeline replacement
Naphthalene 0.0254
2-MN 0.021
Ph 0.00215
TPH-GRO(C6-C10) 7.74J
Dibenzofuran 0.00211
Flourene 0.000713
1-MN 0.0236
Base of Main Excavation
MW-9
SOCK/PUMP
MW-8
PUMP
SHEEN
Edge of Excavation
MW-13
Naphthalene 0.031
2-MN 0.0344
Ph 0.00509
TPH-GRO(C6-C10) 3.73
TPH(C10-C28) 3.4J
1-MN 0.0365
Dibenzofuran 0.0035
MW-3
SHEEN
TPH-GRO(C6-C10) 1.73J
Dibenzofuran 0.000197
Naphthalene 0.0685
2-MN 0.0596
Ph 0.00705
TPH-GRO(C6-C10) 18.9
Dibenzofuran 0.00505
1-MN 0.0575
0
50
FEET
LEGEND:
-Monitor Well Location
MW-7
MW-12
Note: All concentrations in mg/L.
Ph: Phenanthrene
1-MN: 1-MethylNaphthalene
2-MN: 2-MethylNaphthalene
J=Indicates an estimated value
ND=COC concentration below Lab SDL
Source of Basemap: EPI
P:\PROJECT FILES\CAD Files\Hugh Gathering\207032 00-42dwg
PREMIER
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Figure 4B(ii)
2nd Quarter 2009 - PAH Concentration Map
Summary of Detections
May, 20 2009
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico
PROJ. NO: 207032.00
CK:
DATE: 06/09

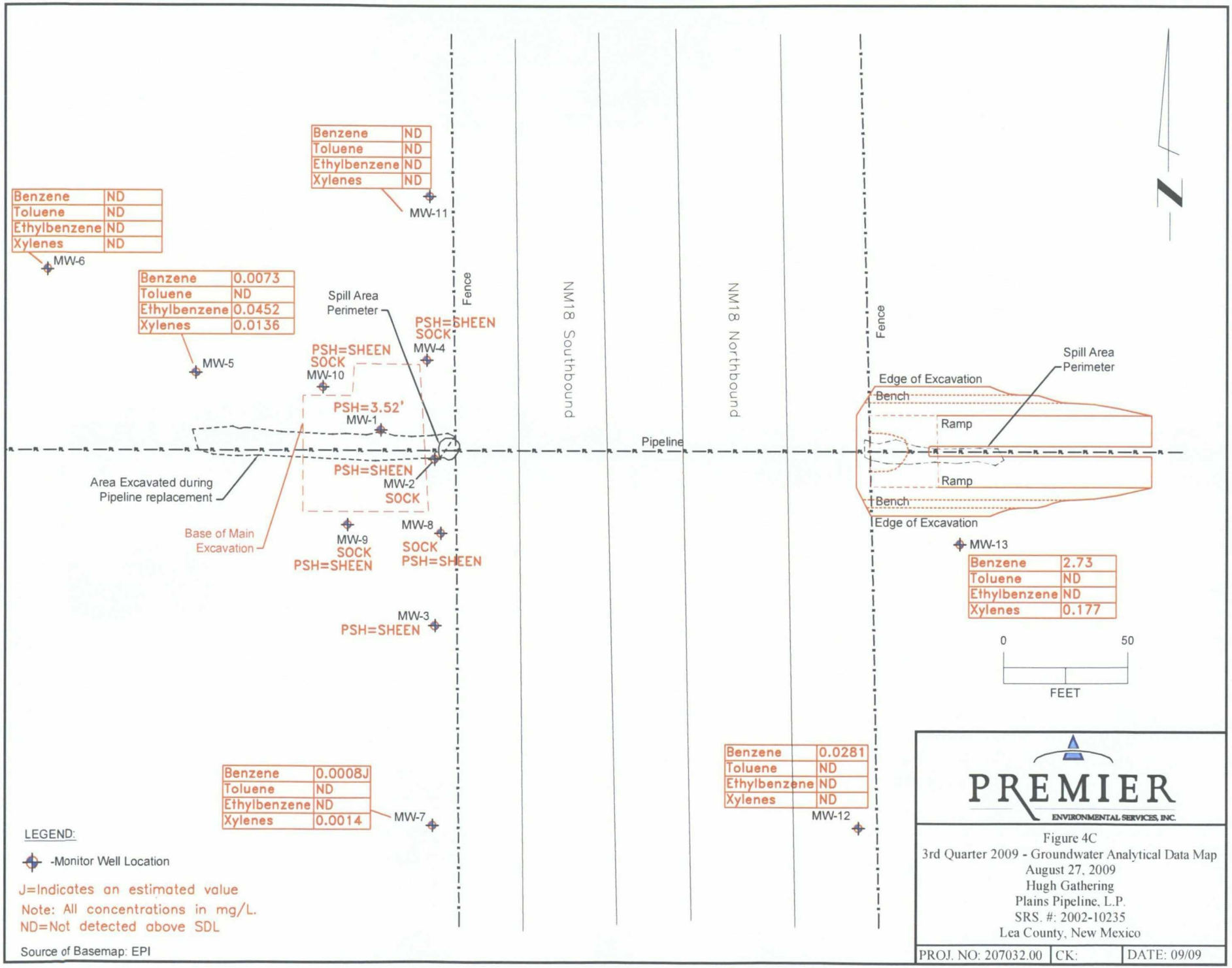

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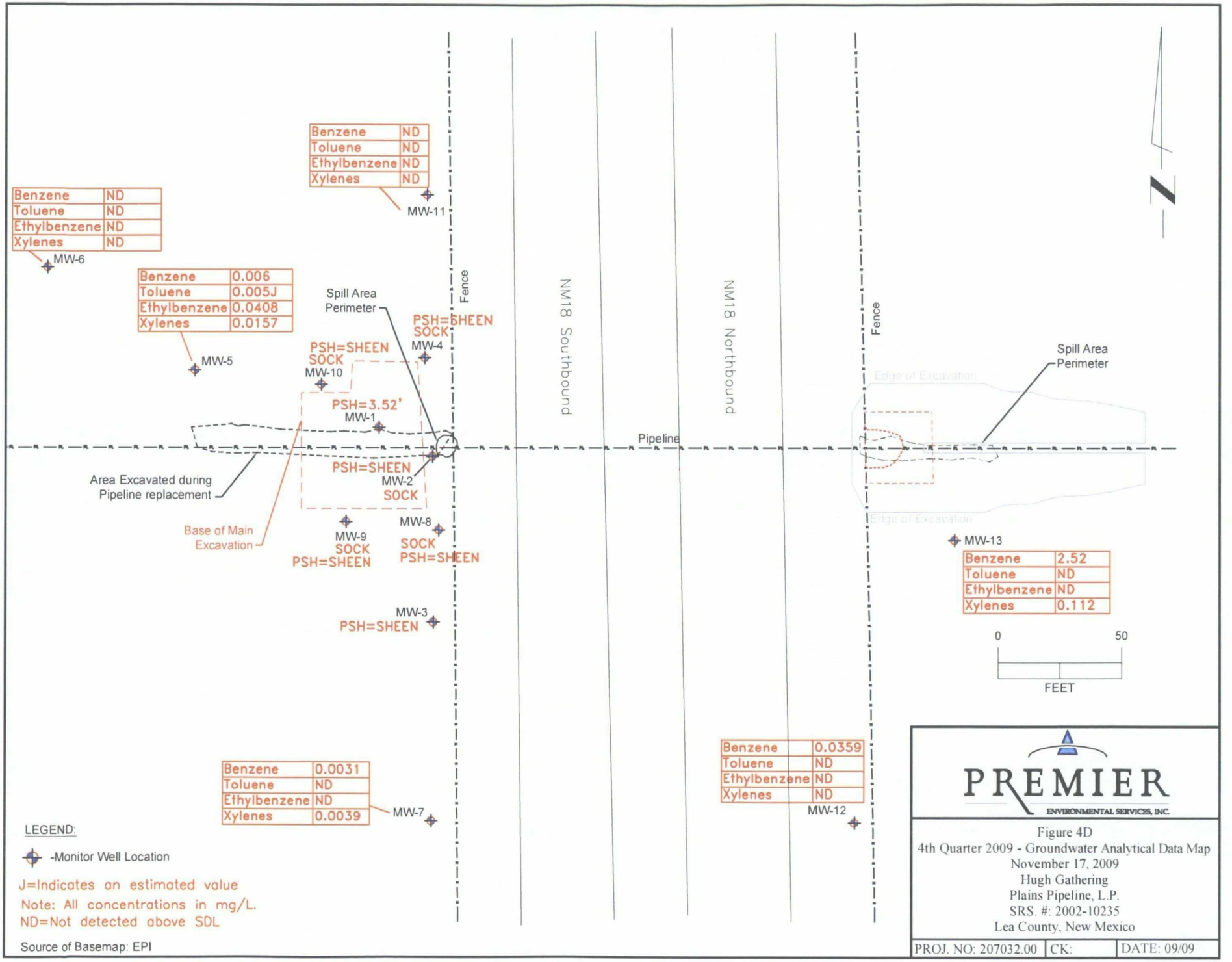
Figure 4C
3rd Quarter 2009 - Groundwater Analytical Data Map
August 27, 2009
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 09/09



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PREMIER
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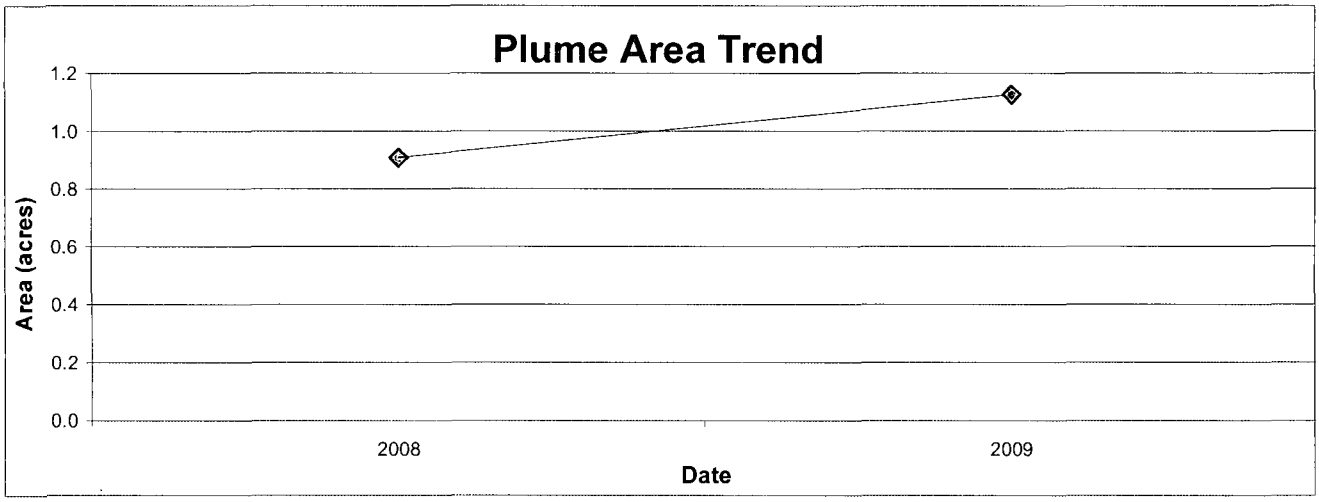
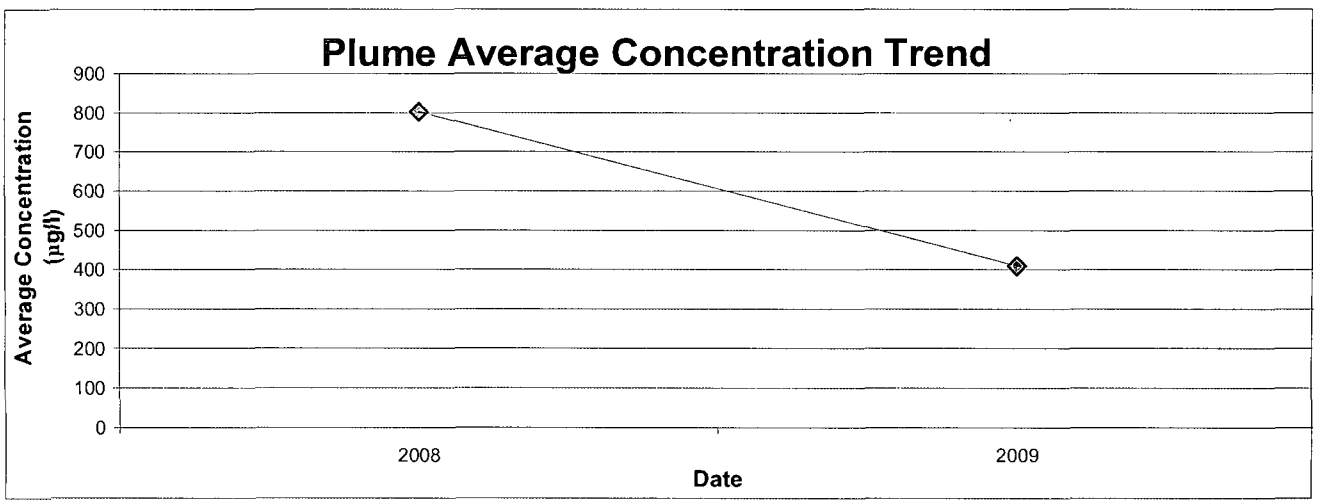
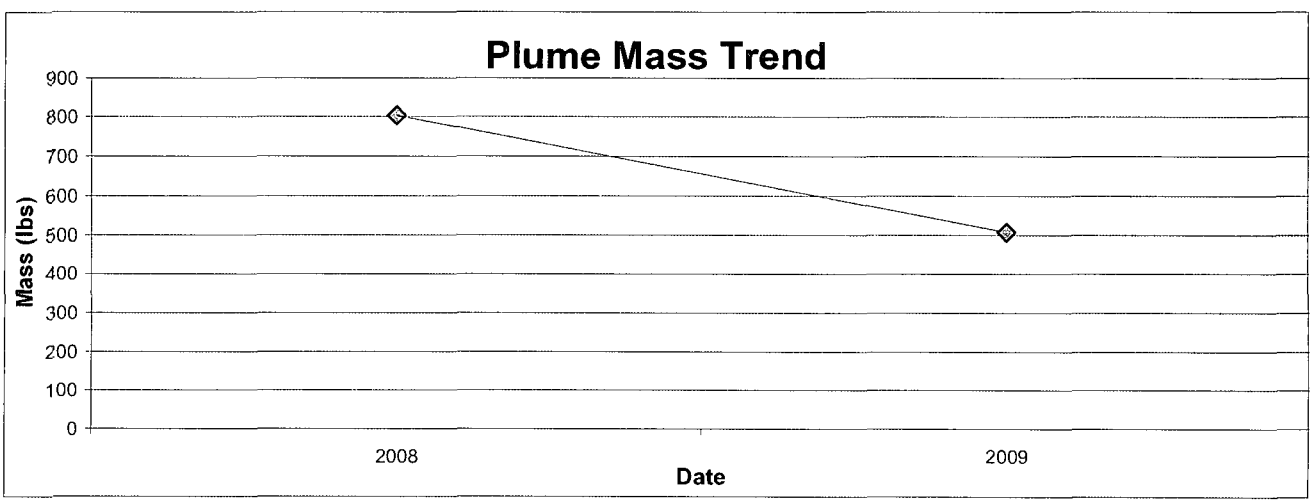
Figure 4D
4th Quarter 2009 - Groundwater Analytical Data Map
November 17, 2009
Hugh Gathering
Plains Pipeline, L.P.
SRS. #: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK:	DATE: 09/09







Summary of Plume Stability Characteristics

Date	Area (Acres)	Average Conc. (µg/l)	Mass (lbs)
2008	0.91	803	804
2009	1.13	410	508

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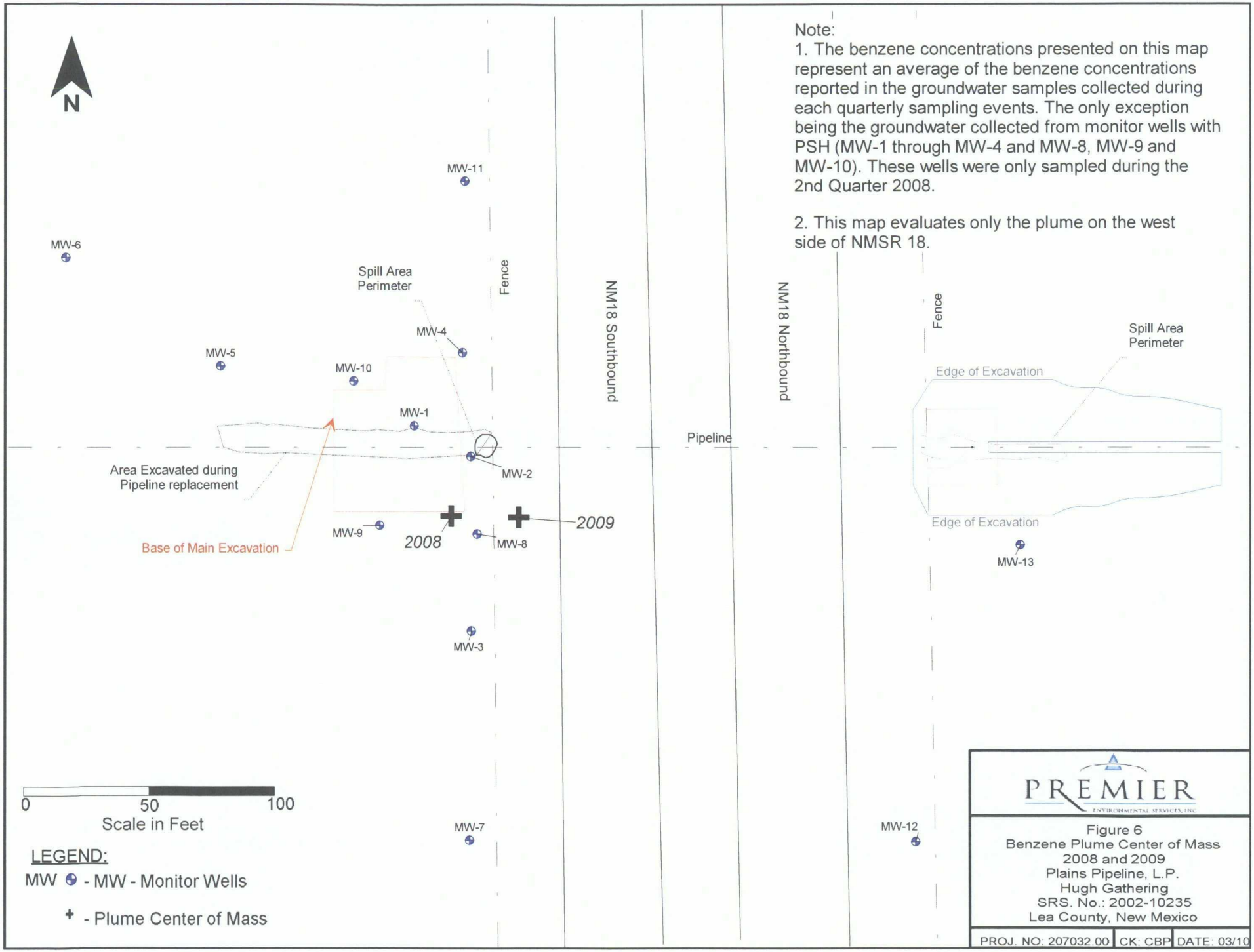
ENVIRONMENTAL SERVICES, INC

Figure 5
Plume Stability Analysis Summary
Plains Pipeline, L.P.
Hugh Gathering
SRS. No.: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK: CBP	DATE: 03/10



Note:

1. The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exception being the groundwater collected from monitor wells with PSH (MW-1 through MW-4 and MW-8, MW-9 and MW-10). These wells were only sampled during the 2nd Quarter 2008.

2. This map evaluates only the plume on the west side of NMSR 18.

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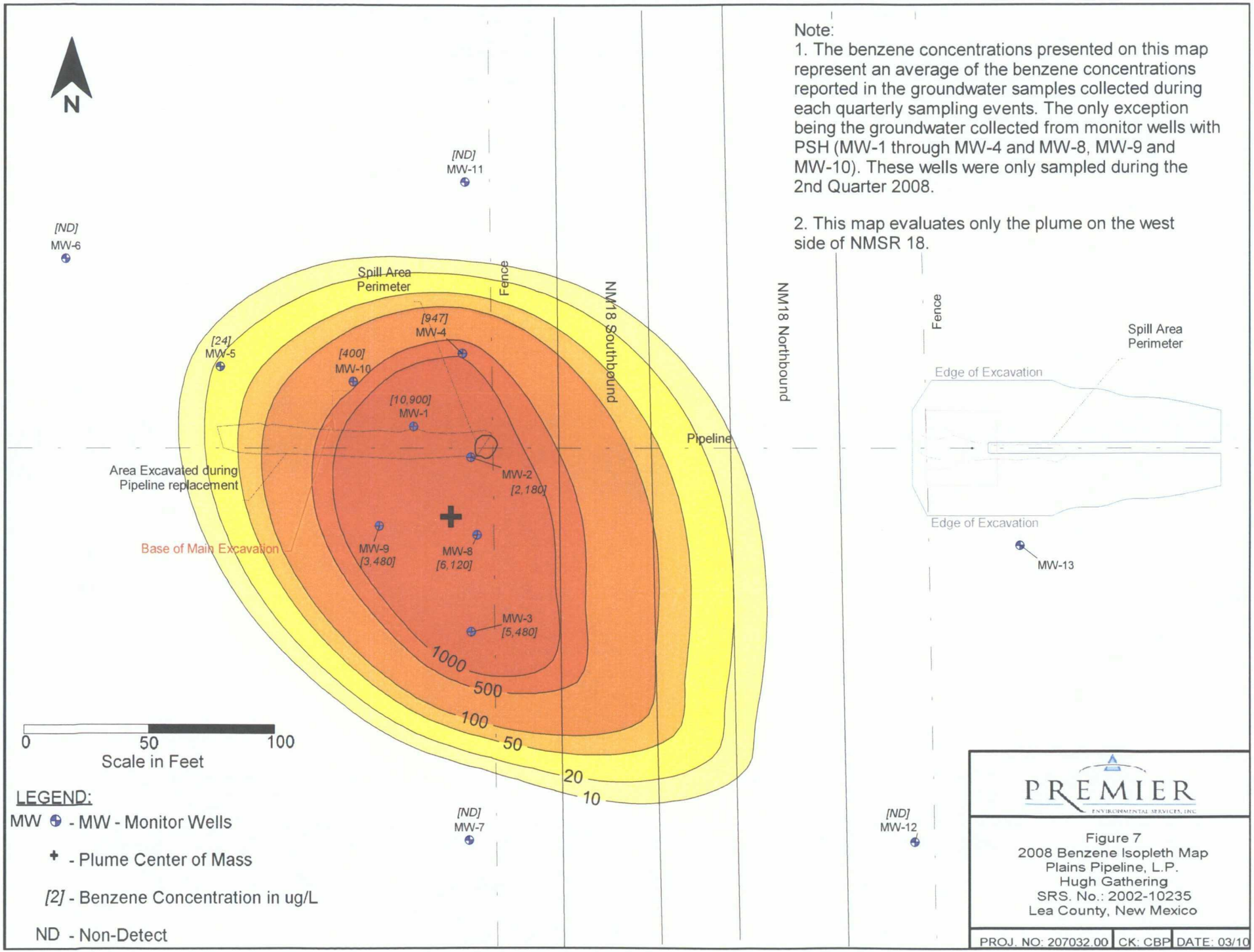
Figure 6
Benzene Plume Center of Mass
2008 and 2009
Plains Pipeline, L.P.
Hugh Gathering
SRS. No.: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK: CBP	DATE: 03/10



Note:

1. The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exception being the groundwater collected from monitor wells with PSH (MW-1 through MW-4 and MW-8, MW-9 and MW-10). These wells were only sampled during the 2nd Quarter 2008.

2. This map evaluates only the plume on the west side of NMSR 18.

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Figure 7
2008 Benzene Isopleth Map
Plains Pipeline, L.P.
Hugh Gathering
SRS. No.: 2002-10235
Lea County, New Mexico

PROJ. NO: 207032.00	CK: CBP	DATE: 03/10

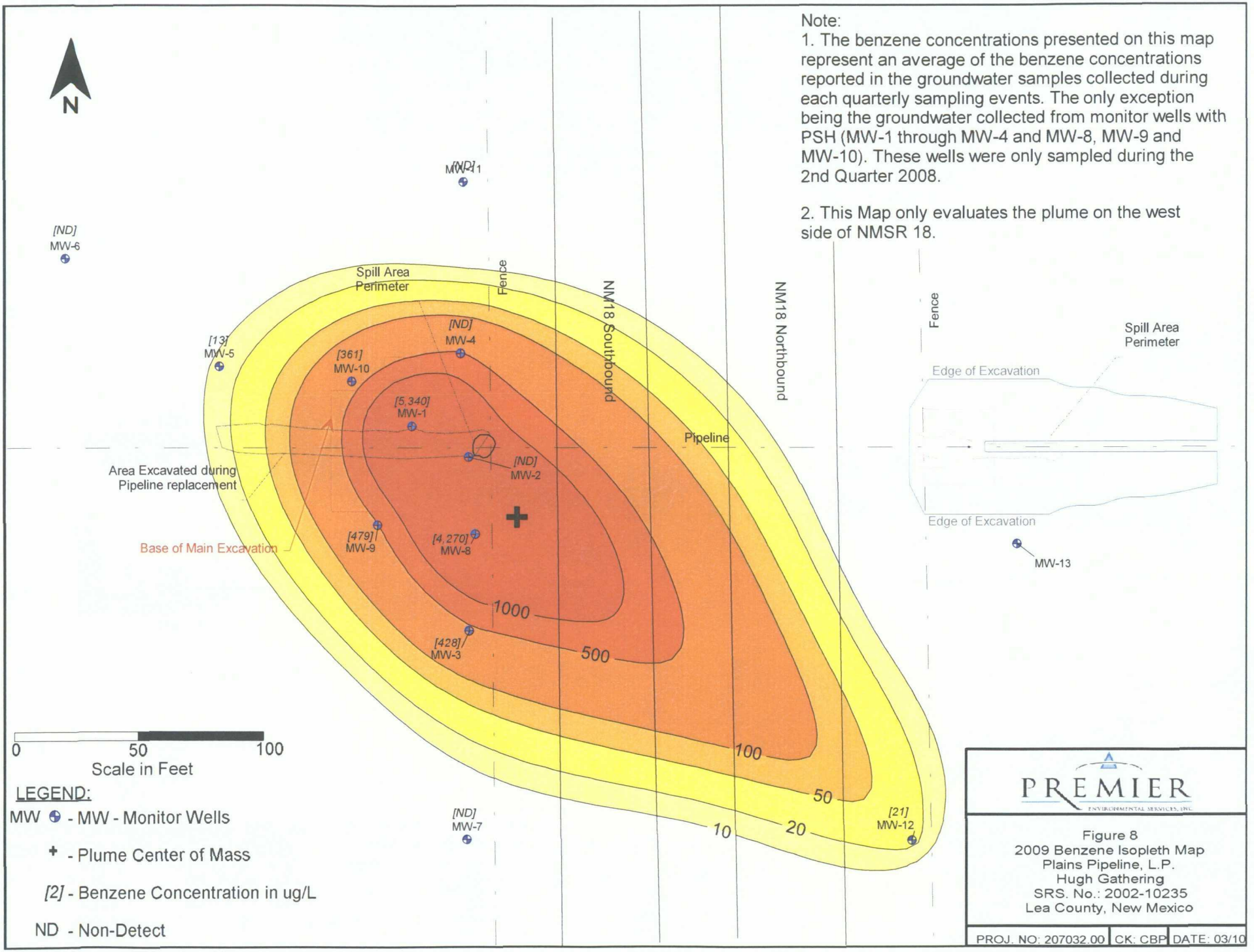
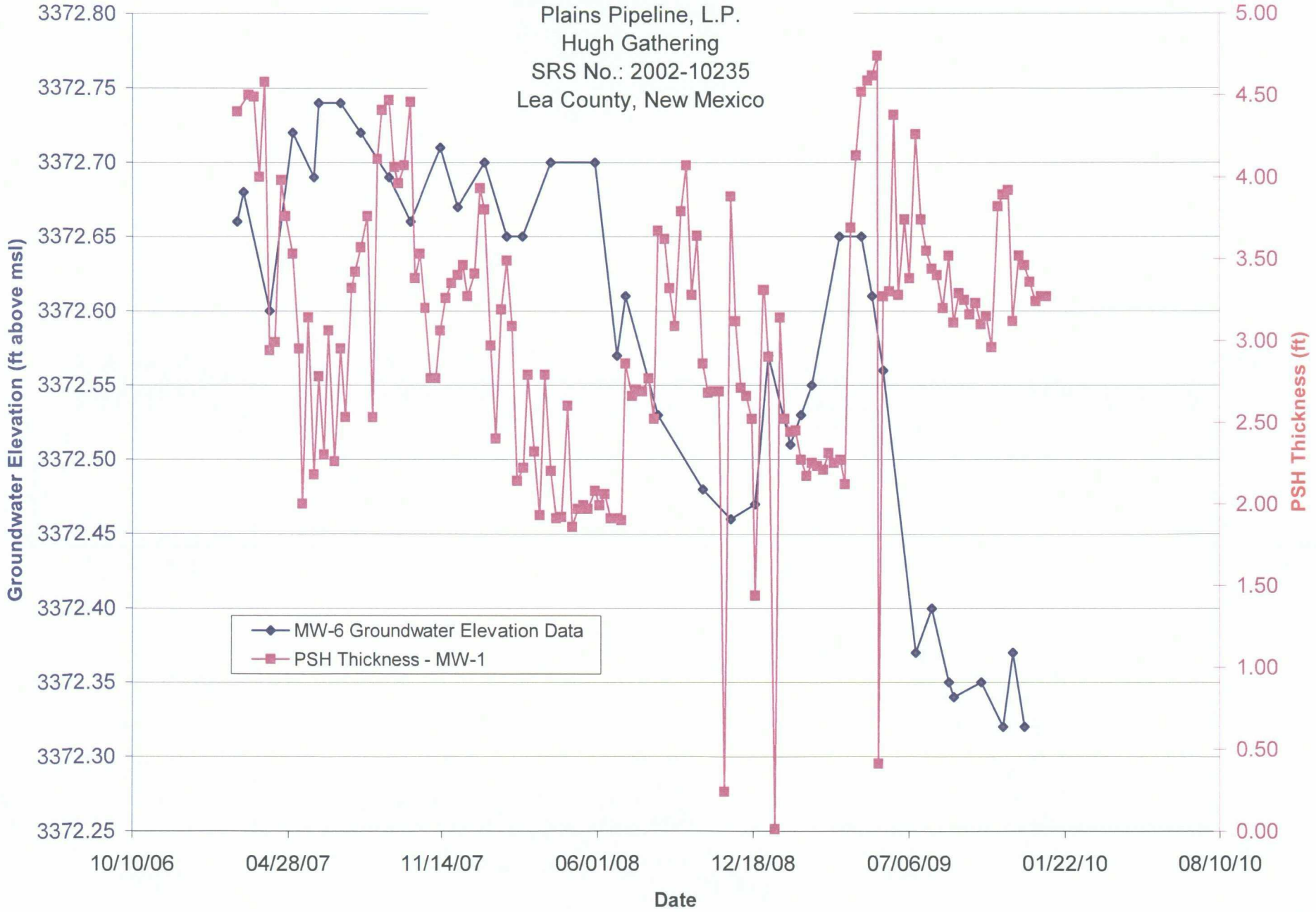

Note:
1. The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exception being the groundwater collected from monitor wells with PSH (MW-1 through MW-4 and MW-8, MW-9 and MW-10). These wells were only sampled during the 2nd Quarter 2008.
2. This Map only evaluates the plume on the west side of NMSR 18.
N
[ND] MW-11
[ND] MW-6
Spill Area Perimeter
Fence
NM18 Southbound
NM18 Northbound
[13] MW-5
[ND] MW-4
[361] MW-10
[5,340] MW-1
Pipeline
[ND] MW-2
Area Excavated during Pipeline replacement
Base of Main Excavation
[479] MW-9
[4,270] MW-8
1000
500
100
50
20
10
[428] MW-3
[ND] MW-7
[21] MW-12
Fence
Spill Area Perimeter
Edge of Excavation
Edge of Excavation
MW-13
0
50
100
Scale in Feet
LEGEND:
MW - MW - Monitor Wells
+ - Plume Center of Mass
[2] - Benzene Concentration in ug/L
ND - Non-Detect
PREMIER
ENVIRONMENTAL SERVICES, INC.
Figure 8
2009 Benzene Isopleth Map
Plains Pipeline, L.P.
Hugh Gathering
SRS. No.: 2002-10235
Lea County, New Mexico
PROJ. NO: 207032.00
CK: CBP
DATE: 03/10

Figure 9
Water Elevation and PSH Thickness Data
Plains Pipeline, L.P.
Hugh Gathering
SRS No.: 2002-10235
Lea County, New Mexico



APPENDIX B

Tables

Table 1 – 2009 Groundwater Elevation and PSH Recovery Data
Table 2 – Historical Groundwater Elevation and PSH Recovery Data
(Available on CD attached to back cover)
Table 3 – Groundwater Sample Analytical Results
Table 4 – BTEX Groundwater Sample Analytical Results for Wells with PSH
Table 5 – Groundwater Analytical Results for PAHs
Table 6 – 2009 PSH and Dissolved Phase Recovery Data

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	01/02/09	3429.95	NG	57.08	60.39	3.31	Pumped	5	20	3372.37
	01/02/09	3429.95	NG	58.24	58.25	0.01	ND	ND	ND	3371.71
	01/07/09	3429.95	69.59	57.07	59.97	2.90	Pump Broken Unable to recover			3372.45
	01/15/09	3429.95	69.59	56.98	60.82	3.84	Pump	5	20	3372.39
	01/15/09	3429.95	69.59	58.09	58.10	0.01	ND	ND	ND	3371.86
	01/22/09	3429.95	69.59	57.05	60.19	3.14	Pump/No sock	5	20	3372.43
	01/22/09	3429.95	69.59	58.11	58.11	0.00	ND	ND	ND	3371.84
	01/28/09	3429.95	69.59	57.16	59.68	2.52	Pump	4	20	3372.41
	01/28/09	3429.95	69.59	59.97	59.98	0.01	ND	ND	ND	3369.98
	02/04/09	3429.95	69.59	57.19	59.63	2.44	Pump	2.5	26.5	3372.39
	02/04/09	3429.95	69.59	57.99	57.99	0.00	ND	ND	ND	3371.96
	02/11/09	3429.95	69.59	57.21	59.66	2.45	Pump	2	23	3372.37
	02/11/09	3429.95	69.59	58.14	58.15	0.01	ND	ND	ND	3371.81
	02/18/09	3429.95	69.59	57.21	59.48	2.27	Pump	1	24	3372.40
	02/18/09	3429.95	69.59	58.56	58.56	0.00	ND	ND	ND	3371.39
	02/25/09	3429.95	69.59	57.21	59.38	2.17	Pump	1	19	3372.41
	02/25/09	3429.95	69.59	58.81	58.82	0.01	ND	ND	ND	3371.14
	03/04/09	3429.95	69.59	57.18	59.43	2.25	Pump	1	26	3372.43
	03/04/09	3429.95	69.59	59.28	59.28	0.00	ND	ND	ND	3370.67
	03/11/09	3429.95	69.59	57.25	59.48	2.23	Pump	0.75	19.75	3372.37
	03/11/09	3429.95	69.59	59.02	59.03	0.01	ND	ND	ND	3370.93
	03/18/09	3429.95	69.59	57.20	59.41	2.21	Pump	0.75	19.25	3372.42
	03/18/09	3429.95	69.59	59.81	59.82	0.01	ND	ND	ND	3370.14
	03/25/09	3429.95	69.59	57.16	59.47	2.31	Pump	4.5	20.5	3372.44
	03/25/09	3429.95	69.59	59.99	59.99	0.00	ND	ND	ND	3369.96
	04/01/09	3429.95	69.59	57.17	59.42	2.25	Pump	4.5	21.5	3372.44
	04/01/09	3429.95	69.59	60.13	60.13	0.00	ND	ND	ND	3369.82
	04/09/09	3429.95	69.59	57.12	59.39	2.27	Pump	3	21	3372.49
	04/09/09	3429.95	69.59	60.20	60.21	0.01	ND	ND	ND	3369.75
	04/15/09	3429.95	69.59	57.22	59.34	2.12	ND	ND	ND	3372.41
	04/22/09	3429.95	69.59	56.96	60.65	3.69	ND	ND	ND	3372.44
	04/29/09	3429.95	69.59	56.87	61.00	4.13	ND	ND	ND	3372.46
	05/06/09	3429.95	69.59	56.79	61.31	4.52	ND	ND	ND	3372.48
	05/14/09	3429.95	69.59	56.87	61.46	4.59	ND	ND	ND	3372.39
	05/20/09	3429.95	69.59	56.81	61.43	4.62	ND	ND	ND	3372.45
	05/27/09	3429.95	69.59	56.83	61.57	4.74	Pump	17	40	3372.41
	05/27/09	3429.95	69.59	60.51	60.51	0.00	ND	ND	ND	3369.44
	05/28/09	3429.95	69.59	57.52	57.93	0.41	Pump	1	25	3372.37
	06/03/09	3429.95	69.59	57.06	60.33	3.27	Pump	2	23	3372.40
	06/03/09	3429.95	69.59	60.93	60.93	0.00	ND	ND	ND	3369.02
	06/11/09	3429.95	69.59	58.10	61.40	3.30	Pump	2	19	3371.36
	06/11/09	3429.95	69.59	60.59	60.59	0.00	ND	ND	ND	3369.36
	06/17/09	3429.95	69.59	56.94	61.32	4.38	Pump	4	16	3372.35
	06/17/09	3429.95	69.59	59.00	59.00	0.00	ND	ND	ND	3370.95
	06/23/09	3429.95	69.59	57.15	60.43	3.28	Pump	2	18	3372.31
	06/23/09	3429.95	69.59	59.20	59.20	0.00	ND	ND	ND	3370.75
	07/01/09	3429.95	69.59	57.07	60.81	3.74	Pump	3	22	3372.32
	07/01/09	3429.95	69.59	60.02	60.02	0.00	ND	ND	ND	3369.93
	07/07/09	3429.95	69.59	57.12	60.50	3.38	Pump	3	17	3372.32
	07/07/09	3429.95	69.59	61.32	61.32	0.00	ND	ND	ND	3368.63
	07/15/09	3429.95	69.59	57.04	61.30	4.26	Pump	3	27	3372.27
	07/15/09	3429.95	69.59	61.35	61.35	0.00	ND	ND	ND	3368.60
	07/22/09	3429.95	69.59	57.11	60.85	3.74	Pump	4.5	15.5	3372.28
	07/29/09	3429.95	69.59	57.20	60.75	3.55	ND	ND	ND	3372.22
	07/29/09	3429.95	69.59	61.46	61.46	0.00	Pump	3	22	3368.49
	08/05/09	3429.95	69.59	57.13	60.57	3.44	Pump	4	16	3372.30
	08/05/09	3429.95	69.59	61.29	61.29	0.00	ND	ND	ND	3368.66
	08/12/09	3429.95	69.59	57.14	60.54	3.40	Pump	4.5	15.5	3372.30

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	08/12/09	3429.95	69.59	58.97	58.97	0.00	ND	ND	ND	3370.98
	08/19/09	3429.95	69.59	57.17	60.37	3.20	Pump	4	16	3372.30
	08/19/09	3429.95	69.59	60.50	60.50	0.00	ND	ND	ND	3369.45
	08/27/09	3429.95	69.59	57.14	60.66	3.52	Pump	3	23	3372.28
	08/27/09	3429.95	69.59	58.37	58.37	0.00	ND	ND	ND	3371.58
	09/02/09	3429.95	69.59	57.25	60.36	3.11	Pump	4.5	15.5	3372.23
	09/02/09	3429.95	69.59	58.91	58.91	0.00	ND	ND	ND	3371.04
	09/09/09	3429.95	69.59	57.17	60.46	3.29	Pump	4.5	15.5	3372.29
	09/09/09	3429.95	69.59	58.60	58.60	0.00	ND	ND	ND	3371.35
	09/16/09	3429.95	69.59	57.26	60.51	3.25	Pump	4.5	15.5	3372.20
	09/16/09	3429.95	69.59	58.21	58.21	0.00	ND	ND	ND	3371.74
	09/23/09	3429.95	69.59	57.31	60.47	3.16	Pump	4	21	3372.17
	09/23/09	3429.95	69.59	58.07	58.07	0.00	ND	ND	ND	3371.88
	09/30/09	3429.95	69.59	57.24	60.47	3.23	Pump	2	18	3372.23
	09/30/09	3429.95	69.59	62.10	62.10	0.00	AM	ND	ND	3367.85
	09/30/09	3429.95	69.59	57.73	57.80	0.07	Pump	0.25	9.75	3372.21
	09/30/09	3429.95	69.59	61.80	61.80	0.00	PM	ND	ND	3368.15
	10/07/09	3429.95	69.59	57.33	60.43	3.10	Pump	2	18	3372.16
	10/07/09	3429.95	69.59	58.31	58.31	0.00	AM	ND	ND	3371.64
	10/07/09	3429.95	69.59	57.76	57.82	0.06	Pump	0.25	9.75	3372.18
	10/07/09	3429.95	69.59	58.23	58.23	0.00	PM	ND	ND	3371.72
	10/14/09	3429.95	69.59	57.30	60.45	3.15	Pump	2	18	3372.18
	10/14/09	3429.95	69.59	58.28	58.28	0.00	AM	ND	ND	3371.67
	10/14/09	3429.95	69.59	57.76	57.83	0.07	Pump	0.25	9.75	3372.18
	10/14/09	3429.95	69.59	58.57	58.57	0.00	PM	ND	ND	3371.38
	10/21/09	3429.95	69.59	57.35	60.31	2.96	Pump Broken Unable to recover			3372.16
	10/29/09	3429.95	69.59	57.20	61.02	3.82	Pump Broken Unable to recover			3372.18
	11/04/09	3429.95	69.59	57.23	61.12	3.89	Pump Broken Unable to recover			3372.14
	11/11/09	3429.95	69.59	57.12	61.04	3.92	Pump	2	18	3372.24
	11/11/09	3429.95	69.59	58.33	58.33	0.00	AM	ND	ND	3371.62
	11/11/09	3429.95	69.59	57.20	61.02	3.82	Pump	0.25	9.75	3372.18
	11/11/09	3429.95	69.59	57.23	61.12	3.89	pm	ND	ND	3372.14
	11/17/09	3429.95	69.59	57.41	60.53	3.12	Pump	2.5	17.5	3372.07
	11/17/09	3429.95	69.59	58.43	58.43	0.00	ND	ND	ND	3371.52
	11/25/09	3429.95	69.59	57.25	60.77	3.52	Pump	5.25	19.75	3372.17
	11/25/09	3429.95	69.59	59.44	59.44	0.00	ND	ND	ND	3370.51
	12/02/09	3429.95	69.59	57.30	60.76	3.46	Pump	5	35	3372.13
	12/02/09	3429.95	69.59	60.61	60.61	0.00	ND	ND	ND	3369.34
	12/09/09	3429.95	69.59	57.29	60.65	3.36	Pump	5	35	3372.16
	12/09/09	3429.95	69.59	59.21	59.21	0.00	ND	ND	ND	3370.74
	12/16/09	3429.95	69.59	57.31	60.55	3.24	Pump	5	20	3372.15
	12/16/09	3429.95	69.59	59.83	59.83	0.00	ND	ND	ND	3370.12
	12/23/09	3429.95	69.59	57.26	60.53	3.27	Pump	4.5	15.5	3372.20
	12/23/09	3429.95	69.59	59.85	59.85	0.00	ND	ND	ND	3370.10
	12/30/09	3429.95	69.59	57.31	60.58	3.27	Pump	5	15	3372.15
	12/30/09	3429.95	69.59	59.15	59.15	0.00	ND	ND	ND	3370.80
MW-2	01/02/09	3429.97	71.75	57.76	57.76	0.00	Sock	ND	ND	3372.21
	01/07/09	3429.97	71.79	57.73	57.73	0.00	Sock	ND	ND	3372.24
	01/15/09	3429.97	71.79	57.79	57.79	0.00	Sock	ND	ND	3372.18
	01/22/09	3429.97	71.79	57.69	57.69	0.00	New Sock	ND	ND	3372.28
	01/28/09	3429.97	71.79	57.76	57.76	0.00	Sock	ND	ND	3372.21
	02/04/09	3429.97	71.71	57.69	57.69	0.00	Sock	ND	ND	3372.28
	02/04/09	3429.97	71.71	57.72	57.72	0.00	Sock	ND	ND	3372.25
	02/18/09	3429.97	71.71	57.69	57.69	0.00	Pump/Sock	0.00	18.00	3372.28
	02/18/09	3429.97	71.71	58.07	58.07	0.00	ND	ND	ND	3371.90
	02/25/09	3429.97	71.71	57.66	57.66	0.00	Sock	ND	ND	3372.31

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Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-2	03/04/09	3429.97	71.55	57.69	57.69	0.00	Sock	ND	ND	3372.28
	03/11/09	3429.97	71.55	57.73	57.73	0.00	Flip Sock/Pump	0.00	20.00	3372.24
	03/11/09	3429.97	71.55	58.27	58.27	0.00	ND	ND	ND	3371.70
	03/18/09	3429.97	71.55	57.65	57.65	0.00	Sock	ND	ND	3372.32
	03/25/09	3429.97	71.55	57.67	57.67	0.00	Sock/Pump	0.00	15.00	3372.30
	03/25/09	3429.97	71.55	58.33	58.33	0.00	ND	ND	ND	3371.64
	04/01/09	3429.97	71.55	57.63	57.63	0.00	Sock	ND	ND	3372.34
	04/08/09	3429.97	71.55	57.68	57.68	0.00	Sock	ND	ND	3372.29
	04/15/09	3429.97	71.55	57.68	57.68	0.00	Sock	ND	ND	3372.29
	04/22/09	3429.97	71.55	57.68	57.68	0.00	Sock	ND	ND	3372.29
	04/29/09	3429.97	71.55	57.64	57.64	0.00	Sock	ND	ND	3372.33
	05/06/09	3429.97	71.55	57.64	57.64	0.00	Sock	ND	ND	3372.33
	05/06/09	3429.97	71.55	58.28	58.28	0.00	Sock	0.00	15.00	3371.69
	05/14/09	3429.97	71.55	57.76	57.76	0.00	Sock	ND	ND	3372.21
	05/20/09	3429.97	71.55	57.66	57.66	0.00	Sock	ND	ND	3372.31
	05/27/09	3429.97	71.55	57.77	57.77	0.00	Sock	0.00	28.00	3372.20
	05/27/09	3429.97	71.55	58.04	58.04	0.00	Sock	ND	ND	3371.93
	06/03/09	3429.97	71.55	57.70	57.70	0.00	Sock	ND	ND	3372.27
	06/11/09	3429.97	71.55	57.73	57.73	0.00	Sock	ND	ND	3372.24
	06/17/09	3429.97	71.55	57.83	57.83	0.00	Sock	ND	ND	3372.14
	06/23/09	3429.97	71.55	57.80	57.80	0.00	Sock	0.00	10.00	3372.17
	07/01/09	3429.97	71.55	57.80	57.80	0.00	Sock	ND	ND	3372.17
	07/07/09	3429.97	71.55	57.79	57.79	0.00	Sock	0.00	10.00	3372.18
	07/07/09	3429.97	71.75	59.30	59.30	0.00	Sock	ND	ND	3370.67
	07/15/09	3429.97	71.75	57.84	57.84	0.00	Sock	ND	ND	3372.13
	07/22/09	3429.97	71.75	57.92	57.92	0.00	ND	0.00	10.00	3372.05
	07/22/09	3429.97	71.75	58.37	58.37	0.00	ND	ND	ND	3371.60
	07/29/09	3429.97	71.75	57.87	57.87	0.00	ND	ND	ND	3372.10
	08/05/09	3429.97	71.75	57.87	57.87	0.00	new sock	ND	ND	3372.10
	08/12/09	3429.97	71.75	57.89	57.89	0.00	Pump	0.00	10.00	3372.08
	08/12/09	3429.97	71.75	61.54	61.54	0.00	ND	ND	ND	3368.43
	08/19/09	3429.97	71.75	57.90	57.90	0.00	Flip Sock	ND	ND	3372.07
	08/27/09	3429.97	71.75	57.95	57.95	0.00	ND	ND	ND	3372.02
	09/02/09	3429.97	71.75	57.92	57.92	0.00	ND	ND	ND	3372.05
	09/08/09	3429.97	71.75	57.93	57.93	0.00	Pump	Sheen	10.00	3372.04
	09/08/09	3429.97	71.75	61.22	61.22	0.00	ND	ND	ND	3368.75
	09/16/09	3429.97	71.75	58.02	58.02	0.00	ND	ND	ND	3371.95
	09/23/09	3429.97	71.75	58.05	58.05	0.00	Pump	0.00	10.00	3371.92
	09/23/09	3429.97	71.75	58.05	58.05	0.00	ND	ND	ND	3371.92
	09/30/09	3429.97	71.75	57.96	57.96	0.00	Pump	0.00	10.00	3372.01
	09/30/09	3429.97	71.75	59.95	59.95	0.00	ND	ND	ND	3370.02
	10/07/09	3429.97	71.75	57.99	57.99	0.00	Pump	0.00	10.00	3371.98
	10/07/09	3429.97	71.75	59.90	59.90	0.00	ND	ND	ND	3370.07
	10/14/09	3429.97	71.75	58.01	58.01	0.00	ND	ND	ND	3371.96
	10/21/09	3429.97	71.75	58.01	58.01	0.00	Hand bail	0.00	10.00	3371.96
	10/21/09	3429.97	71.75	58.45	58.45	0.00	ND	ND	ND	3371.52
	10/29/09	3429.97	71.75	57.98	57.98	0.00	Pump	0.00	15.00	3371.99
	10/29/09	3429.97	71.75	59.17	59.17	0.00	ND	ND	ND	3370.80
	11/04/09	3429.97	71.75	57.95	57.95	0.00	ND	ND	ND	3372.02
	11/11/09	3429.97	71.75	58.02	58.02	0.00	Pump	0.00	15.00	3371.95
	11/11/09	3429.97	71.75	59.35	59.35	0.00	ND	ND	ND	3370.62
	11/17/09	3429.97	71.75	58.01	58.01	0.00	Pump	0.00	10.00	3371.96
	11/17/09	3429.97	71.75	59.49	59.49	0.00	Flip sock	ND	ND	3370.48
	11/25/09	3429.97	71.75	57.97	57.97	0.00	Pump	0.00	15.00	3372.00
	11/25/09	3429.97	71.75	59.33	59.33	0.00	ND	ND	ND	3370.64
	12/02/09	3429.97	71.75	57.78	57.78	0.00	Pump	Sheen	15.00	3372.19
	12/02/09	3429.97	71.75	60.65	60.65	0.00	ND	ND	ND	3369.32

TABLE 1
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Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-2	12/09/09	3429.97	71.75	57.98	57.98	0.00	Pump	0.00	15.00	3371.99
	12/09/09	3429.97	71.75	59.69	59.69	0.00	ND	ND	ND	3370.28
	12/16/09	3429.97	71.75	57.98	57.98	0.00	Pump	0.00	15.00	3371.99
	12/16/09	3429.97	71.75	60.24	60.24	0.00	ND	ND	ND	3369.73
	12/23/09	3429.97	71.75	58.60	58.60	0.00	Pump	0.00	10.00	3371.37
	12/23/09	3429.97	71.75	59.26	59.26	0.00	ND	ND	ND	3370.71
	12/30/09	3429.97	71.75	58.08	58.08	0.00	Pump	Sheen	25.00	3371.89
	12/30/09	3429.97	71.75	60.27	60.27	0.00	ND	ND	ND	3369.70
MW-3	01/02/09	3429.89	65.55	57.82	57.82	0.00	No Sock	ND	ND	3372.07
	01/07/09	3429.89	66.42	57.76	57.76	0.00	No Sock	ND	ND	3372.13
	01/15/09	3429.89	66.42	57.82	57.82	0.00	No Sock	ND	ND	3372.07
	01/22/09	3429.89	66.42	57.81	57.81	0.00	No Sock	ND	ND	3372.08
	01/28/09	3429.89	66.42	57.82	57.82	0.00	No Sock	ND	ND	3372.07
	02/04/09	3429.89	66.30	57.78	57.78	0.00	No Sock	ND	ND	3372.11
	02/04/09	3429.89	66.30	57.76	57.76	0.00	No Sock	ND	ND	3372.13
	02/18/09	3429.89	66.30	57.79	57.79	0.00	No Sock	ND	ND	3372.10
	02/25/09	3429.89	66.30	57.79	57.79	0.00	No Sock	ND	ND	3372.10
	03/04/09	3429.89	66.35	57.77	57.77	0.00	No Sock	ND	ND	3372.12
	03/11/09	3429.89	66.35	57.72	57.72	0.00	No Sock	ND	ND	3372.17
	03/18/09	3429.89	66.35	57.77	57.77	0.00	No Sock	ND	ND	3372.12
	03/25/09	3429.89	66.35	57.74	57.74	0.00	No Sock	ND	ND	3372.15
	04/01/09	3429.89	66.35	57.76	57.76	0.00	No Sock	ND	ND	3372.13
	04/08/09	3429.89	66.35	57.77	57.77	0.00	No Sock	ND	ND	3372.12
	04/15/09	3429.89	66.35	57.75	57.75	0.00	No Sock	ND	ND	3372.14
	04/22/09	3429.89	66.35	57.76	57.76	0.00	No Sock	ND	ND	3372.13
	04/22/09	3429.89	66.35	65.15	65.15	0.00	Pump	0.00	5.00	3364.74
	04/29/09	3429.89	66.35	57.80	57.80	0.00	No Sock	ND	ND	3372.09
	05/06/09	3429.89	66.35	57.75	57.75	0.00	No Sock	ND	ND	3372.14
	05/14/09	3429.89	66.35	57.77	57.77	0.00	No Sock	ND	ND	3372.12
	05/20/09	3429.89	66.35	57.83	57.83	0.00	No Sock	ND	ND	3372.06
	05/27/09	3429.89	66.35	57.76	57.76	0.00	No Sock/Bailed Dry	0.00	7.00	3372.13
	05/27/09	3429.89	66.35	65.89	65.89	0.00	No Sock	ND	ND	3364.00
	06/03/09	3429.89	66.35	57.86	57.86	0.00	No Sock	ND	ND	3372.03
	06/11/09	3429.89	66.35	57.84	57.84	0.00	No Sock	ND	ND	3372.05
	06/17/09	3429.89	66.35	57.86	57.86	0.00	No Sock	ND	ND	3372.03
	06/23/09	3429.89	66.35	57.65	57.65	0.00	No Sock	ND	ND	3372.24
	07/01/09	3429.89	66.35	57.88	57.88	0.00	No Sock	ND	ND	3372.01
	07/07/09	3429.89	66.35	56.95	56.95	0.00	No Sock	ND	ND	3372.94
	07/15/09	3429.89	66.35	57.83	57.83	0.00	No Sock	ND	ND	3372.06
	07/22/09	3429.89	66.35	57.90	57.90	0.00	No Sock	ND	ND	3371.99
	07/29/09	3429.89	66.35	56.97	56.97	0.00	No Sock	ND	ND	3372.92
	08/05/09	3429.89	66.35	57.81	57.81	0.00	No Sock	ND	ND	3372.08
	08/12/09	3429.89	66.35	57.90	57.90	0.00	ND	ND	ND	3371.99
	08/19/09	3429.89	66.35	57.91	57.91	0.00	ND	ND	ND	3371.98
	08/27/09	3429.89	66.35	57.92	57.92	0.00	ND	ND	ND	3371.97
	09/02/09	3429.89	66.35	57.92	57.92	0.00	ND	ND	ND	3371.97
	09/09/09	3429.89	66.35	57.93	57.93	0.00	No Sock	ND	ND	3371.96
	09/16/09	3429.89	66.35	58.00	58.00	0.00	No Sock	ND	ND	3371.89
	09/23/09	3429.89	65.55	58.02	58.02	0.00	No Sock	ND	ND	3371.87
	09/23/09	3429.89	65.55	65.70	65.70	0.00	Pump/Bailed dry	0.00	5.00	3364.19
	09/30/09	3429.89	65.55	58.22	58.22	0.00	No Sock	ND	ND	3371.67
	10/07/09	3429.89	65.55	58.05	58.05	0.00	No Sock	ND	ND	3371.84
	10/14/09	3429.89	65.55	58.04	58.04	0.00	No Sock	ND	ND	3371.85
	10/21/09	3429.89	65.55	58.04	58.04	0.00	Hand bail/bailed dry	0.00	6.00	3371.85

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-3	10/21/09	3429.89	65.55	66.67	66.67	0.00	No Sock	ND	ND	3363.22
	10/29/09	3429.89	65.55	58.15	58.15	0.00	Pump/Bailed dry	0.00	4.00	3371.74
	10/29/09	3429.89	65.55	62.22	62.22	0.00	No Sock	ND	ND	3367.67
	11/04/09	3429.89	65.55	58.25	58.25	0.00	No Sock	ND	ND	3371.64
	11/11/09	3429.89	65.55	58.07	58.07	0.00	No Sock	ND	ND	3371.82
	11/17/09	3429.89	65.55	58.08	58.08	0.00	No Sock/Hand bailed (dry)	0.00	3.50	3371.81
	11/17/09	3429.89	65.55	63.12	63.12	0.00	No Sock	ND	ND	3366.77
	11/25/09	3429.89	65.55	58.15	58.15	0.00	No Sock	ND	ND	3371.74
	12/02/09	3429.89	65.55	58.05	58.05	0.00	No Sock/Hand bailed (dry)	0.00	3.50	3371.84
	12/02/09	3429.89	65.55	63.91	63.91	0.00	No Sock	ND	ND	3365.98
	12/09/09	3429.89	65.55	58.21	58.21	0.00	No Sock	ND	ND	3371.68
	12/09/09	3429.89	65.55	58.21	58.21	0.00	No Sock	ND	ND	3371.68
	12/16/09	3429.89	65.55	58.09	58.09	0.00	No Sock	ND	ND	3371.80
	12/23/09	3429.89	65.55	58.05	58.05	0.00	No Sock	ND	ND	3371.84
	12/30/09	3429.89	65.55	58.08	58.08	0.00	No Sock	ND	ND	3371.81
MW-4	01/02/09	3430.36	71.90	58.34	58.34	0.00	New Sock	ND	ND	3372.02
	01/07/09	3430.36	74.92	58.21	58.21	0.00	New Sock	ND	ND	3372.15
	01/15/09	3430.36	74.92	58.21	58.21	0.00	New Sock	ND	ND	3372.15
	01/22/09	3430.36	74.92	58.16	58.16	0.00	Flip Sock	ND	ND	3372.20
	01/28/09	3430.36	74.92	58.17	58.17	0.00	New Sock	ND	ND	3372.19
	02/04/09	3430.36	74.97	58.14	58.14	0.00	Sock	ND	ND	3372.22
	02/04/09	3430.36	74.97	58.21	58.21	0.00	Sock	ND	ND	3372.15
	02/18/09	3430.36	74.97	58.13	58.13	0.00	Sock	ND	ND	3372.23
	02/25/09	3430.36	74.97	58.14	58.14	0.00	Sock	ND	ND	3372.22
	03/04/09	3430.36	72.82	58.13	58.13	0.00	New Sock	ND	ND	3372.23
	03/11/09	3430.36	72.82	58.18	58.18	0.00	Flip Sock	ND	ND	3372.18
	03/18/09	3430.36	72.82	58.11	58.11	0.00	Sock	ND	ND	3372.25
	03/25/09	3430.36	72.82	58.10	58.10	0.00	New Sock	ND	ND	3372.26
	04/01/09	3430.36	72.82	58.11	58.11	0.00	Sock	ND	ND	3372.25
	04/08/09	3430.36	72.82	58.13	58.13	0.00	Sock	ND	ND	3372.23
	04/15/09	3430.36	72.82	58.16	58.16	0.00	Sock	ND	ND	3372.20
	04/22/09	3430.36	72.82	58.14	58.14	0.00	Sock	ND	ND	3372.22
	04/29/09	3430.36	72.82	58.10	58.10	0.00	Sock	ND	ND	3372.26
	05/06/09	3430.36	72.82	58.13	58.13	0.00	Sock	ND	ND	3372.23
	05/14/09	3430.36	72.82	58.18	58.18	0.00	Sock	ND	ND	3372.18
	05/20/09	3430.36	72.82	58.13	58.13	0.00	Sock	ND	ND	3372.23
	05/27/09	3430.36	72.82	58.22	58.22	0.00	Sock	0.00	27.00	3372.14
	05/27/09	3430.36	72.82	68.07	68.07	0.00	Sock	ND	ND	3362.29
	06/03/09	3430.36	72.82	58.26	58.26	0.00	Sock	ND	ND	3372.10
	06/11/09	3430.36	72.82	58.21	58.21	0.00	Sock	ND	ND	3372.15
	06/17/09	3430.36	72.82	58.40	58.40	0.00	Sock	ND	ND	3371.96
	06/23/09	3430.36	72.82	58.34	58.34	0.00	Sock	ND	ND	3372.02
	07/01/09	3430.36	72.82	58.36	58.36	0.00	Sock	ND	ND	3372.00
	07/07/09	3430.36	72.82	58.33	58.33	0.00	Sock	ND	ND	3372.03
	07/15/09	3430.36	72.82	58.44	58.44	0.00	Sock	ND	ND	3371.92
	07/22/09	3430.36	72.82	58.48	58.48	0.00	New Sock	ND	ND	3371.88
	07/29/09	3430.36	72.82	58.37	58.37	0.00	sock	ND	ND	3371.99
	08/05/09	3430.36	72.82	58.35	58.35	0.00	Flip Sock	ND	ND	3372.01
	08/12/09	3430.36	72.82	58.33	58.33	0.00	ND	ND	ND	3372.03
	08/19/09	3430.36	72.82	58.33	58.33	0.00	ND	ND	ND	3372.03
	08/27/09	3430.36	72.82	58.38	58.38	0.00	ND	ND	ND	3371.98
	09/02/09	3430.36	72.82	58.39	58.39	0.00	ND	ND	ND	3371.97
	09/09/09	3430.36	72.82	58.36	58.36	0.00	Flip Sock	ND	ND	3372.00
	09/16/09	3430.36	72.82	58.45	58.45	0.00	ND	ND	ND	3371.91

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2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-4	09/23/09	3430.36	72.82	58.42	58.42	0.00	ND	ND	ND	3371.94
	09/30/09	3430.36	71.90	58.40	58.40	0.00	ND	Sheen	13.00	3371.96
	09/30/09	3430.36	71.90	66.89	66.89	0.00	ND	ND	ND	3363.47
	10/07/09	3430.36	71.90	58.47	58.47	0.00	ND	ND	10.00	3371.89
	10/07/09	3430.36	71.90	66.79	66.79	0.00	ND	ND	ND	3363.57
	10/14/09	3430.36	71.90	58.47	58.47	0.00	ND	ND	10.00	3371.89
	10/14/09	3430.36	71.90	63.10	63.10	0.00	ND	ND	ND	3367.26
	10/21/09	3430.36	71.90	58.58	58.58	0.00	Hand bail/new sock	0.25	9.75	3371.78
	10/21/09	3430.36	71.90	63.90	63.90	0.00	ND	ND	ND	3366.46
	10/29/09	3430.36	71.90	58.47	58.47	0.00	ND	Sheen	ND	3371.89
	11/04/09	3430.36	71.90	58.54	58.54	0.00	ND	ND	ND	3371.82
	11/11/09	3430.36	71.90	58.46	58.46	0.00	ND	Sheen	10.00	3371.90
	11/11/09	3430.36	71.90	61.75	61.75	0.00	ND	ND	ND	3368.61
	11/17/09	3430.36	71.90	58.42	58.42	0.00	New Sock	ND	ND	3371.94
	11/25/09	3430.36	71.90	58.49	58.49	0.00	ND	ND	ND	3371.87
	12/02/09	3430.36	71.90	58.61	58.61	0.00	ND	0.00	10.00	3371.75
	12/02/09	3430.36	71.90	62.51	62.51	0.00	ND	ND	ND	3367.85
	12/09/09	3430.36	71.90	58.81	58.81	0.00	ND	0.00	10.00	3371.55
	12/09/09	3430.36	71.90	62.11	62.11	0.00	ND	ND	ND	3368.25
	12/16/09	3430.36	71.90	58.48	58.48	0.00	ND	ND	ND	3371.88
	12/23/09	3430.36	71.90	58.55	58.55	0.00	ND	ND	15.00	3371.81
	12/23/09	3430.36	71.90	62.63	62.63	0.00	ND	ND	ND	3367.73
	12/30/09	3430.36	71.90	58.69	58.69	0.00	ND	ND	ND	3371.67
MW-5	01/07/09	3428.93	72.35	ND	56.53	ND	ND	ND	ND	3372.40
	02/04/09	3428.93	72.35	ND	56.61	ND	ND	ND	ND	3372.32
	02/18/09	3428.93	72.39	ND	56.58	ND	ND	ND	ND	3372.35
	02/18/09	3428.93	72.39	ND	56.58	ND	ND	ND	ND	3372.35
	03/04/09	3428.93	72.26	ND	56.57	ND	ND	ND	ND	3372.36
	04/08/09	3428.93	72.26	ND	56.49	ND	ND	ND	ND	3372.44
	05/06/09	3428.93	72.26	ND	56.50	ND	ND	ND	ND	3372.43
	05/20/09	3428.93	72.26	ND	56.55	ND	ND	ND	ND	3372.38
	06/03/09	3428.93	72.26	ND	56.59	ND	ND	ND	ND	3372.34
	07/15/09	3428.93	72.26	ND	56.82	ND	ND	ND	ND	3372.11
	08/05/09	3428.93	72.26	ND	56.75	ND	ND	ND	ND	3372.18
	08/27/09	3428.93	72.20	ND	56.76	ND	ND	ND	ND	3372.17
	09/02/09	3428.93	72.20	ND	56.68	ND	ND	ND	ND	3372.25
	10/07/09	3428.93	72.20	ND	56.89	ND	ND	ND	ND	3372.04
	11/04/09	3428.93	72.20	ND	56.79	ND	ND	ND	ND	3372.14
	11/17/09	3428.93	72.20	ND	56.78	ND	ND	ND	ND	3372.15
	12/02/09	3428.93	72.20	ND	56.82	ND	ND	ND	ND	3372.11
MW-6	01/07/09	3429.24	76.50	ND	56.67	ND	ND	ND	ND	3372.57
	02/04/09	3429.24	76.51	ND	56.73	ND	ND	ND	ND	3372.51
	02/18/09	3429.24	76.40	ND	56.71	ND	ND	ND	ND	3372.53
	03/04/09	3429.24	76.64	ND	56.69	ND	ND	ND	ND	3372.55
	04/08/09	3429.24	76.64	ND	56.59	ND	ND	ND	ND	3372.65
	05/06/09	3429.24	76.64	ND	56.59	ND	ND	ND	ND	3372.65
	05/20/09	3429.24	76.64	ND	56.63	ND	ND	ND	ND	3372.61
	06/03/09	3429.24	76.64	ND	56.68	ND	ND	ND	ND	3372.56
	07/15/09	3429.24	76.64	ND	56.87	ND	ND	ND	ND	3372.37
	08/05/09	3429.24	76.64	ND	56.84	ND	ND	ND	ND	3372.40
	08/27/09	3429.24	76.58	ND	56.89	ND	ND	ND	ND	3372.35
	09/02/09	3429.24	76.58	ND	56.90	ND	ND	ND	ND	3372.34
	10/07/09	3429.24	76.58	ND	56.89	ND	ND	ND	ND	3372.35
	11/04/09	3429.24	76.58	ND	56.92	ND	ND	ND	ND	3372.32

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Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-6	11/17/09	3429.24	76.58	ND	56.87	ND	ND	ND	ND	3372.37
	12/02/09	3429.24	76.58	ND	56.92	ND	ND	ND	ND	3372.32
MW-7	02/04/09	3429.8	71.68	Na	57.77	Na	ND	ND	ND	3372.03
	02/18/09	3429.8	71.63	ND	57.75	ND	ND	ND	ND	3372.05
	03/04/09	3429.8	71.71	ND	57.78	ND	ND	ND	ND	3372.02
	04/08/09	3429.8	71.71	ND	57.67	ND	ND	ND	ND	3372.13
	05/06/09	3429.8	71.71	ND	57.70	ND	ND	ND	ND	3372.10
	05/20/09	3429.8	71.71	ND	57.73	ND	ND	ND	ND	3372.07
	06/03/09	3429.8	71.71	ND	57.75	ND	ND	ND	ND	3372.05
	07/15/09	3429.8	71.71	ND	57.95	ND	ND	ND	ND	3371.85
	08/05/09	3429.8	71.71	ND	57.91	ND	ND	ND	ND	3371.89
	08/27/09	3429.8	71.59	ND	57.96	ND	ND	ND	ND	3371.84
	09/02/09	3429.8	71.59	ND	57.94	ND	ND	ND	ND	3371.86
	10/07/09	3429.8	71.59	ND	57.96	ND	ND	ND	ND	3371.84
	11/04/09	3429.8	71.59	ND	57.98	ND	ND	ND	ND	3371.82
	11/17/09	3429.8	71.59	ND	57.96	ND	ND	ND	ND	3371.84
	12/02/09	3429.8	71.59	ND	57.97	ND	ND	ND	ND	3371.83
MW-8	01/02/09	3430.21	62.28	58.05	58.05	0.00	Sock	ND	ND	3372.16
	01/07/09	3430.21	64.42	57.99	57.99	0.00	Sock	ND	ND	3372.22
	01/15/09	3430.21	64.42	58.03	58.03	0.00	Sock	ND	ND	3372.18
	01/22/09	3430.21	64.42	57.99	57.99	0.00	New Sock	ND	ND	3372.22
	01/28/09	3430.21	64.42	57.98	57.98	0.00	Flip sock	ND	ND	3372.23
	02/04/09	3430.21	64.47	58.00	58.00	0.00	Sock	ND	ND	3372.21
	02/04/09	3430.21	64.47	58.02	58.02	0.00	Sock	ND	ND	3372.19
	02/18/09	3430.21	64.47	57.97	57.97	0.00	Sock	ND	ND	3372.24
	02/25/09	3430.21	64.47	57.95	57.95	0.00	Sock	ND	ND	3372.26
	03/04/09	3430.21	64.46	57.95	57.95	0.00	Flip sock	ND	ND	3372.26
	03/11/09	3430.21	64.46	58.02	58.02	0.00	Sock	ND	ND	3372.19
	03/18/09	3430.21	64.46	57.96	57.96	0.00	Pump	0.00	20.00	3372.25
	03/18/09	3430.21	64.46	59.29	59.29	0.00	ND	ND	ND	3370.92
	03/25/09	3430.21	64.46	57.96	57.96	0.00	Pump	0.00	20.00	3372.25
	03/25/09	3430.21	64.46	59.51	59.51	0.00	ND	ND	ND	3370.70
	04/01/09	3430.21	64.46	57.93	57.93	0.00	Pump	0.10	19.90	3372.28
	04/01/09	3430.21	64.46	58.81	58.81	0.00	ND	ND	ND	3371.40
	04/08/09	3430.21	64.46	57.93	57.93	0.00	Pump	0.00	12.00	3372.28
	04/08/09	3430.21	64.46	58.05	58.05	0.00	ND	ND	ND	3372.16
	04/15/09	3430.21	64.46	58.10	58.10	0.00	Pump	0.00	10.00	3372.11
	04/15/09	3430.21	64.46	58.13	58.13	0.00	ND	ND	ND	3372.08
	04/22/09	3430.21	64.46	57.98	57.98	0.00	Pump	0.00	20.00	3372.23
	04/22/09	3430.21	64.46	58.93	58.93	0.00	ND	ND	ND	3371.28
	04/29/09	3430.21	64.46	57.95	57.95	0.00	Pump	0.00	20.00	3372.26
	04/29/09	3430.21	64.46	59.48	59.48	0.00	ND	ND	ND	3370.73
	05/06/09	3430.21	64.46	57.96	57.96	0.00	ND	ND	ND	3372.25
	05/14/09	3430.21	64.46	58.01	58.01	0.00	ND	ND	ND	3372.20
	05/14/09	3430.21	64.46	59.34	59.34	0.00	Pump	0.00	20.00	3370.87
	05/20/09	3430.21	64.46	57.91	57.91	0.00	ND	ND	ND	3372.30
	05/27/09	3430.21	64.46	58.01	58.01	0.00	Pump	0.00	10.00	3372.20
	05/27/09	3430.21	64.46	58.99	58.99	0.00	ND	ND	ND	3371.22
	06/03/09	3430.21	64.46	58.01	58.01	0.00	ND	ND	ND	3372.20
	06/11/09	3430.21	64.46	58.09	58.09	0.00	ND	ND	ND	3372.12
	06/17/09	3430.21	64.46	58.38	58.38	0.00	ND	ND	ND	3371.83
	06/17/09	3430.21	64.46	59.30	59.30	0.00	Pump	0.00	10.00	3370.91
	06/23/09	3430.21	64.46	58.09	58.09	0.00	ND	ND	ND	3372.12
	07/01/09	3430.21	64.46	58.10	58.10	0.00	ND	ND	ND	3372.11
	07/07/09	3430.21	64.46	58.07	58.07	0.00	ND	ND	ND	3372.14

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-8	07/15/09	3430.21	64.46	58.14	58.14	0.00	Flip sock	0.00	10.00	3372.07
	07/22/09	3430.21	64.46	58.22	58.22	0.00	ND	ND	ND	3371.99
	07/29/09	3430.21	64.46	58.16	58.16	0.00	ND	ND	ND	3372.05
	08/05/09	3430.21	64.46	58.13	58.13	0.00	New Sock	ND	ND	3372.08
	08/12/09	3430.21	64.46	58.12	58.12	0.00	ND	ND	ND	3372.09
	08/19/09	3430.21	64.46	58.10	58.10	0.00	New Sock	ND	ND	3372.11
	08/27/09	3430.21	64.46	58.18	58.18	0.00	ND	ND	ND	3372.03
	09/02/09	3430.21	64.46	58.15	58.15	0.00	ND	ND	ND	3372.06
	09/09/09	3430.21	64.46	58.17	58.17	0.00	New Sock	Sheen	10.00	3372.04
	09/09/09	3430.21	64.46	59.43	59.43	0.00	ND	ND	ND	3370.78
	09/16/09	3430.21	64.46	58.24	58.24	0.00	ND	ND	ND	3371.97
	09/23/09	3430.21	64.46	58.24	58.24	0.00	ND	0.00	10.00	3371.97
	09/23/09	3430.21	64.46	59.71	59.71	0.00	ND	ND	ND	3370.50
	09/30/09	3430.21	64.46	58.21	58.21	0.00	ND	0.00	10.00	3372.00
	09/30/09	3430.21	64.46	59.58	59.58	0.00	ND	ND	ND	3370.63
	10/07/09	3430.21	64.46	58.24	58.24	0.00	ND	ND	ND	3371.97
	10/14/09	3430.21	64.46	58.23	58.23	0.00	Pump	0.00	10.00	3371.98
	10/14/09	3430.21	64.46	59.69	59.69	0.00	ND	ND	ND	3370.52
	10/21/09	3430.21	64.46	58.25	58.25	0.00	ND	ND	ND	3371.96
	10/29/09	3430.21	64.46	58.26	58.26	0.00	Pump	Sheen	15.00	3371.95
	10/29/09	3430.21	64.46	59.79	59.79	0.00	ND	ND	ND	3370.42
	11/04/09	3430.21	64.46	58.26	58.26	0.00	ND	ND	ND	3371.95
	11/11/09	3430.21	64.46	58.26	58.26	0.00	Pump	0.00	10.00	3371.95
	11/11/09	3430.21	64.46	59.54	59.54	0.00	ND	ND	ND	3370.67
	11/17/09	3430.21	64.46	58.23	58.24	0.01	Pump	Sheen	10.00	3371.98
	11/17/09	3430.21	64.46	58.23	58.24	0.01	ND	ND	ND	3371.98
	11/25/09	3430.21	64.46	58.23	58.24	0.01	ND	ND	ND	3371.98
	11/25/09	3430.21	64.46	59.26	59.26	0.00	ND	Sheen	10.00	3370.95
	12/02/09	3430.21	64.46	58.25	58.25	0.00	Pump	0.00	10.00	3371.96
	12/02/09	3430.21	64.46	59.62	59.62	0.00	ND	ND	ND	3370.59
	12/09/09	3430.21	64.46	58.26	58.26	0.00	Pump	0.00	10.00	3371.95
	12/09/09	3430.21	64.46	58.95	58.95	0.00	ND	ND	ND	3371.26
	12/16/09	3430.21	64.46	58.27	58.27	0.00	ND	ND	ND	3371.94
	12/23/09	3430.21	64.46	58.27	58.27	0.00	ND	ND	ND	3371.94
	12/30/09	3430.21	64.46	58.26	58.27	0.01	ND	ND	ND	3371.95
MW-9	01/02/09	3429.88	67.15	57.70	57.70	0.00	Flip Sock	0.5	19.5	3372.18
	01/02/09	3429.88	67.15	58.07	58.07	0.00	ND	ND	ND	3371.81
	01/07/09	3429.88	68.84	57.74	57.74	0.00	New sock	0.5	9.5	3372.14
	01/07/09	3429.88	67.15	57.73	57.74	0.01	ND	ND	ND	3372.15
	01/15/09	3429.88	67.15	57.73	57.73	0.00	Pump	0.5	9.5	3372.15
	01/15/09	3429.88	67.15	58.01	58.01	0.00	ND	ND	ND	3371.87
	01/22/09	3429.88	67.15	57.62	57.62	0.00	Pump/New Sock	0.25	9.75	3372.26
	01/22/09	3429.88	67.15	58.07	58.07	0.00	ND	ND	ND	3371.81
	01/28/09	3429.88	67.15	57.66	57.66	0.00	Pump	0	20	3372.22
	01/28/09	3429.88	67.15	58.88	58.88	0.00	ND	ND	ND	3371.00
	02/04/09	3429.88	67.52	57.64	57.64	0.00	Pump/Flip sock	1	19	3372.24
	02/04/09	3429.88	67.52	57.84	57.84	0.00	ND	ND	ND	3372.04
	02/11/09	3429.88	67.52	57.66	57.66	0.00	Pump/ sock	0.25	19.75	3372.22
	02/11/09	3429.88	67.52	57.84	57.84	0.00	ND	ND	ND	3372.04
	02/18/09	3429.88	67.52	57.61	57.61	0.00	Pump/Flip sock	0.25	19.75	3372.27
	02/18/09	3429.88	67.52	58.56	58.56	0.00	ND	ND	ND	3371.32
	02/25/09	3429.88	67.52	57.60	57.60	0.00	Pump/Sock	0.25	19.75	3372.28
	02/25/09	3429.88	67.52	58.55	58.55	0.00	ND	ND	ND	3371.33
	03/04/09	3429.88	71.61	57.61	57.61	0.00	Pump/Flip sock	0.25	14.75	3372.27
	03/04/09	3429.88	67.52	58.25	58.25	0.00	ND	ND	ND	3371.63

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Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-9	03/11/09	3429.88	67.52	57.67	57.67	0.00	New sock	0.25	19.75	3372.21
	03/11/09	3429.88	67.52	58.15	58.15	0.00	ND	ND	ND	3371.73
	03/18/09	3429.88	67.52	57.59	57.59	0.00	Pump	0.25	14.75	3372.29
	03/18/09	3429.88	67.52	58.41	58.41	0.00	ND	ND	ND	3371.47
	03/25/09	3429.88	67.52	57.58	57.58	0.00	Flip Sock	ND	ND	3372.30
	04/01/09	3429.88	67.52	57.56	57.56	0.00	Sock/Pump	1.5	18.5	3372.32
	04/01/09	3429.88	67.52	58.18	58.18	0.00	ND	ND	ND	3371.70
	04/08/09	3429.88	67.52	57.66	57.66	0.00	Sock/Pump	0.5	17.5	3372.22
	04/08/09	3429.88	67.52	59.39	59.39	0.00	ND	ND	ND	3370.49
	04/15/09	3429.88	67.52	57.62	57.62	0.00	Sock/Pump	0.5	19.5	3372.26
	04/15/09	3429.88	67.52	60.06	60.06	0.00	ND	ND	ND	3369.82
	04/22/09	3429.88	67.52	57.62	57.62	0.00	Sock/Pump	0	15	3372.26
	04/22/09	3429.88	67.52	59.36	59.36	0.00	ND	ND	ND	3370.52
	04/29/09	3429.88	67.52	57.58	57.58	0.00	Sock/Pump	0.1	14.9	3372.30
	04/29/09	3429.88	67.52	60.12	60.12	0.00	ND	ND	ND	3369.76
	05/06/09	3429.88	67.52	57.63	57.63	0.00	ND	ND	ND	3372.25
	05/06/09	3429.88	67.52	59.87	59.87	0.00	Sock/Pump	0.25	14.75	3370.01
	05/14/09	3429.88	67.52	59.81	59.81	0.00	ND	ND	ND	3370.07
	05/14/09	3429.88	67.52	60.47	60.47	0.00	Sock/Pump	0.5	14.5	3369.41
	05/20/09	3429.88	67.52	57.69	57.69	0.00	ND	ND	ND	3372.19
	05/27/09	3429.88	67.52	57.80	57.80	0.00	ND	ND	ND	3372.08
	05/27/09	3429.88	67.52	58.20	58.20	0.00	Sock/Pump	0.5	29.5	3371.68
	06/03/09	3429.88	67.52	57.66	57.66	0.00	ND	ND	ND	3372.22
	06/03/09	3429.88	67.52	58.08	58.08	0.00	Sock/Pump	0.5	15	3371.80
	06/11/09	3429.88	67.52	57.70	57.70	0.00	ND	ND	ND	3372.18
	06/11/09	3429.88	67.52	58.13	58.13	0.00	Sock/Pump	0.5	14.5	3371.75
	06/17/09	3429.88	67.52	57.82	57.90	0.08	ND	ND	ND	3372.05
	06/17/09	3429.88	67.52	58.18	58.18	0.00	Sock/Pump	0.75	14.25	3371.70
	06/23/09	3429.88	67.52	57.80	57.80	0.00	Sock/Pump	0.25	14.75	3372.08
	07/01/09	3429.88	67.52	57.76	57.80	0.04	Sock/Pump	ND	10	3372.11
	07/07/09	3429.88	67.52	57.74	57.76	0.02	Sock/Pump	0.5	14.5	3372.14
	07/07/09	3429.88	67.52	58.84	58.84	0.00	ND	ND	ND	3371.04
	07/15/09	3429.88	67.52	57.79	57.90	0.11	Flip sock/Pump	0.25	9.75	3372.07
	07/15/09	3429.88	67.52	59.95	59.95	0.00	ND	ND	ND	3369.93
	07/22/09	3429.88	67.52	57.98	58.00	0.02	Pump/New Sock	0.5	9.5	3371.90
	07/22/09	3429.88	67.52	59.27	59.27	0.00	ND	ND	ND	3370.61
	07/29/09	3429.88	67.52	57.88	57.88	0.00	Pump	0.5	9.5	3372.00
	07/29/09	3429.88	67.52	59.99	59.99	0.00	ND	ND	ND	3369.89
	08/05/09	3429.88	67.52	57.87	57.89	0.02	Pump/Flip sock	0.25	9.75	3372.01
	08/05/09	3429.88	67.52	59.80	59.80	0.00	ND	ND	ND	3370.08
	08/12/09	3429.88	67.52	57.85	57.85	0.00	ND	ND	ND	3372.03
	08/19/09	3429.88	67.52	57.81	57.83	0.02	ND	0.25	9.75	3372.07
	08/19/09	3429.88	67.52	58.99	58.99	0.00	ND	ND	ND	3370.89
	08/27/09	3429.88	67.52	57.90	57.90	0.00	ND	Sheen	15	3371.98
	08/27/09	3429.88	67.52	57.95	57.95	0.00	ND	ND	ND	3371.93
	09/02/09	3429.88	67.52	57.93	57.93	0.00	ND	0.25	14.75	3371.95
	09/02/09	3429.88	67.52	59.14	59.14	0.00	ND	ND	ND	3370.74
	09/09/09	3429.88	67.52	57.91	57.91	0.00	ND	ND	ND	3371.97
	09/16/09	3429.88	67.52	57.98	58.00	0.02	ND	ND	ND	3371.90
	09/16/09	3429.88	67.52	59.69	59.69	0.00	ND	ND	ND	3370.19
	09/23/09	3429.88	67.52	58.03	58.05	0.02	new sock/Pump	1	19	3371.85
	09/23/09	3429.88	67.52	61.57	61.57	0.00	ND	ND	ND	3368.31
	09/30/09	3429.88	67.52	57.92	57.92	0.00	Pump	0.25	9.75	3371.96
	09/30/09	3429.88	67.52	59.86	59.86	0.00	ND	ND	ND	3370.02
	10/07/09	3429.88	67.52	57.94	57.94	0.00	Pump	0.25	9.75	3371.94
	10/07/09	3429.88	67.52	60.02	60.02	0.00	ND	ND	ND	3369.86

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								PSH (gallons)	Water (gallons)	
MW-9	10/14/09	3429.88	67.52	57.95	57.95	0.00	Pump	1	9	3371.93
	10/14/09	3429.88	67.52	61.05	61.05	0.00	ND	ND	ND	3368.83
	10/21/09	3429.88	67.52	57.90	57.90	0.00	Hand bail	0.5	9.5	3371.98
	10/21/09	3429.88	67.52	61.05	61.05	0.00	ND	ND	ND	3368.83
	10/29/09	3429.88	67.52	57.99	57.99	0.00	Pump	1.5	20	3371.89
	10/29/09	3429.88	67.52	58.82	58.82	0.00	ND	ND	ND	3371.06
	11/04/09	3429.88	67.52	57.91	57.91	0.00	ND	ND	ND	3371.97
	11/11/09	3429.88	67.52	57.97	58.00	0.03	Pump	1	9	3371.91
	11/11/09	3429.88	67.52	59.25	59.25	0.00	ND	ND	ND	3370.63
	11/17/09	3429.88	67.52	57.96	57.96	0.00	Pump	1	9	3371.92
	11/17/09	3429.88	67.52	59.63	59.63	0.00	ND	ND	ND	3370.25
	11/25/09	3429.88	67.52	57.92	57.94	0.02	Pump	1	9	3371.96
	11/25/09	3429.88	67.52	59.35	59.35	0.00	ND	ND	ND	3370.53
	12/02/09	3429.88	67.52	57.91	57.93	0.02	Pump	1	14	3371.97
	12/02/09	3429.88	67.52	59.35	59.43	0.08	ND	ND	ND	3370.52
	12/09/09	3429.88	67.52	57.98	58.00	0.02	Pump	1	14	3371.90
	12/09/09	3429.88	67.52	60.57	60.57	0.00	ND	ND	ND	3369.31
	12/15/09	3429.88	67.52	57.93	57.93	0.00	Pump	1	14	3371.95
	12/15/09	3429.88	67.52	60.83	60.83	0.00	ND	ND	ND	3369.05
	12/23/09	3429.88	67.52	57.97	57.97	0.00	Pump	0.75	9.25	3371.91
	12/23/09	3429.88	67.52	59.43	59.43	0.00	ND	ND	ND	3370.45
	12/30/09	3429.88	67.52	58.00	58.00	0.00	Pump	0.75	9.25	3371.88
	12/30/09	3429.88	67.52	59.83	59.83	0.00	ND	ND	ND	3370.05
MW-10	01/02/09	3430.65	59.90	58.45	58.45	0.00	Sock	ND	ND	3372.20
	01/07/09	3430.65	63.38	58.41	58.41	0.00	Sock	ND	ND	3372.24
	01/15/09	3430.65	63.38	58.42	58.42	0.00	Sock	ND	ND	3372.23
	01/22/09	3430.65	63.38	58.34	58.34	0.00	Flip Sock	ND	ND	3372.31
	02/04/09	3430.65	63.21	58.31	58.31	0.00	Sock	ND	ND	3372.34
	02/11/09	3430.65	63.21	58.38	58.38	0.00	Sock	ND	ND	3372.27
	02/18/09	3430.65	63.21	58.33	58.33	0.00	Sock	ND	ND	3372.32
	02/25/09	3430.65	63.21	58.30	58.30	0.00	New sock	ND	ND	3372.35
	03/04/09	3430.65	63.14	58.30	58.30	0.00	Sock	ND	ND	3372.35
	03/11/09	3430.65	63.14	58.34	58.34	0.00	Sock	ND	ND	3372.31
	03/18/09	3430.65	63.14	58.28	58.28	0.00	Sock	ND	ND	3372.37
	03/25/09	3430.65	63.14	58.33	58.33	0.00	Sock	ND	ND	3372.32
	04/01/09	3430.65	63.14	58.30	58.30	0.00	Sock	ND	ND	3372.35
	04/08/09	3430.65	63.14	57.31	57.31	0.00	Sock	ND	ND	3373.34
	04/15/09	3430.65	63.14	58.89	58.89	0.00	Sock	ND	ND	3371.76
	04/22/09	3430.65	63.14	58.30	58.30	0.00	Sock	ND	ND	3372.35
	05/06/09	3430.65	63.14	58.29	58.29	0.00	Sock	ND	ND	3372.36
	05/14/09	3430.65	63.14	58.38	58.38	0.00	Sock	ND	ND	3372.27
	05/20/09	3430.65	63.14	58.29	58.29	0.00	Sock	ND	ND	3372.36
	05/27/09	3430.65	63.14	58.37	58.37	0.00	Sock	ND	ND	3372.28
	06/03/09	3430.65	63.14	58.31	58.31	0.00	Sock	ND	ND	3372.34
	06/11/09	3430.65	63.14	58.35	58.35	0.00	Sock	ND	ND	3372.30
	06/17/09	3430.65	63.14	58.43	58.43	0.00	Sock	ND	ND	3372.22
	06/23/09	3430.65	63.14	58.43	58.43	0.00	Sock	ND	ND	3372.22
	07/01/09	3430.65	63.14	58.44	58.44	0.00	Sock	ND	ND	3372.21
	07/07/09	3430.65	63.14	58.42	58.42	0.00	Sock	ND	ND	3372.23
	07/15/09	3430.65	63.14	58.46	58.46	0.00	Sock	ND	ND	3372.19
	07/22/09	3430.65	63.14	58.44	58.44	0.00	Sock	ND	ND	3372.21
	07/29/09	3430.65	63.14	58.54	58.54	0.00	Sock	ND	ND	3372.11
	08/05/09	3430.65	63.14	58.53	58.53	0.00	Sock	ND	ND	3372.12
	08/12/09	3430.65	63.14	58.53	58.53	0.00	Sock	ND	ND	3372.12
	08/19/09	3430.65	63.14	58.49	58.49	0.00	Sock	ND	ND	3372.16
	08/27/09	3430.65	63.14	58.54	58.54	0.00	Sock	ND	ND	3372.11

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-10	09/02/09	3430.65	63.14	58.51	58.51	0.00	Sock	ND	ND	3372.14
	09/09/09	3430.65	63.14	58.54	58.54	0.00	Sock	ND	ND	3372.11
	09/16/09	3430.65	63.14	58.61	58.61	0.00	Sock	ND	ND	3372.04
	09/23/09	3430.65	63.14	58.61	58.61	0.00	Sock	ND	ND	3372.04
	09/30/09	3430.65	59.90	58.60	58.60	0.00	Sock	ND	ND	3372.05
	10/07/09	3430.65	59.90	58.62	58.62	0.00	Sock	ND	ND	3372.03
	10/14/09	3430.65	59.90	58.63	58.63	0.00	Sock	ND	ND	3372.02
	10/21/09	3430.65	59.90	58.60	58.60	0.00	Sock	ND	ND	3372.05
	10/29/09	3430.65	59.90	58.60	58.60	0.00	Sock	ND	ND	3372.05
	11/04/09	3430.65	59.90	58.60	58.63	0.03	Sock	ND	ND	3372.05
	11/11/09	3430.65	59.90	58.65	58.65	0.00	Sock	ND	ND	3372.00
	11/17/09	3430.65	59.90	58.56	58.56	0.00	Flip Sock	ND	ND	3372.09
	11/25/09	3430.65	59.90	58.62	58.62	0.00	Sock	ND	ND	3372.03
	12/02/09	3430.65	59.90	58.59	58.59	0.00	Sock	ND	ND	3372.06
	12/09/09	3430.65	59.90	58.69	58.69	0.00	Sock	ND	ND	3371.96
	12/16/09	3430.65	59.90	58.62	58.62	0.00	Sock	ND	ND	3372.03
	12/23/09	3430.65	59.90	58.25	58.25	0.00	Sock	ND	ND	3372.40
	12/30/09	3430.65	59.90	58.64	58.64	0.00	Pump	Sheen	5.00	3372.01
	12/30/09	3430.65	59.90	59.77	59.77	0.00	ND	ND	ND	3370.88
MW-11	01/07/09	3430.94	73.65	ND	58.53	ND	ND	ND	ND	3372.41
	02/04/09	3430.94	73.65	ND	58.59	ND	ND	ND	ND	3372.35
	02/18/09	3430.94	73.68	ND	58.56	ND	ND	ND	ND	3372.38
	03/04/09	3430.94	73.45	ND	58.57	ND	ND	ND	ND	3372.37
	04/08/09	3430.94	73.45	ND	58.56	ND	ND	ND	ND	3372.38
	05/06/09	3430.94	73.45	ND	58.52	ND	ND	ND	ND	3372.42
	05/20/09	3430.94	73.45	ND	58.52	ND	ND	ND	ND	3372.42
	06/03/09	3430.94	73.45	ND	58.55	ND	ND	ND	ND	3372.39
	07/15/09	3430.94	73.45	ND	58.73	ND	ND	ND	ND	3372.21
	08/05/09	3430.94	73.45	ND	58.28	ND	ND	ND	ND	3372.66
	08/27/09	3430.94	74.81	ND	58.75	ND	ND	ND	ND	3372.19
	09/02/09	3430.94	74.81	ND	58.74	ND	ND	ND	ND	3372.20
	10/07/09	3430.94	74.81	ND	58.74	ND	ND	ND	ND	3372.20
	11/04/09	3430.94	74.81	ND	58.76	ND	ND	ND	ND	3372.18
	11/17/09	3430.94	74.81	ND	58.78	ND	ND	ND	ND	3372.16
	12/02/09	3430.94	74.81	ND	58.76	ND	ND	ND	ND	3372.18
MW-12	01/07/09	3426.47	64.34	ND	54.64	ND	ND	ND	ND	3371.83
	02/04/09	3426.47	64.30	ND	54.63	ND	ND	ND	ND	3371.84
	02/18/09	3426.47	64.32	ND	54.61	ND	ND	ND	ND	3371.86
	03/04/09	3426.47	64.33	ND	54.62	ND	ND	ND	ND	3371.85
	04/08/09	3426.47	64.33	ND	54.51	ND	ND	ND	ND	3371.96
	05/06/09	3426.47	64.33	ND	54.52	ND	ND	ND	ND	3371.95
	05/20/09	3426.47	64.33	ND	54.58	ND	ND	ND	ND	3371.89
	06/03/09	3426.47	64.33	ND	54.61	ND	ND	ND	ND	3371.86
	07/15/09	3426.47	64.33	ND	54.75	ND	ND	ND	ND	3371.72
	08/05/09	3426.47	64.33	ND	54.70	ND	ND	ND	ND	3371.77
	08/27/09	3426.47	64.18	ND	54.75	ND	ND	ND	ND	3371.72
	09/02/09	3426.47	64.18	ND	54.79	ND	ND	ND	ND	3371.68
	10/07/09	3426.47	64.18	ND	54.78	ND	ND	ND	ND	3371.69
	11/04/09	3426.47	64.18	ND	54.80	ND	ND	ND	ND	3371.67
	11/17/09	3426.47	64.18	ND	54.81	ND	ND	ND	ND	3371.66
	12/02/09	3426.47	64.18	ND	54.80	ND	ND	ND	ND	3371.67
MW-13	01/07/09	3431.13	74.60	ND	59.31	ND	ND	ND	ND	3371.82
	02/04/09	3431.13	74.61	ND	59.32	ND	ND	ND	ND	3371.81
	02/18/09	3431.13	74.60	ND	59.26	ND	ND	ND	ND	3371.87

TABLE 1
2009 GROUNDWATER ELEVATION DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-13	03/04/09	3431.13	74.71	ND	59.32	ND	ND	ND	ND	3371.81
	04/08/09	3431.13	74.71	ND	59.02	ND	ND	ND	ND	3372.11
	05/06/09	3431.13	74.71	ND	59.20	ND	ND	ND	ND	3371.93
	05/20/09	3431.13	74.71	ND	59.25	ND	ND	ND	ND	3371.88
	06/03/09	3431.13	74.71	ND	59.28	ND	ND	ND	ND	3371.85
	07/15/09	3431.13	74.71	ND	59.39	ND	ND	ND	ND	3371.74
	08/05/09	3431.13	74.71	ND	59.40	ND	ND	ND	ND	3371.73
	08/27/09	3431.13	74.60	ND	59.36	ND	ND	ND	ND	3371.77
	09/02/09	3431.13	74.60	ND	59.39	ND	ND	ND	ND	3371.74
	10/07/09	3431.13	74.60	ND	59.41	ND	ND	ND	ND	3371.72
	11/04/09	3431.13	74.60	ND	59.45	ND	ND	ND	ND	3371.68
	11/17/09	3431.13	74.60	ND	59.44	ND	ND	ND	ND	3371.69
	12/02/09	3431.13	74.60	ND	59.43	ND	ND	ND	ND	3371.70

ND: Not Applicable
NG: Not Gauged

TABLE 2

Historical Groundwater Elevation Data

(Available on CD attached to back cover)

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Plains Pipeline, L.P.
SRS No. 2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.010	0.750	0.750	0.620
MW 5	03/01/07	T16511-1	**0.172**[a]	0.0062	0.1380	0.0900
MW 5	06/01/07	T17665-2	**0.1210**	0.0101	0.1030	0.0608
MW 5	09/06/07	T18805-1	**0.0477**	0.0113	0.0523	0.0335
MW 5	11/13/07	T19776-1	**0.0775**	0.0285	0.0906	0.0531
MW 5	02/26/08	T21030-1	0.00097 J	<0.00023	0.0031	<0.00055
MW 5	05/29/08	T22388-5	**0.05730**	0.0134	0.0804	0.0625
MW 5	08/18/08	T23521-1	**0.01010**	0.0039	0.0349	0.0194
MW 5	11/20/08	180223	**0.0290**	0.00670	0.0827	0.0307
MW 5	02/18/09	187826	**0.0256**	0.00220	0.1090	0.0403
MW 5	05/20/09	9052219	**0.0131**	0.00150	0.0589	0.0243[b]
MW 5	08/27/09	9083115	0.0073	<0.000188	0.0452	0.01360
MW 5	11/17/09	215407	0.00600	0.000500 J	0.0408	0.0157
MW 6	03/01/07	T16511-2	<0.00035	<0.00020	<0.00033	<0.00036
MW 6	06/01/07	T17665-1	<0.00021	<0.00023	<0.00035	<0.00055
MW 6	09/06/07	T18805-2	<0.00021	<0.00023	<0.00035	<0.00055
MW 6	11/13/07	T19776-2	<0.0005	<0.0005	<0.0005	<0.001
MW 6	02/26/08	T21030-2	<0.00021	<0.00023	<0.00035	<0.00055
MW 6	05/29/08	T22388-6	<0.00021	<0.00023	<0.00035	<0.00055
MW 6	08/18/08	T23521-2	<0.0005	<0.0005	<0.0005	<0.001
MW 6	11/20/08	180224	<0.00100	<0.00100	<0.00100	<0.00100
MW 6	02/18/09	187827	<0.00100	<0.00100	0.0019	<0.00100
MW 6	05/20/09	9052219	<0.000149	<0.000188	<0.000178	<0.000163
MW 6	08/27/09	9083115	<0.000149	<0.000188	<0.000178	<0.000163
MW 6	11/17/09	215408	<0.000133	<0.000281	<0.000535	<0.000960
MW 7	03/01/07	T16511-3	<0.00035	<0.00020	<0.00033	<0.00036
MW 7	06/01/07	T17665-3	<0.00021	<0.00023	<0.00035	<0.00055
MW 7	09/06/07	T18805-3	<0.00021	<0.00023	<0.00035	<0.00055
MW 7	11/13/07	T19776-3	<0.0005	<0.0005	<0.0005	<0.001
MW 7	02/26/08	T21030-3	<0.00021	<0.00023	<0.00035	<0.00055
MW 7	05/29/08	T22388-7	<0.00021	<0.00023	<0.00035	<0.00055
MW 7	08/18/08	T23521-3	<0.0005	<0.0005	<0.0005	<0.001
MW 7	11/20/08	180225	<0.00100	<0.00100	<0.00100	<0.00100
MW 7	02/18/09	187828	<0.00100	<0.00100	<0.00100	<0.00100
MW 7	05/20/09	9052219	<0.000149	<0.000188	<0.000178	<0.000163
MW 7	08/27/09	9083115	0.0008 J	<0.000188	<0.000178	0.0014
MW 7	11/17/09	215409	0.0031	<0.000281	<0.000535	0.0039
MW 11	03/01/07	T16511-4	<0.00035	<0.00020	<0.00033	<0.00036
MW 11	06/01/07	T17665-4	<0.00021	<0.00023	<0.00035	<0.00055
MW 11	09/06/07	T18805-4	<0.00021	<0.00023	<0.00035	<0.00055
MW 11	11/13/07	T19776-4	<0.0005	<0.0005	<0.0005	<0.001
MW 11	02/26/08	T21030-4	<0.00021	<0.00023	<0.00035	<0.00055
MW 11	05/29/08	T22388-11	<0.00021	0.0003 J	<0.00035	<0.00055
MW 11	08/18/08	T23521-4	<0.0005	<0.0005	<0.0005	<0.001
MW 11	11/20/08	180226	<0.00100	<0.00100	<0.00100	<0.00100
MW 11	02/18/09	187829	<0.00100	<0.00100	<0.00100	<0.00100
MW 11	05/20/09	9052219	<0.000149	<0.000188	<0.000178	<0.000163
MW 11	08/27/09	9083115	<0.000149	<0.000188	<0.000178	<0.000163
MW 11	11/17/09	215410	<0.000133	<0.000281	<0.000535	<0.000960

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Plains Pipeline, L.P.
SRS No. 2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.010	0.750	0.750	0.620
MW 12	03/01/07	T16511-5	<0.00035	<0.00020	<0.00033	<0.00036
MW 12	06/01/07	T17665-5	<0.00021	<0.00023	<0.00035	<0.00055
MW 12	09/06/07	T18805-5	<0.00021	<0.00023	<0.00035	<0.00055
MW 12	11/13/07	T19776-5	<0.0005	<0.0005	<0.0005	<0.001
MW 12	02/26/08	T21030-5	<0.00021	<0.00023	<0.00035	<0.00055
MW 12	05/29/08	T22388-12	<0.00021	<0.00023	<0.00035	<0.00055
MW 12	08/18/08	T23521-5	<0.0005	<0.0005	<0.0005	<0.001
MW 12	11/20/08	180227	<0.00100	<0.00100	<0.00100	<0.00100
MW 12	02/18/09	187830	<0.00100	<0.00100	<0.00100	<0.00100
MW 12	05/20/09	9052219	**0.0171**	<0.000188	<0.000178	0.0019
MW 12	08/27/09	9083115	**0.0281**	<0.00094	<0.00089	<0.000815
MW 12	11/17/09	215411	**0.0359**	<0.000281	<0.000535	<0.000960
MW 13	11/20/08	180228	**1.51**	<0.0100	<0.0100	0.126
MW 13	02/18/09	187831	**0.923**	<0.00100	<0.00100	0.0456
MW 13	05/20/09	9052219	**1.56**	<0.00562	<0.0107	0.1190
MW 13	08/27/09	9083115	**2.73**	<0.0166	<0.0115	0.1770
MW 13	11/17/09	215412	**2.52**	<0.00664	<0.00460	0.112

[a] Result is from Run #2.
[b] Laboratory control spike recovery outside control limits. All reportable hits are considered to be an Concentration in **Bold** = above NMOCD Criteria

TABLE 4
BTEX GROUNDWATER SAMPLE ANALYTICAL RESULTS for Wells with PSH
Plains Pipeline, L.P.
SRS No. 2002-10235
Hugh Gathering
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.010	0.750	0.750	0.620
MW-1	25-May-08	T22388-1	**10.90**	**6.34**	**1.66**	**3.78**
MW-1	28-May-09	197472	**5.34**	**3.52**	**1.07**	**2.32**
MW-2	25-May-08	T22388-2	**2.18**	0.0439 J	0.462	0.527
MW-2	27-May-09	197473	**1.53**	<0.0166 U	0.237	0.21
MW-3	25-May-08	T22388-3	**5.48**	0.215	0.0347 J	0.328
MW-3	28-May-09	197474	**0.428**	<0.00332 U	0.0071 J	0.0257
MW-4	25-May-08	T22388-4	**0.947**	0.0343	0.311	0.527
MW-4	27-May-09	197475	**0.551**	<0.0166 U	0.261	0.324
MW-8	25-May-08	T22388-8	**6.12**	0.33	**0.96**	**1.59**
MW-8	27-May-09	197476	**4.270**	0.0745	0.642	0.546
MW-9	25-May-08	T22388-9	**3.48**	**2.04**	0.72	**1.40**
MW-9	27-May-09	197477	**0.479**	0.209	0.115	0.232
MW-10	25-May-08	T22388-10	**0.40**	0.0341	0.0892	0.0932
MW-10	27-May-09	197478	**0.361**	0.0104	0.0827	0.0948

[a] Result is from Run #2.
Concentration in **Bold** = above NMOCD Criteria

TABLE 5
GROUNDWATER ANALYTICAL RESULTS for POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)
Plains Pipeline, L.P.
SRS No. 2002-10235
Hugh Gathering
Lea County, New Mexico

Monitoring Well	Sample Date	Lab ID	Acenapthylene	Acenapthene	Flourene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[j,k]-fluoranthene	Benzo[a]-pyrene	Indeno[1,2,3-cd]-pyrene	Dibenzofuran	Dibenz[a,h]-anthracene	Benzo[g,h,i]-perylene	1-Methylnaphthalene	2-Methylnaphthalene	Napthalene	Total Naphthalenes	TPH-GRO (C6-C10)	TPH (C10-C28)
NMOCD Target Level 30 µg/L			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)
Other regulatory limits (Tap Water)*				365	243	1100	1830	1460	183	0.91	29.1	0.91	9.1	0.7**	0.91		0.091					30**		
MW-1	2-Mar-06	NA																						
MW-1	1-Jun-07	NA																						
MW-1	25-May-08	T22388-1	<81	<73	<100	862	<89	<81	<57	<71	<65	<74	<80	<78	<120		<63	<120		**3830**	**2,920**	**6,750**	85.3	1570[a]
MW-1	28-May-09	9060112	<0.353	<0.654	5.72	9.45	<0.404	2.76	2.43	**2.13**	3.12	<0.315	<0.382	<0.253	<0.400	6.39	<0.279	<0.314	63	**63.7**	**59.2**	**186**	48.3	1290[b]
MW-2	2-Mar-06	NA																						
MW-2	1-Jun-07	NA																						
MW-2	25-May-08	T22388-2	<1.6	<1.5	<2.1	3.2 J	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.6	<2.4		<1.3	<2.5		19.1	24.5	**43.6**	11.6	8.43
MW-2	27-May-09	9060112	<0.0703	<0.130	0.713	2.15	<0.0803	<0.0875	<0.0456	<0.0301	<0.0908	<0.0627	<0.0761	<0.0503	<0.0797	2.11	<0.0555	<0.0624	23.6	21	25.4	**46.4**	7.74 J	<0.876
MW-3	2-Mar-06	NA																						
MW-3	1-Jun-07	NA																						
MW-3	25-May-08	T22388-3	<1.6	<1.5	<2.1	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.6	<2.4		<1.3	<2.5		7.5	17.3	24.8	18.2	0.392
MW-3	28-May-09	9060112	<0.0710	<0.131	<0.0527	<0.0511	<0.0811	<0.0883	<0.0460	<0.0304	<0.0917	<0.0633	<0.0768	<0.0508	<0.0805	0.197	<0.0560	<0.0631	<0.0693	<0.0471	<0.0676	<0.00471	1.73 J	<0.876
MW-4	2-Mar-06	NA																						
MW-4	1-Jun-07	NA																						
MW-4	25-May-08	T22388-4	<1.6	<1.5	<2.1	4.1 J	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.6	<2.4		<1.3	<2.5		29.6	**32.5**	**62.1**	7.62	25.1
MW-4	27-May-09	9060112	<0.352	<0.651	<0.261	12	<0.402	<0.438	<0.228	<0.150	<0.454	<0.314	<0.381	<0.252	<0.399	9.35	<0.278	<0.312	103[c]	**89.4**	**89.3**	**178.7**	5.01 J	9.14
MW-5	2-Mar-06	177440	<0.05	<0.05	0.060	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05			7.08	7.1		
MW-5	1-Jun-07	T17665	<2.4	<2.3	<2.3	<2.7	<2.7	<2.9	<3.6	<3.6	<3.2	<2.8	<3.0	<3.0	<2.5		<2.9	<2.7			2.7 J	2.7 J		
MW-6	2-Mar-06	177441	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05			0.574	0.6		
MW-6	1-Jun-07	T17665	<2.4	<2.3	<2.3	<2.7	<2.7	<2.9	<3.6	<3.6	<3.2	<2.8	<3.0	<3.0	<2.5		<2.9	<2.7			<1.6	<1.6		
MW-7	2-Mar-06	177442	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05			0.649	0.6		
MW-7	1-Jun-07	T17665	<2.4	<2.3	<2.3	<2.7	<2.7	<2.9	<3.6	<3.6	<3.2	<2.8	<3.0	<3.0	<2.5		<2.9	<2.7			<1.6	<1.6		
MW-8	2-Mar-06	NA																						
MW-8	1-Jun-07	NA																						
MW-8	25-May-08	T22388-8	<16.0	<15.0	<21.0	68.2	<18.0	<16.0	<11.0	<14.0	<13.0	<15.0	<16.0	<16.0	<24.0		<13.0	<25.0		**512**	**273**	**785.0**	26.1	157
MW-8	27-May-09	9060112	<0.353	<0.654	<0.262	7.05	<0.404	<0.440	<0.229	<0.151	<0.456	<0.315	<0.382	<0.253	<0.400	5.05	<0.279	<0.314	57.5	**59.6**	**68.5**	**185.6**	18.9	<0.876
MW-9	2-Mar-06	NA																						
MW-9	1-Jun-07	NA																						
MW-9	25-May-08	T22388-9	<1.6	<1.5	<2.1	2.1 J	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.6	<2.4		<1.3	<2.5		18.3	29	**47.3**	20.3	24.8
MW-9	27-May-09	9060112	<0.353	<0.654	<0.262	5.09	<0.404	<0.440	<0.229	<0.151	<0.456	<0.315	<0.382	<0.253	<0.400	3.50	<0.279	<0.314	36.5	**34.4**	**31**	**101.9**	3.73	3.40 J

TABLE 5
GROUNDWATER ANALYTICAL RESULTS for POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)
Plains Pipeline, L.P.
SRS No. 2002-10235
Hugh Gathering
Lea County, New Mexico

Monitoring Well	Sample Date	Lab ID	Acenapthylene	Acenapthene	Flourene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[j,k]-fluoranthene	Benzo[a]-pyrene	Indeno[1,2,3-cd]-pyrene	Dibenzofuran	Dibenz[a,h]-anthracene	Benzo[g,h,i]-perylene	1-Methylnaphthalene	2-Methylnaphthalene	Napthalene	Total Naphthalenes	TPH-GRO (C6-C10)	TPH (C10-C28)
NMOCD Target Level 30 µg/L			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)
Other regulatory limits (Tap Water)*				**365**	**243**	**1100**	**1830**	**1460**	**183**	**0.91**	**29.1**	**0.91**	**9.1**	**0.7****	**0.91**		**0.091**					**30****		
MW-10	2-Mar-06	NA																						
MW-10	1-Jun-07	NA																						
MW-10	25-May-08	T22388-10	<1.6	<1.5	<2.1	1.9 J	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.6	<2.4		<1.3	<2.5		6.2	5.3	11.5	2.17	7.62
MW-10	27-May-09	9060112	<0.0710	<0.131	<0.0527	1.51	<0.0811	<0.0883	<0.0460	<0.0304	<0.0917	<0.0633	<0.0768	<0.0508	<0.0805	1.14	<0.0560	<0.0631	8.49	7.67	7.63	23.8	2.12	<0.876
MW-11	2-Mar-06	177443	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05			0.577	0.6		
MW-11	1-Jun-07	T17665	<2.4	<2.3	<2.3	<2.7	<2.7	<2.9	<3.6	<3.6	<3.2	<2.8	<3.0	<3.0	<2.5		<2.9	<2.7			<1.6	<1.6		
MW-12	2-Mar-06	177461	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05			0.548	0.5		
MW-12	1-Jun-07	T17665	<2.4	<2.3	<2.3	<2.7	<2.7	<2.9	<3.6	<3.6	<3.2	<2.8	<3.0	<3.0	<2.5		<2.9	<2.7			<1.6	<1.6		

Bold *values exceed NMWQCC groundwater standards*
All data prior to 2007 collected by EPI
Tap Water* = NMED Tap Water Soil screening levels for residential scenarios.
** = NM Water Quality Standard
NA - Not Available
(a) Surrogate recovery outside control limits due to dilution.
(b) Surrogate recovery outside control limits due to peak interference (Well MW-1 contains measurable product thickness, the result may possibly be estimated concentration with a high bias)
(c) Estimated concentration value greater than the standard range

TABLE 6
2009 MONTHLY PSH AND DISSOLVED PHASE GROUNDWATER RECOVERY DATA
Plains Pipeline, L.P.
SRS #2002-10235
Hugh Gathering
Lea County, New Mexico

Month	Volume of PSH recovered in gallons	Volume of dissolved phase groundwater recovered in gallons
January	20.75	148.25
February	8.25	188.75
March	9.70	287.80
April	10.20	214.80
May	19.25	230.75
June	12.00	144.50
July	18.25	186.75
August	16.00	115.00
September	21.25	216.75
October	8.00	203.50
November	13.00	175.50
December	29.00	324.50
Total	185.65	2436.85

APPENDIX C

2009 Analytical Laboratory Reports

(Available on CD attached to back cover)

1st Quarter 2009 Analytical Reports– 9021906

2nd Quarter 2009 Analytical Reports– 9052219, 9060112

3rd Quarter 2009 Analytical Reports– 9083115

4th Quarter 2009 Analytical Reports– 9112011

APPENDIX D

C-141 NMOCD Release Notification Form

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR "INFORMATION ONLY NON-REPORTABLE" ☒ Initial Report ☐ Final Report

Name of Company	Contact
EOTT Energy Pipeline	Frank Hernandez
Address	**Telephone No.**
5805 East Highway 80 / P.O. Box 1660, Midland, TX 79703	915.638.3799
Facility Name	**Facility Type**
Linman Line #2002-10235	6" Crude Oil Pipeline

Surface Owner	Mineral Owner	Lease No.
Sec 12: W. McNeill Sec 11: J.A. Bryant		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
M	12							Lat.: 32°29'11"N
P	11	21S	37E					Lon:103°07'31"W

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil	50 bbls	0 bbls
Source of Release	**Date and Hour of Occurrence**	**Date and Hour of Discovery**
6" Steel Pipeline	Sometime before 9-4-02	9-4-02 1:00 PM
Was Immediate Notice Given?	**If YES, To Whom?**	
☒ Yes ☐ No ☐ Not Required	Paul Sheeley, Hobbs NMOCD (9-12-02)	
By Whom?	**Date and Hour: Initially considered to be <1 bbl. Revised to 50 bbl on 9-12-02. NMOCD notified on 9-12-02 4:00 PM**	
Pat McCasland (Environmental Plus, Inc.)		
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.**	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The cause of the release was internal/external corrosion. The line has been replaced. Contaminated soil is stockpiled on a plastic barrier on site awaiting remediation.

Describe Area Affected and Cleanup Action Taken.*
Oily spots less than 3' in diameter were initially observed around the vents of the pipeline conduit that passes under NMSR18. During replacement activities, the soil in the ditch line and around the conduit ends were observed to impacted. The east side Sec 12 Spill Area = ~326 ft^2 55' X 10'. The west side Sec 11 Spill Area = ~936 ft^2 98'X 12'. Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated. Soil within the NMSR18 may also be contaminated in the subsurface.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Frank Hernandez	**OIL CONSERVATION DIVISION**	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: September 12, 2002 Phone: 915.638.3799	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action - Informational

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company: **Plains Pipeline, L.P.**	Contact: **Camille Reynolds**
Address **PO Box 1660 5805 East Highway 80 Midland, Texas 79702**	Telephone No. **505.393.5611**
Facility Name **Hugh Gathering 090402 # 2002-10235**	Facility Type **6" Steel Pipeline**
Surface Owner: **Bryant**	Mineral Owner / Lease No.

LOCATION OF RELEASE

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

Latitude: 3229'11.007"N **Longitude:** 10307'33.864"W

NATURE OF RELEASE

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

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
6" Steel Pipeline **The leak was due to internal/external corrosion. Near surface impacted soil was disposed of in an NMOCD approved landfarm.**

Describe Area Affected and Cleanup Action Taken.*
100 sqft 10' X 10': Site delineated. Remedial Goals: TPH 8015m = 1000 & 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@PAALP.com	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: 9/6/2002 Phone: 505.393.5611		

Attach Additional Sheets If Necessary