

1R - 463

# WORKPLANS

DATE:

Dec. '09

**GROUNDWATER WORK PLAN  
D S HUGH 4-INCH GATHERING LINE**

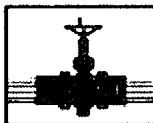
**PLAINS SRS NO. 2000-10807**

**UL-A, SECTION 26, T21S, R37E**

**LEA COUNTY, NEW MEXICO**

**NMOCD NO: 1R - 0463**

**PREPARED FOR**



**PLAINS  
PIPELINE, L.P.**

**RECEIVED**

**DEC 15 2009**

Environmental Bureau  
Oil Conservation Division

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**Project No. 205071.00**

**December 2009**

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December 10, 2009

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

RECEIVED  
DEC 15 2009  
Environmental Bureau  
Oil Conservation Division

Re: Groundwater Work plan for  
Vacuum to Jal 14" Mainline #3  
Vacuum to Jal 14" Mainline #5  
D S Hugh 4-inch Gathering Line

Dear Mr. Hansen:

Please find enclosed the Groundwater Work Plans submitted by Premier Environmental Services, Inc. (Premier) on behalf of Plains Pipeline, L.P. (Plains) for each of 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 4-inch Gathering Line; NMOCD # 1R - 0463; Plains SRS # 2000 - 10807

Each Work Plan describes the site specific remediation approach that will be implemented at the site to achieve closure for affected groundwater. If you have any questions or concerns, please feel free to contact us at (281) 240-5200.

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 (2 copies)  
Premier Environmental Services

Enclosures

Groundwater Work Plan - Vacuum to Jal 14" Mainline #3  
Groundwater Work Plan - Vacuum to Jal 14" Mainline #5  
Groundwater Work Plan - D S Hugh 4-inch Gathering Line

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**DISCLAIMER**

*Premier has examined and relied upon the file information provided by Plains and Environmental Plus, Inc. (EPI) for the preparation of the Groundwater Work Plan. 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.*

## 1.0 INTRODUCTION AND SITE HISTORY

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Premier Environmental Services, Inc. (Premier) on behalf of Plains Pipeline, L.P. (Plains) is submitting this Groundwater Work Plan to the New Mexico Oil Conservation Division (NMOCD) for remediation of groundwater at the Plains D S Hugh 4" Gathering line (DS Hugh, "site") crude oil pipeline release site in Lea County, New Mexico.

The site is located in T21S, R37E, Section 26 of Lea County, New Mexico, approximately two miles east of Eunice, New Mexico (See Site Location Map - **Figure 1, Appendix A**). The hydrocarbon impact is a result of a 20 barrel crude oil release into the subsurface that occurred on November 10, 2000. The leak apparently occurred due to pipeline corrosion. The pipeline was subsequently repaired. At the time of the release, the pipeline was owned by EOTT, Inc. and is currently owned by Plains. The release was reported by EOTT to the NMOCD on November 10, 2000 at 2:25 p.m. Approximately five barrels of product were reportedly recovered during the initial response of the approximately 20 barrels released into the subsurface. The NMOCD Release Notification form is enclosed in **Appendix C**.

The affected soil was excavated and temporarily placed on a plastic liner. Delineation of potential contamination was initiated at the site in 2005 through the collection of soil and groundwater samples from soil borings and groundwater monitor wells. Soil and groundwater delineation continued with a groundwater investigation in March 2006, and included the installation of three monitor wells MW-1 through MW-3. Additional soil and groundwater investigation was conducted in May 2006 to delineate the extent of hydrocarbon contamination in the groundwater. During this investigation, monitor wells MW-4 through MW-7 were advanced (see Site Map - **Figure 2, Appendix A**).

Based on these investigations, a Soil Remediation Plan dated May 2006, was prepared and submitted to the NMOCD. The soil remediation plan was approved by the NMOCD via a letter dated June 12, 2006 to Plains.

The objective of the Soil Remediation Plan was to excavate the most heavily contaminated soil, isolate and control residual constituents of concern (COCs) in the soil, and to prevent further impact to groundwater by the placement of an impermeable liner at the base of the excavation. The remediation plan was implemented in October 2006 and a Soil Closure Report was submitted to the NMOCD in March 2007. Soil remediation activities conducted at the site, indicate that the risk-based NMOCD cleanup criteria for soil at this site have been met and therefore, the soil remediation activities at this site are considered complete. This work plan addresses the groundwater remediation options only. Current on-site remediation activities conducted are reported to the NMOCD on an annual basis during the first quarter of each year.

## **2.0 GEOLOGICAL DESCRIPTION**

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### **2.1 Regional Geology**

The site is located in Lea County, New Mexico. In Lea County, bedrock frequently crops out or is thinly veneered with alluvium and eolian dune sands. The bedrock outcrops range from Triassic age strata rocks to Pleistocene age sediments. The Recent Age Mescalero sands cover 80% of Lea County, and are described as fine to medium-grained and reddish brown in color. Lea County lies in the Pecos Valley Section of the Great Plains Province, very near the Southern High Plains to the east. The Tertiary Age Ogallala Formation underlies all of the High Plains and mantles several ridges in Lea County.

The site is located on the Kimbrough gravelly loam within the Kimbrough-Lea association type soils. This soil complex is found on prairie uplands and is locally known as "scabland". This association consists of nearly level and gently sloping, gravelly and loamy soils that are very shallow to moderately deep, to indurated caliches.

The average surface elevation ranges from 3,770 to 3,775 feet above mean sea level with the average surface topography sloping to the south and southeast at approximately ten (10) to fifteen (15) feet per mile. The groundwater gradient in the region appears to reflect the topography with similar slope to the south and southeast with local variations.

### **2.2 Site Specific Geology/Hydrogeology**

The site is located in the Southern High Plains physiographic feature. Based on the examination of soil cuttings, the lithology at the site is consistent with eolian and ephemeral stream deposition. Interbedded clays and sands with calcified caliche layers indicate wind blown deposits with historic undulating groundwater capillary zones. Observation of topographical features in the area indicates wind generated sand dunes, somewhat stabilized with vegetation including mesquite and shinnery oak. Monument Draw bisects the area to the east of the site.

The water table currently ranges in depth locally from 45 to 65 feet below ground surface (bgs). The clay layers may act as an aquitard locally; however, they are rarely widespread or thick enough to be considered an aquiclude.

The New Mexico Office of The State Engineer database lists three water wells in Section 26, T21S, R37E. The total depth of two of these private use water wells appears to be 85 feet bgs and 100 feet bgs. The average depth to water is approximately 50 to 60 feet bgs. There are no municipal water wells or surface water bodies identified within 1,000 feet of the site.

### 3.0 REGULATORY FRAMEWORK

In New Mexico, the NMOCD oversees and regulates oil, gas and geothermal activities, including compliance with environmental regulations. Guidance for cleanup of crude oil releases is provided in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) document. Constituents of concern, or COCs, associated with crude oil releases include total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene and total xylenes (BTEX). Guidelines for these COCs in soil are evaluated based on a site ranking system. The ranking system estimates the likelihood of exposures to the COCs and is based on three parameters, specifically, depth to groundwater, wellhead protection area, and distance to the nearest surface water body, to protect groundwater and surface water resources.

#### 3.1 NMOCD Site Ranking Guidance – Initial Evaluation

The site was initially evaluated based on the information presented in the previous sections. Based on the proximity of the site to area water wells, surface water bodies, and depth to groundwater, the site has an NMOCD ranking score of 20 points, with the soil remedial goals highlighted in bold below in the Site Ranking Matrix.

**Table 3.1 – Site Ranking Matrix**

| 1. Groundwater                                                              | 2. Wellhead Protection Area                                                                 | 3. Distance to Surface Water Body  |          |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------|----------|
| If Depth to GW <50 feet:<br><i>20 points</i>                                | If <1000' from water source, or, <200' from private domestic water source: <i>20 points</i> | <200 horizontal feet: 20 points    |          |
| If Depth to GW 50 to 99 feet:<br><i>10 points</i>                           |                                                                                             | 200-100 horizontal feet: 10 points |          |
| If Depth to GW >100 feet:<br><i>0 points</i>                                | If >1000' from water source, or, >200' from private domestic water source: <i>0 points</i>  | >1000 horizontal feet: 0 points    |          |
| <b>Groundwater Score:20</b>                                                 | <b>Wellhead Protection Area Score: 0</b>                                                    | <b>Surface Water Score: 0</b>      |          |
| <b>Site Rank (1+2+3) =20+0+0=20</b>                                         |                                                                                             |                                    |          |
| <b>Total Site Ranking Score and Initial Guidance Cleanup Concentrations</b> |                                                                                             |                                    |          |
| <b>Parameter</b>                                                            | <b>20 or &gt;</b>                                                                           | <b>10</b>                          | <b>0</b> |
| Benzene <sup>1</sup>                                                        | <b>10 ppm</b>                                                                               | 10 ppm                             | 10 ppm   |
| BTEX <sup>1</sup>                                                           | <b>50 ppm</b>                                                                               | 50 ppm                             | 50 ppm   |
| TPH                                                                         | <b>100 ppm</b>                                                                              | 1000 ppm                           | 5000 ppm |

Soil remediation activities were completed at the site in October 2006 with the results submitted to the NMOCD. The results of the soil remediation activities indicate that the affected soil contaminant concentration met the risk-based NMOCD remediation criteria developed for this site. Therefore, soil remediation at the site is considered complete and

only groundwater currently requires remediation. This work plan proposes the implementation of monitored natural attenuation as a remediation approach along with source reduction achieved through weekly recovery activities.

## 4.0 GROUNDWATER REMEDIATION PLAN

### 4.1 Current Site Conditions

Groundwater gauging and sampling activities conducted from 2005 to present indicated the presence of phase separated hydrocarbon (PSH) on the surface of groundwater only in monitor well MW-1.

Ongoing groundwater monitoring activities include:

- Weekly gauging of monitor well with PSH, (monitor well MW-1), and recovery of hydrocarbon sheen and dissolved-phase hydrocarbons from monitor well MW-4;
- Quarterly groundwater sampling of six monitor wells (monitor wells MW-2 through MW-7) for the analysis of BTEX constituents; and
- Annual groundwater sampling of monitor well MW-1 for Polynuclear Aromatic Hydrocarbons (PAHs) and BTEX constituents.

Groundwater gauging data for 2008 and 2009 (up to October 2009) are summarized in **Table 1, Appendix B** and the groundwater elevations are contoured quarterly to obtain the groundwater flow direction. The groundwater gradient at this site is currently flowing toward a southeasterly direction. A groundwater contour map indicating the groundwater flow direction, based on the gauging data obtained during the 3<sup>rd</sup> quarter 2009 groundwater sampling event is presented in **Figure 3, Appendix A**.

Based on the groundwater gauging data collected on October 7, 2009, the groundwater gradient across the site was determined to be 0.009 foot/foot between monitor wells MW-2 and MW-6 across the site. This indicates that the groundwater gradient at this site is relatively flat.

Based on the groundwater flow direction and the site layout, the locations of the monitor wells with respect to the on-site hydrocarbon plume are as follows:

- Monitor wells in the plume: MW-1, and MW-4
- Monitor wells upgradient of the plume: MW-3
- Monitor wells cross (side) gradient of the plume: MW-2 and MW-5
- Monitor wells downgradient of the plume: MW-6 and MW-7

#### Groundwater gauging and PSH recovery

Ongoing weekly gauging and recovery activities indicate that measurable PSH is currently being observed only in monitor well MW-1, and is currently indicating a decreasing trend with approximately 0.11 feet of PSH in January 2009 decreasing to only a hydrocarbon sheen in October 2009 (**Table 1, Appendix B**). No PSH or hydrocarbon sheen was observed in any of the other wells.

Recovery activities are conducted weekly with PSH and dissolved phase hydrocarbon recovered from monitor well MW-1 and only dissolved phase hydrocarbon is recovered from monitor well MW-4. Weekly hydrocarbon recovery and gauging activities result in a recovery of approximately 20 gallons of dissolved phase groundwater and entrained PSH from each well every week. The approximate recovery volumes are also presented in **Table 1, Appendix B**.

#### Groundwater Analytical Data Evaluation

Starting in 2008, pursuant to the request of the NMOCD, monitor wells with PSH or hydrocarbon sheen are required to be sampled on an annual basis to document BTEX and PAH constituent concentrations. Since 2008, only two groundwater samples were collected from monitor well MW-1. Therefore, an authoritative trend could not be determined from the analytical results reported from the groundwater samples collected. Monitor wells MW-2 through MW-7 are purged and sampled quarterly and are analyzed for BTEX constituent concentrations.

As part of evaluation procedures, the detected COC concentrations are compared directly to the New Mexico Water Quality Standards for groundwater (NMAC 20.6.2.3103) of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 mg/L for total xylenes.

Analytical data indicates that only the sample collected from a downgradient monitor well MW-4, has reported detectable concentrations of benzene, indicating the presence of the dissolved phase plume extending to this well. Also, past analytical data reported for groundwater samples from monitor well MW-4 indicate a decreasing trend in the benzene concentrations over the previous six quarters (with exception of the 1<sup>st</sup> Quarter 2009 benzene concentration) as shown in **Table 2, Appendix B**.

Groundwater samples from monitor wells MW-2 through MW-7 are also analyzed each quarter for other constituents such as toluene, ethylbenzene, and total xylenes. These remaining constituents were always reported below the NMOCD remediation criteria in all the monitor wells from the beginning of the sampling period (i.e. 4<sup>th</sup> quarter 2005).

Analytical data collected for all quarterly groundwater sampling events is summarized in **Table 2 and Table 3 in Appendix B**. The first three quarterly events data for 2009, including BTEX (PAH for 2<sup>nd</sup> quarter sampling event only) concentrations and the PSH thickness are presented on a site layout map to indicate the spatial distribution of the COCs at the site (see **Figures 4A, 4B(i), 4B(ii) and 4C in Appendix A**). Benzene concentration variation with time for monitor well MW-4 is presented graphically in **Figure 5, Appendix A** and is discussed further in **Section 4.2**.

#### **4.2 Monitored Natural Attenuation – Proposed Remediation Approach**

Based on the available historical groundwater sampling data from well MW-4, a decreasing trend in benzene concentration has been observed. **Figure 5, Appendix A** presents the

variation in benzene concentration in groundwater sample from monitor well MW-4 with time. The graph indicates decreasing benzene concentration. This decrease is attributable to the on-going PSH and dissolved phase hydrocarbon removal or that the current geochemical conditions at this site are favorable for natural attenuation of hydrocarbons, or both.

Therefore, it is proposed to continue weekly removal of PSH sheen and/or dissolved phase groundwater from monitor wells MW-1 and MW-4, and in addition, monitor geochemical parameters to evaluate the subsurface conditions (monitored natural attenuation) to achieve groundwater remediation for this site.

A brief discussion of mechanisms associated with the monitored natural attenuation process is given below:

#### 4.2.1 Monitored Natural Attenuation

Monitored Natural Attenuation (MNA) relies on naturally occurring processes such as degradation (either biodegradation or abiotic processes such as hydrolysis), dispersion, diffusion, sorption, volatilization and dilution to control plume movement and reduce dissolved phase hydrocarbons in groundwater. Biodegradation involves chemical transformation of the hydrocarbon constituents into mineralized end products, such as carbon dioxide, water and salts, by naturally occurring microbes in soil and groundwater.

Of particular importance in this process of attenuation is the determination of whether the impacted area is controlled by anaerobic or aerobic conditions. Aerobic conditions exist under relatively oxygen-rich environments. In aerobic conditions, available oxygen and dissolved phase hydrocarbons are microbially digested to form carbon dioxide and water. Aerobic conditions are characterized by oxidized states of various ions notably ferric iron, nitrate, and sulfate. When the available oxygen is depleted, anaerobic conditions exist. Anaerobic conditions are characterized by reduced forms of various ions most notable are ferrous iron, ammonia, and sulfides.

Therefore, the variation in geochemical parameter concentrations such as dissolved oxygen (DO), nitrate ( $\text{NO}_3^-$ ), sulfate ( $\text{SO}_4^{2-}$ ), soluble ferrous iron ( $\text{Fe}^{+2}$ ) pH, oxidation reduction potential (ORP) are considered a measure of the geochemical state of the groundwater and therefore of the operative natural attenuation process.

**Table 4, Appendix B** presents a summary of the current sampling data and specifies the sampling objective for the evaluation of MNA parameters at select well locations. The table also shows the current sampling frequency and proposed future sampling frequency. Evaluation of the BTEX constituent concentrations and the geochemical data obtained from wells sampled according to the sampling plan in **Table 4, Appendix B** will be conducted on a quarterly basis to assess the subsurface plume conditions. These parameters, if monitored, can act as indicators of plume behavior in the subsurface environment. **Table 5, Appendix B** provides the field parameters that will be collected semi-annually.

#### **4.2.2 Enhanced Monitored Natural Attenuation**

Hydrocarbon degradation by natural attenuation is generally more conducive in an aerobic environment when compared to an anaerobic environment. In the event that site conditions change and dramatic increase in benzene concentrations are observed, MNA can be combined with other in-situ passive groundwater remediation technologies to enhance the attenuation process at this site. One of the in-situ treatment techniques that could enhance the natural attenuation processes at this site is the subsurface injection of air/oxygen or other oxygen releasing chemicals through the installation of injection points. Injection of air/oxygen, either directly through the addition of atmospheric air or via oxygen releasing chemicals enhances the rate of biodegradation in the impacted groundwater, thereby changing the existing anaerobic conditions to aerobic conditions thus enhancing the rate of biodegradation of the hydrocarbons. If necessary, these injection points would be strategically located in order to maximize the zones of influence.

If necessary, MNA can also be enhanced through the installation of an automated recovery system at the plume center as opposed to weekly manual bailing, to recover groundwater entrained with PSH and dissolved phase hydrocarbons on a more frequent basis. This could help more rapidly decrease the hydrocarbon mass in the plume. However, at this point in time, based on the limited amount of recoverable PSH, it is not warranted.

## 5.0 PLUME STABILITY ANALYSIS

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Understanding plume stability is an important step in the remedial planning process. For example, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not be a continued threat to human health and the environment. Upon removal or isolation of the hydrocarbon source, the size of a contaminant plume is influenced by a variety of physical, chemical, and biological processes and 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. At this site, the majority of the mass of the hydrocarbons has been removed and the residual hydrocarbons in the soil matrix in the release area have been isolated underneath 20-mil high density polyurethane reinforced impermeable liners. The residual hydrocarbons in groundwater are being removed weekly from monitor wells MW-1 and MW-4 to further reduce the hydrocarbon mass and help control plume migration in the downgradient direction.

A limited plume stability analysis will be presented in the annual reports and will include the development of benzene concentration isopleth maps for each quarterly sampling event. The plume characteristics such as area, average concentration, mass, and center of mass will be evaluated for each sampling event using numerical methods and engineering principles. A statistical trend analysis will then be conducted on the calculated values to assess the stability of the benzene plume.

## 6.0 GROUNDWATER MONITORING PROGRAM

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Quarterly monitoring of all six monitor wells that are currently not affected by PSH or hydrocarbon sheen will be continued through 2009. Starting in 2010, the sampling frequency for monitor wells MW-3, and MW-5 will be reduced to annual, based on three years of quarterly groundwater sampling data reporting COC concentrations below the regulatory limits.

Starting in first quarter 2010, groundwater samples will be collected for quarterly analysis from monitor wells MW-2, MW-4, MW-6, and MW-7 and analyzed for BTEX constituents. Select monitor wells will be sampled for MNA field parameters on a semi-annual basis as proposed in **Table 4, Appendix B**.

The analytical results and the MNA parameters will be compiled and summarized in an Annual Monitoring Report which is submitted to the NMOCD in the first quarter of each year.

The PSH and the dissolved phase hydrocarbon recovery activities will continue until the PSH thickness in the monitor well MW-1 is less than 0.01 feet. When the PSH thickness is less than 0.01 feet, monitor well MW-1 will be sampled on a quarterly basis to monitor the dissolved phase hydrocarbon concentration. Analytical data collected quarterly from the downgradient monitor wells MW-4, MW-6 and MW-7 will continue to be evaluated to ensure that COC concentrations are decreasing. Upon discontinuing the PSH recovery activities, if the concentrations of the COCs in the downgradient wells are reported to increase during two consecutive quarters, then dissolved phase hydrocarbon and/or PSH recovery activities will be resumed on a weekly basis. **Figure 6, Appendix A**, presents the frequency of sampling each well for the groundwater monitoring plan to be implemented starting 2010.

## 7.0 SUMMARY AND CONCLUSIONS

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The hydrocarbon impact at the site is the result of a 20-barrel crude oil release that occurred on November 10, 2000. The pipeline was owned by EOTT Energy, LLC (EOTT) at the time of the release, and is currently owned by Plains.

Approximately five barrels of the product were reportedly recovered during the initial response action. Soil remediation activities completed to date include excavation of the heavily impacted soils, placement of an impermeable liner and backfill of the excavation. These activities were documented and submitted to the NMOCD in the March 2007 Soil Closure Report. The initial response action and the soil remediation activities conducted at the site, resulted in achieving the site specific risk-based NMOCD remediation criteria established for soil. Therefore, only groundwater remediation is addressed in this work plan.

Currently, a total of seven monitor wells are active on site, out of which only monitor well MW-1, located within the plume, exhibits the presence of PSH or hydrocarbon sheen. Based on the well locations, benzene concentrations and PSH thicknesses, the groundwater hydrocarbon plume extent is sufficiently delineated.

Current hydrocarbon recovery activities on-site include manual bailing and/or use of absorbent socks to recover PSH and dissolved phase hydrocarbons present in the vicinity of monitor wells MW-1 and MW-4. Weekly recovery activities include removal of 20 gallons of PSH and dissolved phase hydrocarbons from each well.

Groundwater sampling of the six monitor wells is conducted on a quarterly basis and the samples collected are analyzed for BTEX constituents. Based on the analytical data, currently one monitor well, MW-4 indicates the presence of benzene in the groundwater sample at a concentration above the NMOCD regulatory limit. The variation of concentration of benzene from the groundwater samples collected from monitor well MW-4, with time have been graphically presented in **Figure 5 in Appendix A**. This figure indicates a general decreasing trend in the concentration of benzene.

The decreasing benzene concentration trend from monitor well MW-4 and the general decrease of PSH thickness in monitor well MW-1, are indicative of the effectiveness of the hydrocarbon recovery activities and the on-going natural attenuation at the site. Therefore, weekly recovery of PSH or hydrocarbon sheen and dissolved phase hydrocarbons from monitor wells MW-1 and MW-4 will be continued to control the plume from migration in the downgradient direction.

Semi-annual monitoring of geochemical parameters and quarterly/annual monitoring of BTEX constituents from select monitor well locations as recommended in **Table 5, Appendix B** will help evaluate the subsurface geochemical conditions and plume

movement. Plume stability analysis of these data will be conducted and a trend analysis using statistical methods will be completed.

PSH and dissolved phase groundwater recovery will continue until the PSH thickness decreases to less than 0.01 feet in monitor well MW-1. BTEX concentration, specifically in monitor well MW-4, will be monitored closely. If concentrations in monitor well MW-4 are reported to have an increasing trend in two consecutive quarterly sampling events, dissolved phase and/or PSH recovery activities will be resumed on site.

Currently all groundwater monitor wells, with the exception of monitor well MW-1 are purged and sampled for dissolved phase BTEX constituents quarterly. Upon approval of this groundwater work plan, future activities will include collecting samples for analysis of BTEX constituents and MNA parameters according to the schedule proposed in **Table 4, Appendix B**. The groundwater analytical data will be evaluated and the results will be summarized in an Annual Monitoring Report and submitted to the NMOCD in the first quarter of each year.

## DISTRIBUTION

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## **APPENDIX A**

### **Figures**

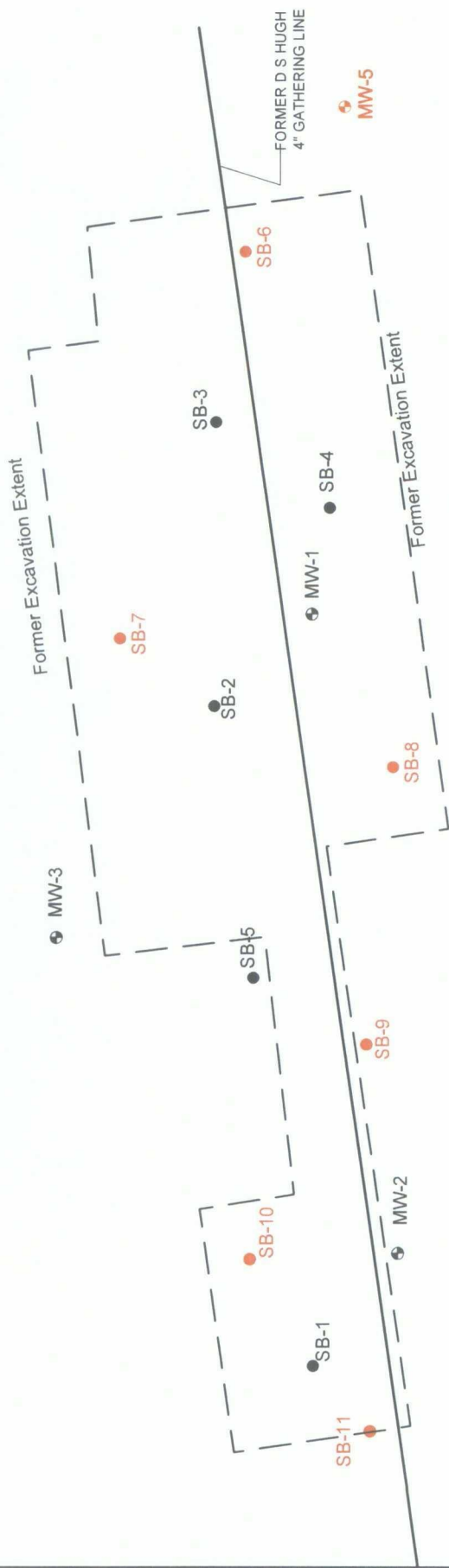


**Eunice Quadrangle**  
32°26'48"N Latitude & 103°08'07"W Longitude



Figure 1  
Site Location Map  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS. No.: 2000-10807  
Lea County, New Mexico

PROJ. NO: 205071.00 CK: DATE: 2/07



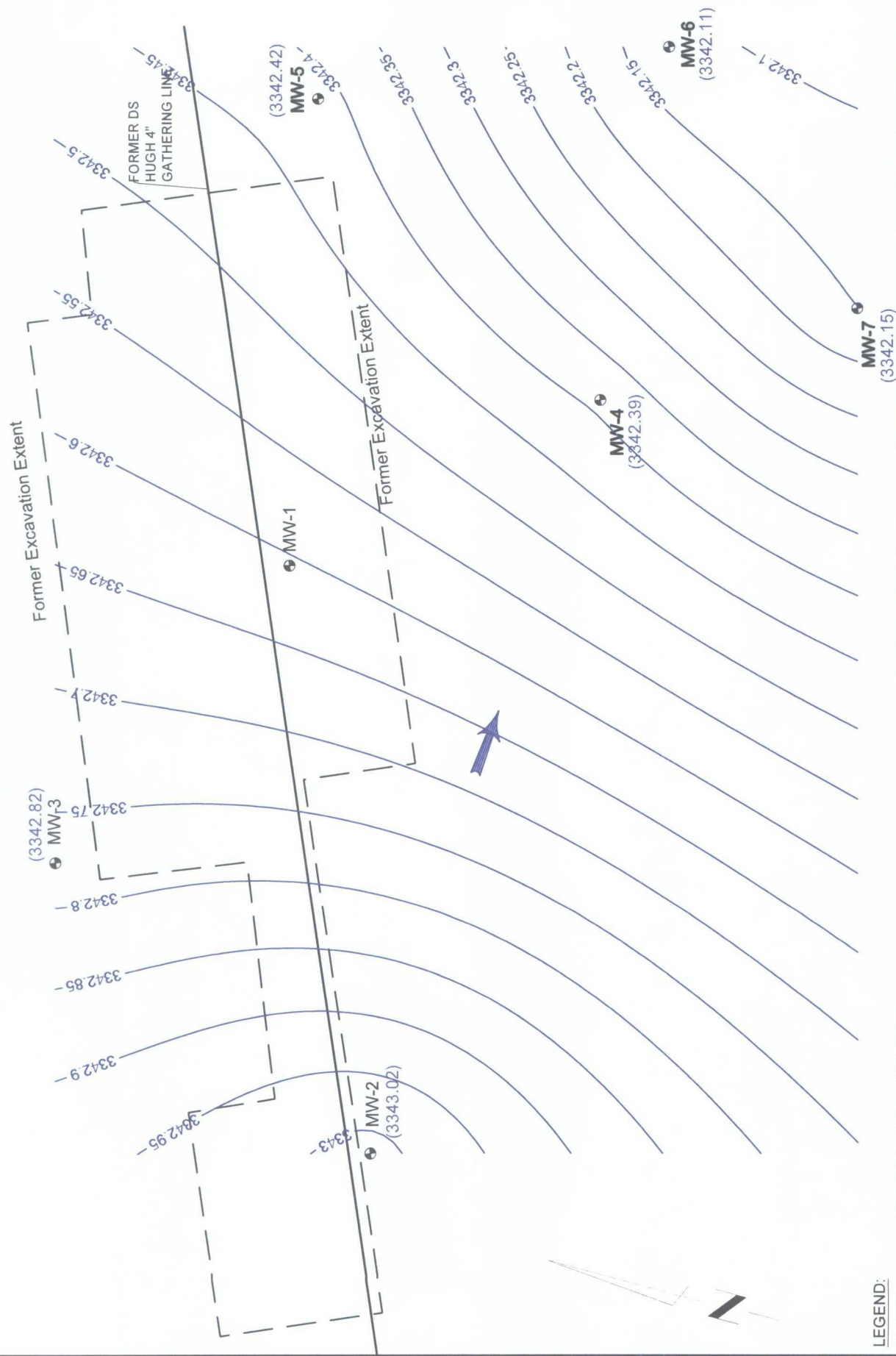
LEGEND:

- SB- SOIL BORING LOCATIONS INSTALLED IN 2006
- ⊕ MW- MONITOR WELL LOCATIONS INSTALLED IN 2006
- SB- SOIL BORING LOCATIONS INSTALLED IN 2005
- ⊕ MW- MONITOR WELL LOCATIONS INSTALLED IN 2005
- -- FORMER EXCAVATION EXTENT



Figure 2  
Site Map  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS. No.: 2000-10807  
Lea County, New Mexico





**LEGEND:**

- MW -
- (3343.05)
- 3342.15
- ➡

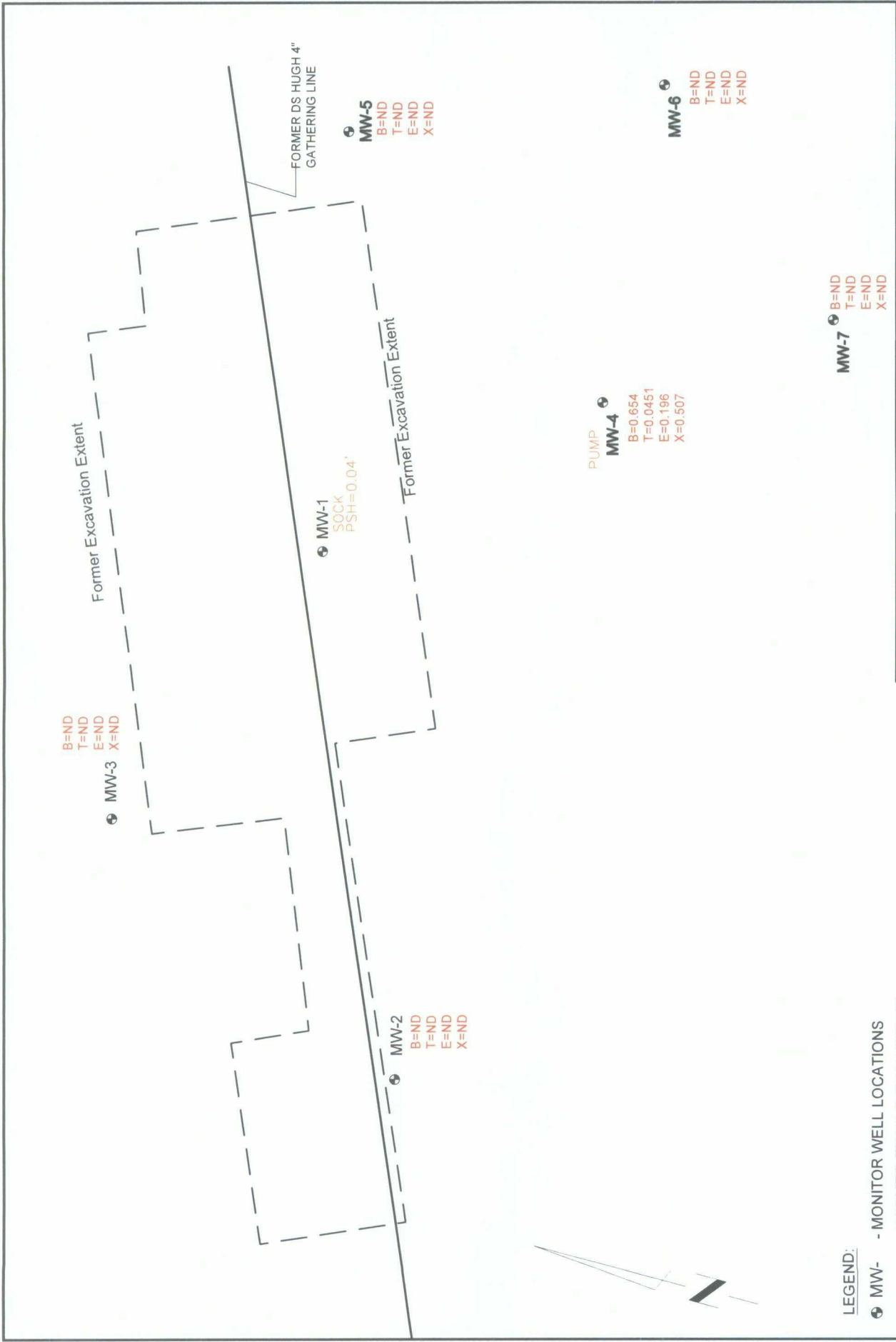
**MONITOR WELL LOCATIONS**

- FORMER EXCAVATION EXTENT
- Corrected Ground Water Elevation, ft.
- Ground Water Elevation Contour, ft.
- Contour Interval=0.05 ft.
- Apparent Ground Water Flow Direction

Note: MW1 not used to contour due to sock in well.



Figure 3  
3rd Quarter 2009 - Groundwater Gradient Map  
August 26, 2009  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS No.: 2000-10807  
Lea County, New Mexico  
PROJ. NO: 205071.00 CK: CBP DATE: 09/09



**LEGEND:**

- MW- - MONITOR WELL LOCATIONS
- - - FORMER EXCAVATION EXTENT

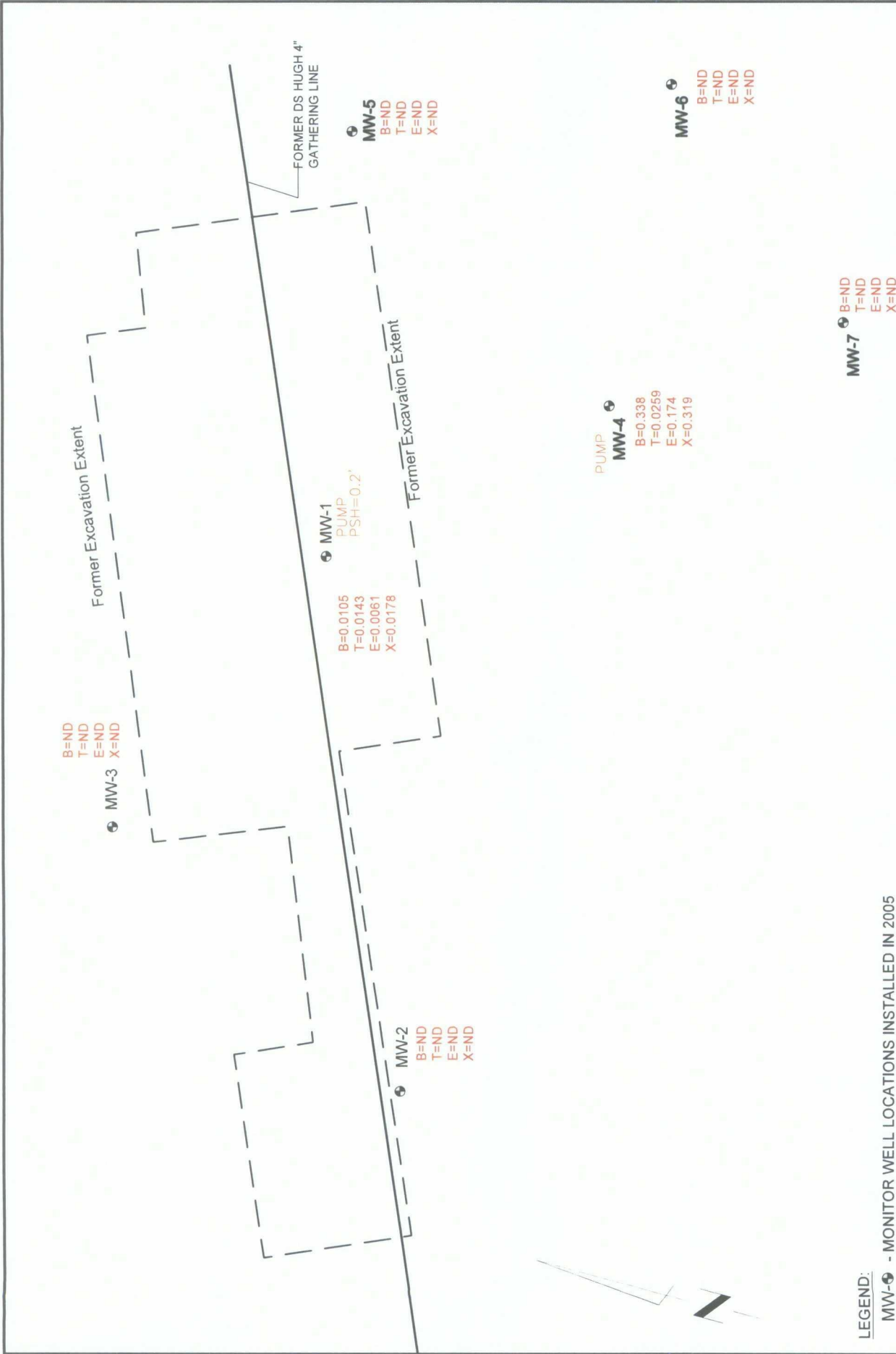
All Concentrations in mg/L.

B - Benzene  
T - Toluene  
E - Ethylbenzene  
X - Xylenes  
ND - Non-Detectable

**PREMIER**  
ENVIRONMENTAL SERVICES, INC.

Figure 4A  
1st Quarter 2009 - Contaminant Concentration Map  
February 17, 2009  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS, No.: 2000-10807  
Lea County, New Mexico

PROJ. NO: 205071.00 | CK: CBP | DATE: 02/09



**LEGEND:**

- MW-● - MONITOR WELL LOCATIONS INSTALLED IN 2005
- - - - FORMER EXCAVATION EXTENT

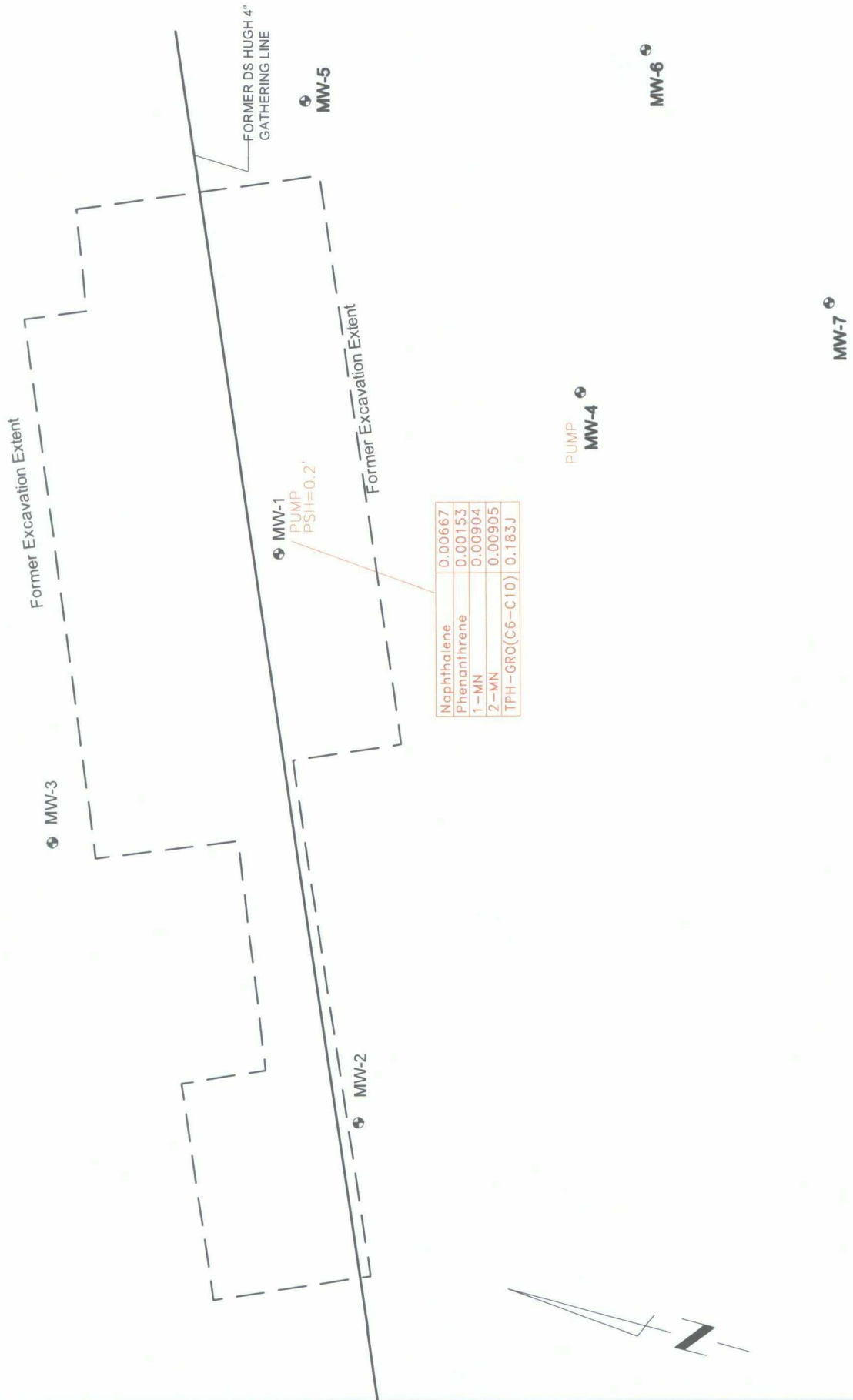
All Concentrations in mg/L.

B - Benzene  
T - Toluene  
E - Ethylbenzene  
X - Xylenes  
ND - Concentration below Lab SDLs

**PREMIER**  
ENVIRONMENTAL SERVICES, INC.

Figure 4B(i)  
2nd Quarter 2009 - Contaminant Concentration Map  
May 19, 2009  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS, No.: 2000-10807  
Lea County, New Mexico

PROJ. NO: 205071.00 CK: CBP DATE: 06/09



|                 |         |
|-----------------|---------|
| Naphthalene     | 0.00667 |
| Phenanthrene    | 0.00153 |
| 1-MN            | 0.00904 |
| 2-MN            | 0.00905 |
| TPH-GRO(C6-C10) | 0.183J  |

LEGEND:

- MW- - MONITOR WELL LOCATIONS INSTALLED IN 2005
- - - FORMER EXCAVATION EXTENT
- 1-MN: 1-Methylnaphthalene
- 2-MN: 2-Methylnaphthalene
- J=Indicates an Estimated Value
- All Concentrations in mg/L.



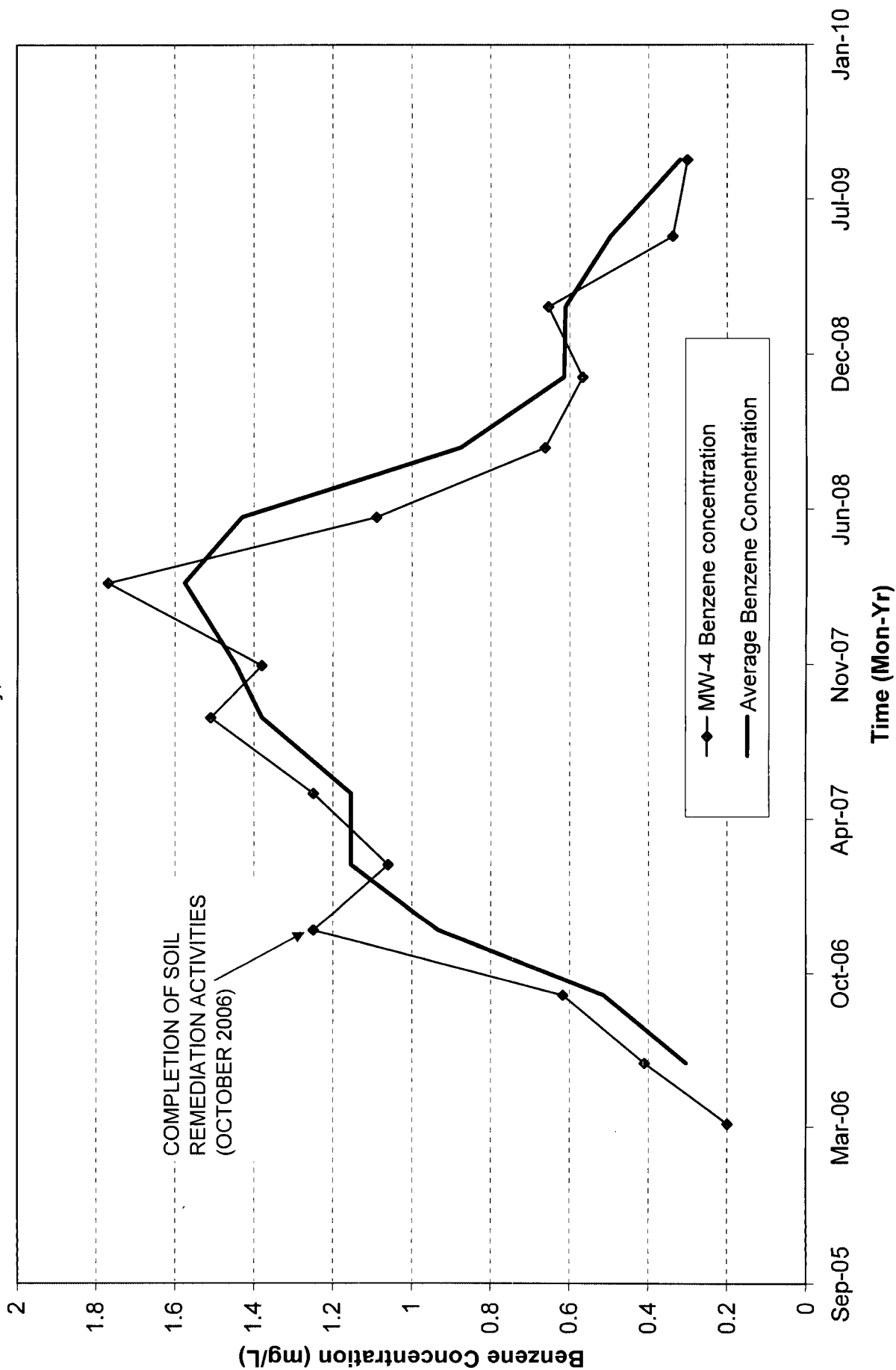
Figure 4B(ii)  
2nd Quarter 2009 - PAH Contaminant Concentration Map  
May 19, 2009  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS. No.: 2000-10807  
Lea County, New Mexico

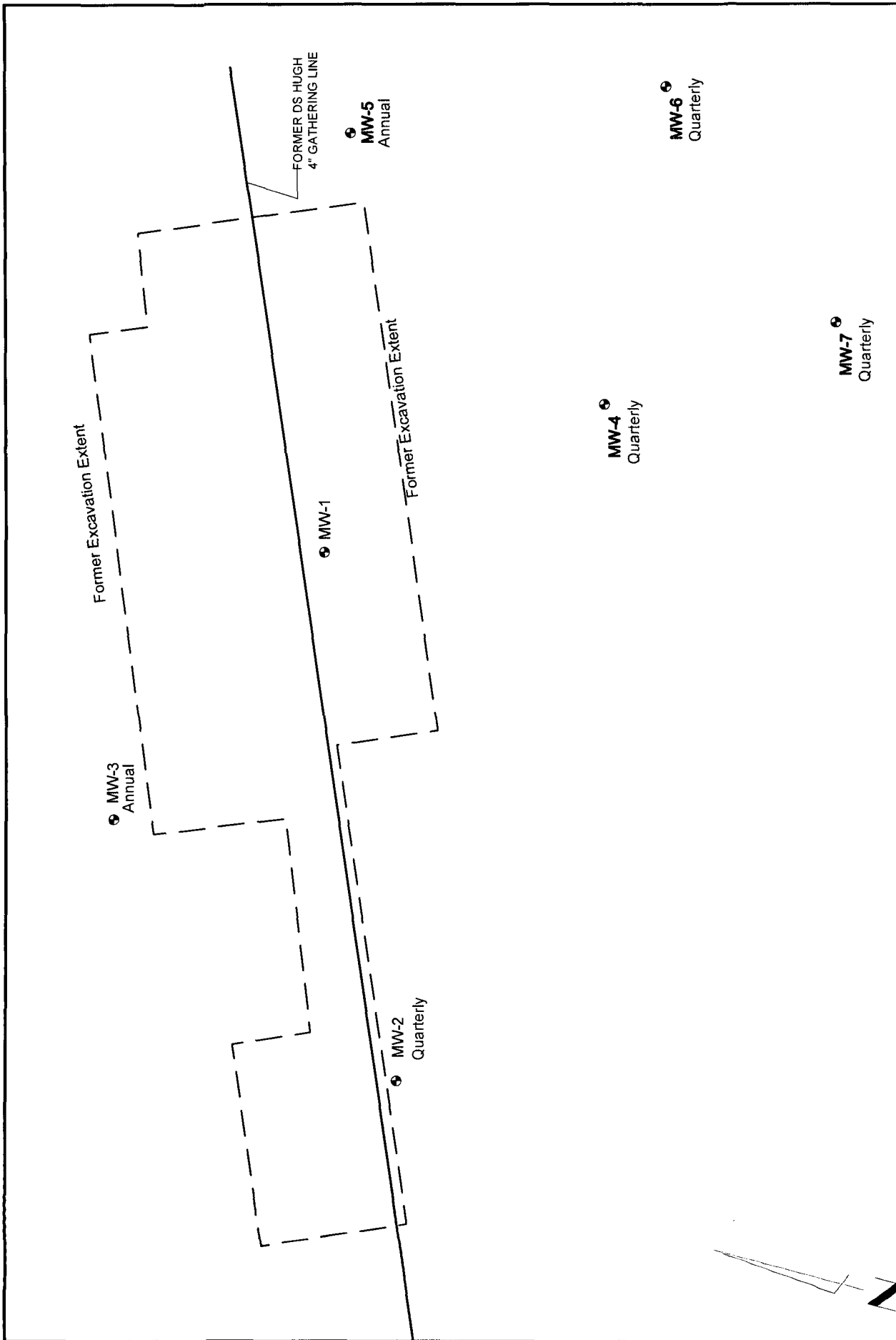
PROJ. NO: 205071.00 CK: CBP DATE: 06/09





**Figure 5**  
**Variation of Benzene Concentration with Time in MW-4**  
 D S Hugh Gathering 4" Line  
 Lea County, New Mexico





**LEGEND:**

- MW- - MONITOR WELL LOCATIONS
- - - - - FORMER EXCAVATION EXTENT

**PREMIER**  
ENVIRONMENTAL SERVICES, INC.

Figure 6  
Groundwater Monitoring Plan  
Plains Marketing L.P.  
D.S. Hugh Gathering 4" Line  
SRS. No.: 2000-10807  
Lea County, New Mexico

PROJ. NO: 205071.00 CK: CBP DATE: 11/09

## **APPENDIX B**

### **Tables**

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 01/09/08      | 3389.00                      | 58.55            | 45.55                 | 45.70               | 0.15               | New Sock        | NA            | NA              | 3343.43                              |
|             | 01/17/08      | 3389.00                      | 58.55            | 45.42                 | 45.92               | 0.50               | Bailed          | 0.5           | 19.5            | 3343.51                              |
|             | 01/17/08      | 3389.00                      | 58.55            | 45.60                 | 45.60               | 0.00               | New Sock        | NA            | NA              | 3343.40                              |
|             | 01/23/08      | 3389.00                      | 58.55            | 45.50                 | 45.65               | 0.15               | Bailed          | 0.25          | 9               | 3343.48                              |
|             | 01/23/08      | 3389.00                      | 58.55            | 45.75                 | 45.75               | 0.00               | New Sock        | NA            | NA              | 3343.25                              |
|             | 01/30/08      | 3389.00                      | 58.55            | 45.53                 | 45.55               | 0.02               | Bailed          | Sheen         | 20.00           | 3343.47                              |
|             | 01/30/08      | 3389.00                      | 58.55            | 46.46                 | 46.46               | 0.00               | Sock            | NA            | NA              | 3342.54                              |
|             | 02/06/08      | 3389.00                      | 58.55            | 45.60                 | 45.60               | 0.00               | Bailed          | Sheen         | 20.00           | 3343.40                              |
|             | 02/06/08      | 3389.00                      | 58.55            | 46.25                 | 46.25               | 0.00               | Sock            | NA            | NA              | 3342.75                              |
|             | 02/13/08      | 3389.00                      | 58.55            | 45.46                 | 45.55               | 0.09               | Bailed          | Sheen         | 20.00           | 3343.53                              |
|             | 02/13/08      | 3389.00                      | 58.55            | 46.21                 | 46.21               | 0.00               | New Sock        | NA            | NA              | 3342.79                              |
|             | 02/19/08      | 3389.00                      | 58.55            | 45.50                 | 45.53               | 0.03               | Bailed          | Sheen         | 20.00           | 3343.50                              |
|             | 02/19/08      | 3389.00                      | 58.55            | 46.43                 | 46.43               | 0.00               | Flip Sock       | NA            | NA              | 3342.57                              |
|             | 02/27/08      | 3389.00                      | 58.55            | 45.49                 | 45.59               | 0.10               | Bailed          | Sheen         | 20.00           | 3343.50                              |
|             | 02/27/08      | 3389.00                      | 58.55            | 46.15                 | 46.15               | 0.00               | New Sock        | NA            | NA              | 3342.85                              |
|             | 03/04/08      | 3389.00                      | 58.55            | 45.50                 | 45.50               | 0.00               | Pump            | Sheen         | 20.00           | 3343.50                              |
|             | 03/04/08      | 3389.00                      | 58.55            | 46.70                 | 46.70               | 0.00               | New Sock        | NA            | NA              | 3342.30                              |
|             | 03/12/08      | 3389.00                      | 58.55            | 45.45                 | 45.48               | 0.03               | Pump            | Sheen         | 20.00           | 3343.55                              |
|             | 03/12/08      | 3389.00                      | 58.55            | 46.70                 | 46.70               | 0.00               | New Sock        | NA            | NA              | 3342.30                              |
|             | 03/19/08      | 3389.00                      | 58.55            | 45.49                 | 45.50               | 0.01               | Pump            | Sheen         | 20.00           | 3343.51                              |
|             | 03/19/08      | 3389.00                      | 58.55            | 46.67                 | 46.67               | 0.00               | New Sock        | NA            | NA              | 3342.33                              |
|             | 03/26/08      | 3389.00                      | 58.55            | 45.49                 | 45.50               | 0.01               | Pump            | Sheen         | 20.00           | 3343.51                              |
|             | 03/26/08      | 3389.00                      | 58.55            | 46.42                 | 46.42               | 0.00               | Flip Sock       | NA            | NA              | 3342.58                              |
|             | 04/02/08      | 3389.00                      | 58.55            | 45.45                 | 45.46               | 0.01               | Bailed          | Sheen         | 20.00           | 3343.55                              |
|             | 04/02/08      | 3389.00                      | 58.55            | 46.32                 | 46.32               | 0.00               | Sock            | NA            | NA              | 3342.68                              |
|             | 04/09/08      | 3389.00                      | 58.55            | 45.48                 | 45.48               | 0.00               | Pump            | Sheen         | 20.00           | 3343.52                              |
|             | 04/09/08      | 3389.00                      | 58.55            | 45.50                 | 45.50               | 0.00               | Sock            | NA            | NA              | 3343.50                              |
|             | 04/16/08      | 3389.00                      | 58.55            | 45.41                 | 45.41               | 0.00               | Pump            | Sheen         | 20.00           | 3343.59                              |
|             | 04/16/08      | 3389.00                      | 58.55            | 45.66                 | 45.66               | 0.00               | Sock            | NA            | NA              | 3343.34                              |
|             | 04/24/08      | 3389.00                      | 58.55            | 45.34                 | 45.34               | 0.00               | Pump            | Sheen         | 20.00           | 3343.66                              |
|             | 04/24/08      | 3389.00                      | 58.55            | 46.00                 | 46.00               | 0.00               | New Sock        | NA            | NA              | 3343.00                              |
|             | 04/30/08      | 3389.00                      | 58.55            | 45.38                 | 45.38               | 0.00               | Pump            | Sheen         | 20.00           | 3343.62                              |
|             | 04/30/08      | 3389.00                      | 58.55            | 45.96                 | 45.96               | 0.00               | Flip Sock       | NA            | NA              | 3343.04                              |
|             | 05/07/08      | 3389.00                      | 58.55            | 45.43                 | 45.43               | 0.00               | Pump            | Sheen         | 20.00           | 3343.57                              |
|             | 05/07/08      | 3389.00                      | 58.55            | 45.86                 | 45.86               | 0.00               | Sock            | NA            | NA              | 3343.14                              |
|             | 05/14/08      | 3389.00                      | 58.55            | 45.46                 | 45.48               | 0.02               | Pump            | Sheen         | 20.00           | 3343.54                              |
|             | 05/14/08      | 3389.00                      | 58.55            | 46.00                 | 46.00               | 0.00               | Sock            | NA            | NA              | 3343.00                              |
|             | 05/22/08      | 3389.00                      | 58.55            | 45.42                 | 45.42               | 0.00               | Pump            | Sheen         | 26.00           | 3343.58                              |
|             | 05/22/08      | 3389.00                      | 58.55            | 47.10                 | 47.10               | 0.00               | New Sock        | NA            | NA              | 3341.90                              |
|             | 05/29/08      | 3389.00                      | 58.55            | 45.41                 | 45.41               | 0.00               | Pump            | Sheen         | 20.00           | 3343.59                              |
|             | 05/29/08      | 3389.00                      | 58.55            | 45.96                 | 45.96               | 0.00               | Sock            | NA            | NA              | 3343.04                              |
|             | 06/04/08      | 3389.00                      | 58.55            | 45.43                 | 45.43               | 0.00               | Pump            | Sheen         | 20.00           | 3343.57                              |
|             | 06/04/08      | 3389.00                      | 58.55            | 46.02                 | 46.02               | 0.00               | Sock            | NA            | NA              | 3342.98                              |
|             | 06/11/08      | 3389.00                      | 58.55            | 45.48                 | 45.48               | 0.00               | Pump            | Sheen         | 20.00           | 3343.52                              |
|             | 06/11/08      | 3389.00                      | 58.55            | 45.99                 | 45.99               | 0.00               | Sock            | NA            | NA              | 3343.01                              |
|             | 06/18/08      | 3389.00                      | 58.55            | 45.52                 | 45.52               | 0.00               | Pump            | Sheen         | 20.00           | 3343.48                              |
|             | 06/18/08      | 3389.00                      | 58.55            | 46.08                 | 46.08               | 0.00               | Sock            | NA            | NA              | 3342.92                              |
|             | 06/26/08      | 3389.00                      | 58.55            | 46.12                 | 46.12               | 0.00               | bailed          | 0.00          | 10.00           | 3342.88                              |
|             | 06/26/08      | 3389.00                      | 58.55            | 47.12                 | 47.12               | 0.00               | Sock            | NA            | NA              | 3341.88                              |
|             | 07/07/08      | 3389.00                      | 58.55            | 46.00                 | 46.00               | 0.00               | Pump            | Sheen         | 20.00           | 3343.00                              |
|             | 07/07/08      | 3389.00                      | 58.55            | 46.12                 | 46.12               | 0.00               | New Sock        | NA            | NA              | 3342.88                              |
|             | 07/16/08      | 3389.00                      | 58.55            | 45.51                 | 45.56               | 0.05               | Pump            | Sheen         | 20.00           | 3343.48                              |
|             | 07/16/08      | 3389.00                      | 58.55            | 46.21                 | 46.21               | 0.00               | Sock            | NA            | NA              | 3342.79                              |
|             | 07/21/08      | 3389.00                      | 58.55            | 45.36                 | 45.60               | 0.24               | Pump            | Sheen         | 20.00           | 3343.60                              |
|             | 07/21/08      | 3389.00                      | 58.55            | 46.18                 | 46.18               | 0.00               | Sock            | NA            | NA              | 3342.82                              |
|             | 07/29/08      | 3389.00                      | 58.55            | 45.59                 | 45.63               | 0.04               | Pump            | Sheen         | 20.00           | 3343.40                              |
|             | 07/29/08      | 3389.00                      | 58.55            | 46.28                 | 46.28               | 0.00               | Sock            | NA            | NA              | 3342.72                              |
|             | 08/06/08      | 3389.00                      | 58.55            | 45.50                 | 45.66               | 0.16               | New Sock        | NA            | NA              | 3343.48                              |
|             | 08/13/08      | 3389.00                      | 58.55            | 45.53                 | 45.60               | 0.07               | Pump            | Sheen         | 20.00           | 3343.46                              |
|             | 08/13/08      | 3389.00                      | 58.55            | 46.36                 | 46.36               | 0.00               | Sock            | NA            | NA              | 3342.64                              |
|             | 08/20/08      | 3389.00                      | 58.55            | 45.50                 | 45.88               | 0.38               | Sock            | NA            | NA              | 3343.44                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 08/27/08      | 3389.00                      | 58.55            | 45.58                 | 45.99               | 0.41               | Pump             | NA            | 20.00           | 3343.36                              |
|             | 08/27/08      | 3389.00                      | 58.55            | 46.32                 | 46.32               | 0.00               | Sock             | NA            | NA              | 3342.68                              |
|             | 09/02/08      | 3389.00                      | 58.55            | 45.68                 | 45.79               | 0.11               | Pump             | NA            | 20.00           | 3343.30                              |
|             | 09/02/08      | 3389.00                      | 58.55            | 46.21                 | 46.21               | 0.00               | Sock             | NA            | NA              | 3342.79                              |
|             | 09/09/08      | 3389.00                      | 58.55            | 45.73                 | 45.85               | 0.12               | Pump             | NA            | 20.00           | 3343.25                              |
|             | 09/09/08      | 3389.00                      | 58.55            | 46.42                 | 46.42               | 0.00               | Sock             | NA            | NA              | 3342.58                              |
|             | 09/17/08      | 3389.00                      | 58.55            | 45.73                 | 46.18               | 0.45               | Pump             | 0.50          | 19.50           | 3343.20                              |
|             | 09/17/08      | 3389.00                      | 58.55            | 46.45                 | 46.45               | 0.00               | Sock             | NA            | NA              | 3342.55                              |
|             | 09/24/08      | 3389.00                      | 58.55            | 45.73                 | 46.50               | 0.77               | Pump             | 0.50          | 19.50           | 3343.15                              |
|             | 09/24/08      | 3389.00                      | 58.55            | 46.50                 | 46.50               | 0.00               | Sock             | NA            | NA              | 3342.50                              |
|             | 10/01/08      | 3389.00                      | 58.55            | 45.80                 | 46.67               | 0.87               | Pump             | 1.00          | 19.00           | 3343.07                              |
|             | 10/01/08      | 3389.00                      | 58.55            | 46.50                 | 46.50               | 0.00               | Sock             | NA            | NA              | 3342.50                              |
|             | 10/08/08      | 3389.00                      | 58.55            | 45.60                 | 46.52               | 0.92               | Pump             | 1.00          | 19.00           | 3343.26                              |
|             | 10/08/08      | 3389.00                      | 58.55            | 46.85                 | 46.85               | 0.00               | Sock             | NA            | NA              | 3342.15                              |
|             | 11/05/08      | 3389.00                      | 58.55            | 45.80                 | 45.93               | 0.13               | Pump             | 0.50          | 19.50           | 3343.18                              |
|             | 11/05/08      | 3389.00                      | 58.55            | 46.21                 | 46.21               | 0.00               | Sock             | NA            | NA              | 3342.79                              |
|             | 11/12/08      | 3389.00                      | 58.55            | 45.73                 | 45.97               | 0.24               | Pump             | 0.50          | 9.50            | 3343.23                              |
|             | 11/12/08      | 3389.00                      | 58.55            | 45.76                 | 45.81               | 0.05               | Sock             | NA            | NA              | 3343.23                              |
|             | 11/19/08      | 3389.00                      | 58.55            | 45.70                 | 46.25               | 0.55               | Sock             | NA            | NA              | 3343.22                              |
|             | 11/26/08      | 3389.00                      | 58.55            | 45.79                 | 45.89               | 0.10               | pump             | 0.25          | 13.75           | 3343.20                              |
|             | 11/26/08      | 3389.00                      | 58.55            | 45.79                 | 45.84               | 0.05               | Sock             | NA            | NA              | 3343.20                              |
|             | 12/03/08      | 3389.00                      | 58.55            | 45.85                 | 45.95               | 0.10               | Pump             | 0.25          | 11.75           | 3343.14                              |
|             | 12/03/08      | 3389.00                      | 58.55            | 45.87                 | 45.87               | 0.00               | Sock             | NA            | NA              | 3343.13                              |
|             | 12/10/08      | 3389.00                      | 58.55            | 45.88                 | 45.88               | 0.00               | Sock             | NA            | NA              | 3343.12                              |
|             | 12/17/08      | 3389.00                      | 58.55            | 45.84                 | 45.84               | 0.00               | Sock             | NA            | NA              | 3343.16                              |
|             | 12/17/08      | 3389.00                      | 58.55            | 45.92                 | 45.92               | 0.00               | Sock             | NA            | 10.00           | 3343.08                              |
|             | 12/21/08      | 3389.00                      | 58.55            | 45.86                 | 46.03               | 0.17               | Sock             | 0.50          | 29.50           | 3343.11                              |
|             | 12/21/08      | 3389.00                      | 58.55            | 45.65                 | 45.65               | 0.00               | Sock             | NA            | NA              | 3343.35                              |
|             | 12/31/08      | 3389.00                      | 58.55            | 45.87                 | 45.97               | 0.10               | Sock             | 0.25          | 9.75            | 3343.12                              |
|             | 12/31/08      | 3389.00                      | 58.55            | 45.89                 | 45.89               | 0.00               | Sock             | NA            | NA              | 3343.11                              |
|             | 01/07/09      | 3389.00                      | 58.68            | 45.80                 | 45.82               | 0.02               | Sock             | 0.25          | 9.75            | 3343.20                              |
|             | 01/07/09      | 3389.00                      | 58.68            | 45.78                 | 45.79               | 0.01               | Sock             | NA            | NA              | 3343.22                              |
|             | 01/15/09      | 3389.00                      | 58.68            | 45.79                 | 45.89               | 0.10               | Hand Bailed      | 0.50          | 9.50            | 3343.20                              |
|             | 01/15/09      | 3389.00                      | 58.68            | 45.83                 | 45.84               | 0.01               | NA               | NA            | NA              | 3343.17                              |
|             | 01/22/09      | 3389.00                      | 58.68            | 45.67                 | 46.03               | 0.36               | Hand Bailed      | 1.00          | 13.00           | 3343.28                              |
|             | 01/22/09      | 3389.00                      | 58.68            | 45.74                 | 45.74               | 0.00               | Install New Sock | NA            | NA              | 3343.26                              |
|             | 01/28/09      | 3389.00                      | 58.68            | 45.67                 | 45.81               | 0.14               | Pump             | 0.50          | 14.50           | 3343.31                              |
|             | 01/28/09      | 3389.00                      | 58.68            | 45.70                 | 45.70               | 0.00               | NA               | NA            | NA              | 3343.30                              |
|             | 02/04/09      | 3389.00                      | 58.77            | 45.69                 | 45.74               | 0.05               | Pump             | 0.25          | 19.75           | 3343.30                              |
|             | 02/04/09      | 3389.00                      | 58.77            | 45.69                 | 45.69               | 0.00               | NA               | NA            | NA              | 3343.31                              |
|             | 02/11/09      | 3389.00                      | 58.77            | 45.63                 | 45.67               | 0.04               | Pump             | 0.25          | 21.75           | 3343.36                              |
|             | 02/11/09      | 3389.00                      | 58.77            | 46.58                 | 46.58               | 0.00               | NA               | NA            | NA              | 3342.42                              |
|             | 02/17/09      | 3389.00                      | 58.77            | 45.59                 | 45.59               | 0.00               | NA               | NA            | NA              | 3343.41                              |
|             | 02/25/09      | 3389.00                      | 58.77            | 45.57                 | 45.60               | 0.03               | Pump             | 0.10          | 19.75           | 3343.43                              |
|             | 02/25/09      | 3389.00                      | 58.77            | 45.67                 | 45.67               | 0.00               | NA               | NA            | NA              | 3343.33                              |
|             | 03/04/09      | 3389.00                      | 58.77            | 45.58                 | 45.60               | 0.02               | Pump             | 0.10          | 9.90            | 3343.42                              |
|             | 03/04/09      | 3389.00                      | 58.77            | 45.61                 | 45.61               | 0.00               | NA               | NA            | NA              | 3343.39                              |
|             | 03/11/09      | 3389.00                      | 58.77            | 45.67                 | 45.67               | 0.00               | Pump             | 0.00          | 10.00           | 3343.33                              |
|             | 03/11/09      | 3389.00                      | 58.77            | 45.73                 | 45.73               | 0.00               | NA               | NA            | NA              | 3343.27                              |
|             | 03/18/09      | 3389.00                      | 58.77            | 45.63                 | 45.63               | 0.00               | Pump             | 0.00          | 10.00           | 3343.37                              |
|             | 03/18/09      | 3389.00                      | 58.77            | 45.89                 | 45.89               | 0.00               | NA               | NA            | NA              | 3343.11                              |
|             | 03/25/09      | 3389.00                      | 58.77            | 45.69                 | 45.73               | 0.04               | Pump             | 0.25          | 14.75           | 3343.30                              |
|             | 03/25/09      | 3389.00                      | 58.77            | 46.37                 | 46.37               | 0.00               | NA               | NA            | NA              | 3342.63                              |
|             | 04/01/09      | 3389.00                      | 58.77            | 45.60                 | 45.95               | 0.35               | Pump             | 0.25          | 9.75            | 3343.35                              |
|             | 04/01/09      | 3389.00                      | 58.77            | 45.67                 | 45.67               | 0.00               | NA               | NA            | NA              | 3343.33                              |
|             | 04/08/09      | 3389.00                      | 58.77            | 45.65                 | 45.75               | 0.10               | Pump             | 0.10          | 16.90           | 3343.34                              |
|             | 04/08/09      | 3389.00                      | 58.77            | 45.72                 | 45.72               | 0.00               | NA               | NA            | NA              | 3343.28                              |
|             | 04/15/09      | 3389.00                      | 58.77            | 45.69                 | 45.71               | 0.02               | Pump             | 0.00          | 15.00           | 3343.31                              |
|             | 04/15/09      | 3389.00                      | 58.77            | 45.88                 | 45.88               | 0.00               | NA               | NA            | NA              | 3343.12                              |
|             | 04/22/09      | 3389.00                      | 58.77            | 45.72                 | 45.72               | 0.00               | Pump             | 0.00          | 15.00           | 3343.28                              |
|             | 04/22/09      | 3389.00                      | 58.77            | 45.72                 | 45.72               | 0.00               | NA               | NA            | NA              | 3343.28                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 04/29/09      | 3389.00                      | 58.77            | 45.78                 | 45.82               | 0.04               | Pump            | sheen         | 15.00           | 3343.21                              |
|             | 04/29/09      | 3389.00                      | 58.77            | 46.44                 | 46.44               | 0.00               | NA              | NA            | NA              | 3342.56                              |
|             | 05/06/09      | 3389.00                      | 58.77            | 45.82                 | 46.02               | 0.20               | Pump            | 0.50          | 15.00           | 3343.15                              |
|             | 05/06/09      | 3389.00                      | 58.77            | 46.39                 | 46.39               | 0.00               | NA              | NA            | NA              | 3342.61                              |
|             | 05/14/09      | 3389.00                      | 58.77            | 45.84                 | 45.92               | 0.20               | Pump            | sheen         | 20.00           | 3343.15                              |
|             | 05/14/09      | 3389.00                      | 58.77            | 46.48                 | 46.48               | 0.00               | NA              | NA            | NA              | 3342.61                              |
|             | 05/19/09      | 3389.00                      | 58.77            | 45.88                 | 45.90               | 0.20               | Pump            | sheen         | 30.00           | 3343.15                              |
|             | 05/28/09      | 3389.00                      | 58.77            | 45.79                 | 45.79               | 0.00               | Pump            | 0.00          | 15.00           | 3343.15                              |
|             | 05/28/09      | 3389.00                      | 58.77            | 46.13                 | 46.13               | 0.00               | NA              | NA            | NA              | 3342.61                              |
|             | 06/03/09      | 3389.00                      | 58.77            | 45.88                 | 45.93               | 0.05               | Pump            | sheen         | 15.00           | 3343.11                              |
|             | 06/03/09      | 3389.00                      | 58.77            | 45.92                 | 45.92               | 0.00               | NA              | NA            | NA              | 3343.08                              |
|             | 06/11/09      | 3389.00                      | 58.77            | 45.93                 | 45.93               | 0.00               | Pump            | 0.00          | 10.00           | 3343.07                              |
|             | 06/11/09      | 3389.00                      | 58.77            | 46.15                 | 46.15               | 0.00               | NA              | NA            | NA              | 3342.85                              |
|             | 06/17/09      | 3389.00                      | 58.77            | 46.00                 | 46.05               | 0.05               | Pump            | 0.00          | 15.00           | 3342.99                              |
|             | 06/17/09      | 3389.00                      | 58.77            | 46.62                 | 46.62               | 0.00               | NA              | NA            | NA              | 3342.38                              |
|             | 06/23/09      | 3389.00                      | 58.77            | 45.96                 | 45.96               | 0.00               | Pump/new sock   | 0.00          | 20.00           | 3343.04                              |
|             | 06/23/09      | 3389.00                      | 58.77            | 46.85                 | 46.85               | 0.00               | NA              | NA            | NA              | 3342.15                              |
|             | 07/01/09      | 3389.00                      | 58.77            | 45.91                 | 46.21               | 0.30               | Pump            | 0.25          | 19.75           | 3343.05                              |
|             | 07/01/09      | 3389.00                      | 58.77            | 46.80                 | 46.80               | 0.00               | NA              | NA            | NA              | 3342.20                              |
|             | 07/07/09      | 3389.00                      | 58.77            | 45.91                 | 45.93               | 0.02               | Pump            | 0.25          | 14.75           | 3343.09                              |
|             | 07/07/09      | 3389.00                      | 58.77            | 46.58                 | 46.58               | 0.00               | NA              | NA            | NA              | 3342.42                              |
|             | 07/15/09      | 3389.00                      | 58.77            | 45.88                 | 45.88               | 0.00               | pump            | 0.00          | 20.00           | 3343.12                              |
|             | 07/15/09      | 3389.00                      | 58.77            | 46.71                 | 46.71               | 0.00               | NA              | NA            | NA              | 3342.29                              |
|             | 07/29/09      | 3389.00                      | 58.77            | 45.88                 | 45.92               | 0.04               | pump            | 0.25          | 19.75           | 3343.11                              |
|             | 07/29/09      | 3389.00                      | 58.77            | 46.82                 | 46.82               | 0.00               | NA              | NA            | NA              | 3342.18                              |
|             | 08/05/09      | 3389.00                      | 58.77            | 45.01                 | 45.12               | 0.11               | pump            | 0.25          | 19.75           | 3343.97                              |
|             | 08/05/09      | 3389.00                      | 58.77            | 46.93                 | 46.93               | 0.00               | new sock        | NA            | NA              | 3342.07                              |
|             | 08/12/09      | 3389.00                      | 58.77            | 45.75                 | 45.75               | 0.00               | pump            | 0.00          | 20.00           | 3343.25                              |
|             | 08/12/09      | 3389.00                      | 58.77            | 46.90                 | 46.90               | 0.00               | flip sock       | NA            | NA              | 3342.10                              |
|             | 08/19/09      | 3389.00                      | 58.77            | 45.74                 | 45.80               | 0.06               | NA              | sheen         | 20.00           | 3343.25                              |
|             | 08/19/09      | 3389.00                      | 58.77            | 45.87                 | 45.87               | 0.00               | NA              | NA            | NA              | 3343.13                              |
|             | 08/26/09      | 3389.00                      | 58.77            | 45.65                 | 45.65               | 0.00               | NA              | NA            | NA              | 3343.35                              |
|             | 09/02/09      | 3389.00                      | 58.77            | 45.81                 | 45.95               | 0.14               | new sock        | 0.25          | 19.75           | 3343.17                              |
|             | 09/02/09      | 3389.00                      | 58.77            | 45.91                 | 45.91               | 0.00               | NA              | NA            | NA              | 3343.09                              |
|             | 09/09/09      | 3389.00                      | 58.77            | 45.80                 | 45.85               | 0.05               | flip sock       | 0.25          | 19.75           | 3343.19                              |
|             | 09/09/09      | 3389.00                      | 58.77            | 45.98                 | 45.98               | 0.00               | NA              | NA            | NA              | 3343.02                              |
|             | 09/16/09      | 3389.00                      | 58.77            | 45.88                 | 45.88               | 0.00               | pump            | 0.00          | 20.00           | 3343.12                              |
|             | 09/16/09      | 3389.00                      | 58.77            | 46.63                 | 46.63               | 0.00               | NA              | NA            | NA              | 3342.37                              |
|             | 09/23/09      | 3389.00                      | 58.77            | 45.83                 | 45.83               | 0.00               | flip sock/pump  | 0.00          | 20.00           | 3343.17                              |
|             | 09/23/09      | 3389.00                      | 58.77            | 46.52                 | 46.52               | 0.00               | NA              | NA            | NA              | 3342.48                              |
|             | 09/30/09      | 3389.00                      | 58.77            | 45.87                 | 45.90               | 0.03               | New sock/pump   | 0.00          | 10.00           | 3343.13                              |
|             | 09/30/09      | 3389.00                      | 58.77            | 46.51                 | 46.51               | 0.00               | AM              | NA            | NA              | 3342.49                              |
|             | 09/30/09      | 3389.00                      | 58.77            | 45.80                 | 45.81               | 0.01               | NA              | 0.00          | 10.00           | 3343.20                              |
|             | 09/30/09      | 3389.00                      | 58.77            | 46.73                 | 46.73               | 0.00               | PM              | NA            | NA              | 3342.27                              |
|             | 10/07/09      | 3389.00                      | 58.77            | 45.90                 | 45.90               | 0.00               | flip sock/pump  | 0.00          | 10.00           | 3343.10                              |
|             | 10/07/09      | 3389.00                      | 58.77            | 46.71                 | 46.71               | 0.00               | AM              | NA            | NA              | 3342.29                              |
|             | 10/07/09      | 3389.00                      | 58.77            | 45.87                 | 45.87               | 0.00               | NA              | 0.00          | 10.00           | 3343.13                              |
|             | 10/07/09      | 3389.00                      | 58.77            | 46.76                 | 46.76               | 0.00               | PM              | NA            | NA              | 3342.24                              |
|             | 10/14/09      | 3389.00                      | 58.77            | 45.80                 | 45.82               | 0.02               | new sock/pump   | sheen         | 10.00           | 3343.20                              |
|             | 10/14/09      | 3389.00                      | 58.77            | 46.23                 | 46.23               | 0.00               | AM              | NA            | NA              | 3342.77                              |
|             | 10/14/09      | 3389.00                      | 58.77            | 45.75                 | 45.76               | 0.01               | NA              | sheen         | 10.00           | 3343.25                              |
|             | 10/14/09      | 3389.00                      | 58.77            | 46.60                 | 46.60               | 0.00               | PM              | NA            | NA              | 3342.40                              |
|             | 10/21/09      | 3389.00                      | 58.77            | 45.75                 | 45.80               | 0.05               | NA              | 0.25          | 9.75            | 3343.24                              |
|             | 10/21/09      | 3389.00                      | 58.77            | 46.35                 | 46.35               | 0.00               | NA              | NA            | NA              | 3342.65                              |
|             | 10/29/09      | 3389.00                      | 58.77            | 45.73                 | 46.03               | 0.30               | NA              | 0.25          | 45.00           | 3343.23                              |
|             | 10/29/09      | 3389.00                      | 58.77            | 46.20                 | 46.20               | 0.00               | NA              | NA            | NA              | 3342.80                              |
| MW-2        | 01/09/08      | 3388.38                      | 59.33            | NA                    | 44.96               | NA                 | NA              | NA            | NA              | 3343.42                              |
|             | 02/06/08      | 3388.38                      | 59.33            | NA                    | 44.96               | NA                 | NA              | NA            | NA              | 3343.42                              |
|             | 02/27/08      | 3388.38                      | 59.28            | NA                    | 44.92               | NA                 | NA              | NA            | NA              | 3343.46                              |
|             | 04/02/08      | 3388.38                      | 59.28            | NA                    | 44.81               | NA                 | NA              | NA            | NA              | 3343.57                              |
|             | 05/22/08      | 3388.38                      | 59.28            | NA                    | 44.84               | NA                 | NA              | NA            | NA              | 3343.54                              |
|             | 06/26/08      | 3388.38                      | 59.28            | NA                    | 44.97               | NA                 | NA              | NA            | NA              | 3343.41                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 07/07/08      | 3388.38                      | 59.28            | NA                    | 44.94               | NA                 | NA              | NA            | NA              | 3343.44                              |
|             | 08/20/08      | 3388.38                      | 59.33            | NA                    | 45.00               | NA                 | NA              | NA            | NA              | 3343.38                              |
|             | 10/15/08      | 3388.38                      | 59.33            | NA                    | 45.42               | NA                 | NA              | NA            | NA              | 3342.96                              |
|             | 11/19/08      | 3388.38                      | 59.33            | NA                    | 45.28               | NA                 | NA              | NA            | NA              | 3343.10                              |
|             | 12/21/08      | 3388.38                      | 59.33            | NA                    | 45.38               | NA                 | NA              | NA            | NA              | 3343.00                              |
|             | 01/07/09      | 3388.38                      | 59.19            | NA                    | 45.25               | NA                 | NA              | NA            | NA              | 3343.13                              |
|             | 02/04/09      | 3388.38                      | 59.38            | NA                    | 45.19               | NA                 | NA              | NA            | NA              | 3343.19                              |
|             | 02/17/09      | 3388.38                      | 59.32            | NA                    | 45.02               | NA                 | NA              | NA            | NA              | 3343.36                              |
|             | 03/04/09      | 3388.38                      | 59.32            | NA                    | 45.07               | NA                 | NA              | NA            | NA              | 3343.31                              |
|             | 04/08/09      | 3388.38                      | 59.32            | NA                    | 45.13               | NA                 | NA              | NA            | NA              | 3343.25                              |
|             | 05/06/09      | 3388.38                      | 59.32            | NA                    | 45.31               | NA                 | NA              | NA            | NA              | 3343.07                              |
|             | 05/19/09      | 3388.38                      | 59.32            | NA                    | 45.33               | NA                 | NA              | NA            | NA              | 3343.05                              |
|             | 06/03/09      | 3388.38                      | 59.32            | NA                    | 45.34               | NA                 | NA              | NA            | NA              | 3343.04                              |
|             | 06/03/09      | 3388.38                      | 59.32            | NA                    | 45.34               | NA                 | NA              | NA            | 20.00           | 3343.04                              |
|             | 07/07/09      | 3388.38                      | 59.32            | NA                    | 46.54               | NA                 | NA              | NA            | 20.00           | 3341.84                              |
|             | 07/07/09      | 3388.38                      | 59.32            | NA                    | 46.56               | NA                 | NA              | NA            | NA              | 3341.82                              |
|             | 07/15/09      | 3388.38                      | 59.32            | NA                    | 45.35               | NA                 | NA              | NA            | NA              | 3343.03                              |
|             | 08/05/09      | 3388.38                      | 59.32            | NA                    | 45.27               | NA                 | NA              | NA            | NA              | 3343.11                              |
|             | 08/26/09      | 3388.38                      | 59.32            | NA                    | 45.36               | NA                 | NA              | NA            | 7.00            | 3343.02                              |
|             | 09/02/09      | 3388.38                      | 59.32            | NA                    | 45.38               | NA                 | NA              | NA            | NA              | 3343.00                              |
|             | 10/07/09      | 3388.38                      | 59.32            | NA                    | 45.31               | NA                 | NA              | NA            | NA              | 3343.07                              |
| MW-3        | 01/09/08      | 3388.52                      | 59.65            | NA                    | 45.34               | NA                 | NA              | NA            | NA              | 3343.18                              |
|             | 02/06/08      | 3388.52                      | 59.65            | NA                    | 45.35               | NA                 | NA              | NA            | NA              | 3343.17                              |
|             | 02/27/08      | 3388.52                      | 59.68            | NA                    | 45.30               | NA                 | NA              | NA            | NA              | 3343.22                              |
|             | 04/02/08      | 3388.52                      | 59.68            | NA                    | 45.28               | NA                 | NA              | NA            | NA              | 3343.24                              |
|             | 05/22/08      | 3388.52                      | 59.68            | NA                    | 45.24               | NA                 | NA              | NA            | NA              | 3343.28                              |
|             | 06/26/08      | 3388.52                      | 59.68            | NA                    | 45.32               | NA                 | NA              | NA            | NA              | 3343.20                              |
|             | 07/07/08      | 3388.52                      | 59.68            | NA                    | 45.72               | NA                 | NA              | NA            | NA              | 3342.80                              |
|             | 08/20/08      | 3388.52                      | 59.70            | NA                    | 45.35               | NA                 | NA              | NA            | NA              | 3343.17                              |
|             | 10/15/08      | 3388.52                      | 59.72            | NA                    | 45.82               | NA                 | NA              | NA            | NA              | 3342.70                              |
|             | 11/19/08      | 3388.52                      | 59.72            | NA                    | 45.66               | NA                 | NA              | NA            | NA              | 3342.86                              |
|             | 12/21/08      | 3388.52                      | 59.72            | NA                    | 45.75               | NA                 | NA              | NA            | NA              | 3342.77                              |
|             | 01/07/09      | 3388.52                      | 59.71            | NA                    | 45.66               | NA                 | NA              | NA            | NA              | 3342.86                              |
|             | 02/04/09      | 3388.52                      | 59.75            | NA                    | 45.56               | NA                 | NA              | NA            | NA              | 3342.96                              |
|             | 02/17/09      | 3388.52                      | 59.30            | NA                    | 45.39               | NA                 | NA              | NA            | NA              | 3343.13                              |
|             | 03/04/09      | 3388.52                      | 59.30            | NA                    | 45.46               | NA                 | NA              | NA            | NA              | 3343.06                              |
|             | 04/08/09      | 3388.52                      | 59.30            | NA                    | 45.51               | NA                 | NA              | NA            | NA              | 3343.01                              |
|             | 05/06/09      | 3388.52                      | 59.30            | NA                    | 45.70               | NA                 | NA              | NA            | NA              | 3342.82                              |
|             | 05/19/09      | 3388.52                      | 59.30            | NA                    | 45.70               | NA                 | NA              | NA            | 7.00            | 3342.82                              |
|             | 06/03/09      | 3388.52                      | 59.30            | NA                    | 45.70               | NA                 | NA              | NA            | NA              | 3342.82                              |
|             | 07/15/09      | 3388.52                      | 59.30            | NA                    | 45.75               | NA                 | NA              | NA            | NA              | 3342.77                              |
|             | 08/05/09      | 3388.52                      | 59.30            | NA                    | 45.62               | NA                 | NA              | NA            | NA              | 3342.90                              |
|             | 08/26/09      | 3388.52                      | 59.70            | NA                    | 45.75               | NA                 | NA              | NA            | 7.00            | 3342.77                              |
|             | 09/02/09      | 3388.52                      | 59.70            | NA                    | 45.75               | NA                 | NA              | NA            | NA              | 3342.77                              |
|             | 10/07/09      | 3388.52                      | 59.70            | NA                    | 45.67               | NA                 | NA              | NA            | NA              | 3342.85                              |
| MW-4        | 01/09/08      | 3388.92                      | 58.90            | NA                    | 46.12               | NA                 | NA              | NA            | NA              | 3342.80                              |
|             | 02/06/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | NA              | NA            | 20.00           | 3342.76                              |
|             | 02/06/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | Pump            | NA            | NA              | 3342.76                              |
|             | 02/13/08      | 3388.92                      | 58.90            | NA                    | 46.11               | NA                 | NA              | NA            | 20.00           | 3342.81                              |
|             | 02/13/08      | 3388.92                      | 58.90            | NA                    | 46.11               | NA                 | Pump            | NA            | NA              | 3342.81                              |
|             | 02/19/08      | 3388.92                      | 58.90            | NA                    | 46.11               | NA                 | NA              | NA            | 20.00           | 3342.81                              |
|             | 02/19/08      | 3388.92                      | 58.90            | NA                    | 46.13               | NA                 | Pump            | NA            | NA              | 3342.79                              |
|             | 02/27/08      | 3388.92                      | 59.92            | NA                    | 46.11               | NA                 | NA              | NA            | 20.00           | 3342.81                              |
|             | 02/27/08      | 3388.92                      | 58.90            | NA                    | 46.14               | NA                 | Pump            | NA            | NA              | 3342.78                              |
|             | 03/04/08      | 3388.92                      | 59.92            | NA                    | 46.10               | NA                 | NA              | NA            | 20.00           | 3342.82                              |
|             | 03/04/08      | 3388.92                      | 58.90            | NA                    | 46.13               | NA                 | Pump            | NA            | NA              | 3342.79                              |
|             | 03/12/08      | 3388.92                      | 59.92            | NA                    | 46.08               | NA                 | NA              | NA            | 20.00           | 3342.84                              |
|             | 03/12/08      | 3388.92                      | 58.90            | NA                    | 46.10               | NA                 | Pump            | NA            | NA              | 3342.82                              |
|             | 03/19/08      | 3388.92                      | 59.92            | NA                    | 46.11               | NA                 | NA              | NA            | 20.00           | 3342.81                              |
|             | 03/19/08      | 3388.92                      | 58.90            | NA                    | 46.12               | NA                 | Pump            | NA            | NA              | 3342.80                              |
|             | 03/26/08      | 3388.92                      | 59.92            | NA                    | 46.05               | NA                 | NA              | NA            | 20.00           | 3342.87                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 03/26/08      | 3388.92                      | 58.90            | NA                    | 46.07               | NA                 | Pump            | NA            | NA              | 3342.85                              |
|             | 04/02/08      | 3388.92                      | 59.92            | NA                    | 46.07               | NA                 | NA              | NA            | 20.00           | 3342.85                              |
|             | 04/02/08      | 3388.92                      | 58.90            | NA                    | 46.03               | NA                 | Pump            | NA            | NA              | 3342.89                              |
|             | 04/09/08      | 3388.92                      | 59.92            | NA                    | 45.99               | NA                 | NA              | NA            | 20.00           | 3342.93                              |
|             | 04/09/08      | 3388.92                      | 58.90            | NA                    | 45.96               | NA                 | Pump            | NA            | NA              | 3342.96                              |
|             | 04/16/08      | 3388.92                      | 59.92            | NA                    | 45.98               | NA                 | NA              | NA            | 20.00           | 3342.94                              |
|             | 04/16/08      | 3388.92                      | 58.90            | NA                    | 45.96               | NA                 | Pump            | NA            | NA              | 3342.96                              |
|             | 04/24/08      | 3388.92                      | 58.90            | NA                    | 45.96               | NA                 | NA              | NA            | NA              | 3342.96                              |
|             | 04/30/08      | 3388.92                      | 58.90            | NA                    | 45.93               | NA                 | NA              | NA            | 20.00           | 3342.99                              |
|             | 04/30/08      | 3388.92                      | 58.90            | NA                    | 45.95               | NA                 | Pump            | NA            | NA              | 3342.97                              |
|             | 05/07/08      | 3388.92                      | 58.90            | NA                    | 45.94               | NA                 | NA              | NA            | 20.00           | 3342.98                              |
|             | 05/07/08      | 3388.92                      | 58.90            | NA                    | 45.94               | NA                 | Pump            | NA            | NA              | 3342.98                              |
|             | 05/14/08      | 3388.92                      | 58.90            | NA                    | 45.95               | NA                 | NA              | NA            | 20.00           | 3342.97                              |
|             | 05/14/08      | 3388.92                      | 58.90            | NA                    | 45.96               | NA                 | Pump            | NA            | NA              | 3342.96                              |
|             | 05/22/08      | 3388.92                      | 58.90            | NA                    | 45.99               | NA                 | NA              | NA            | 20.00           | 3342.93                              |
|             | 05/22/08      | 3388.92                      | 58.90            | NA                    | 45.99               | NA                 | Pump            | NA            | NA              | 3342.93                              |
|             | 05/29/08      | 3388.92                      | 58.90            | NA                    | 46.00               | NA                 | NA              | NA            | 20.00           | 3342.92                              |
|             | 05/29/08      | 3388.92                      | 58.90            | NA                    | 46.01               | NA                 | Pump            | NA            | NA              | 3342.91                              |
|             | 06/04/08      | 3388.92                      | 58.90            | NA                    | 46.03               | NA                 | NA              | NA            | 20.00           | 3342.89                              |
|             | 06/04/08      | 3388.92                      | 58.90            | NA                    | 46.02               | NA                 | Pump            | NA            | NA              | 3342.90                              |
|             | 06/11/08      | 3388.92                      | 58.90            | NA                    | 46.07               | NA                 | NA              | NA            | 20.00           | 3342.85                              |
|             | 06/11/08      | 3388.92                      | 58.90            | NA                    | 46.09               | NA                 | Pump            | NA            | NA              | 3342.83                              |
|             | 06/18/08      | 3388.92                      | 58.90            | NA                    | 46.08               | NA                 | NA              | NA            | 20.00           | 3342.84                              |
|             | 06/18/08      | 3388.92                      | 58.90            | NA                    | 46.10               | NA                 | Pump            | NA            | NA              | 3342.82                              |
|             | 06/26/08      | 3388.92                      | 58.90            | NA                    | 46.10               | NA                 | NA              | NA            | 20.00           | 3342.82                              |
|             | 06/26/08      | 3388.92                      | 58.90            | NA                    | 46.13               | NA                 | Pump            | NA            | NA              | 3342.79                              |
|             | 07/07/08      | 3388.92                      | 58.90            | NA                    | 46.14               | NA                 | NA              | NA            | 20.00           | 3342.78                              |
|             | 07/07/08      | 3388.92                      | 58.90            | NA                    | 46.15               | NA                 | Pump            | NA            | NA              | 3342.77                              |
|             | 07/16/08      | 3388.92                      | 58.90            | NA                    | 46.15               | NA                 | NA              | NA            | 20.00           | 3342.77                              |
|             | 07/16/08      | 3388.92                      | 58.90            | NA                    | 46.17               | NA                 | Pump            | NA            | NA              | 3342.75                              |
|             | 07/21/08      | 3388.92                      | 58.90            | NA                    | 46.15               | NA                 | NA              | NA            | 20.00           | 3342.77                              |
|             | 07/21/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | Pump            | NA            | NA              | 3342.76                              |
|             | 07/29/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | NA              | NA            | 20.00           | 3342.76                              |
|             | 07/29/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | Pump            | NA            | NA              | 3342.76                              |
|             | 08/06/08      | 3388.92                      | 58.90            | NA                    | 46.17               | NA                 | NA              | NA            | NA              | 3342.75                              |
|             | 08/13/08      | 3388.92                      | 58.90            | NA                    | 46.16               | NA                 | Pump            | NA            | 20.00           | 3342.76                              |
|             | 08/13/08      | 3388.92                      | 58.90            | NA                    | 46.17               | NA                 | NA              | NA            | NA              | 3342.75                              |
|             | 08/20/08      | 3388.92                      | 58.93            | NA                    | 46.20               | NA                 | NA              | NA            | NA              | 3342.72                              |
|             | 08/27/08      | 3388.92                      | 58.93            | NA                    | 47.22               | NA                 | Pump            | NA            | 20.00           | 3341.70                              |
|             | 08/27/08      | 3388.92                      | 58.93            | NA                    | 47.24               | NA                 | NA              | NA            | NA              | 3341.68                              |
|             | 09/02/08      | 3388.92                      | 58.93            | NA                    | 47.24               | NA                 | Pump            | NA            | 20.00           | 3341.68                              |
|             | 09/02/08      | 3388.92                      | 58.93            | NA                    | 47.24               | NA                 | NA              | NA            | NA              | 3341.68                              |
|             | 09/09/08      | 3388.92                      | 58.93            | NA                    | 47.24               | NA                 | Pump            | NA            | 40.00           | 3341.68                              |
|             | 09/09/08      | 3388.92                      | 58.93            | NA                    | 47.26               | NA                 | NA              | NA            | NA              | 3341.66                              |
|             | 09/17/08      | 3388.92                      | 58.93            | NA                    | 47.26               | NA                 | Pump            | NA            | 20.00           | 3341.66                              |
|             | 09/17/08      | 3388.92                      | 58.93            | NA                    | 47.27               | NA                 | NA              | NA            | NA              | 3341.65                              |
|             | 09/24/08      | 3388.92                      | 58.93            | NA                    | 46.49               | NA                 | Pump            | NA            | 20.00           | 3342.43                              |
|             | 09/24/08      | 3388.92                      | 58.93            | NA                    | 46.51               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 10/01/08      | 3388.92                      | 58.93            | NA                    | 46.48               | NA                 | Pump            | NA            | 20.00           | 3342.44                              |
|             | 10/01/08      | 3388.92                      | 58.93            | NA                    | 46.50               | NA                 | NA              | NA            | NA              | 3342.42                              |
|             | 10/08/08      | 3388.92                      | 58.93            | NA                    | 46.58               | NA                 | Pump            | NA            | 20.00           | 3342.34                              |
|             | 10/08/08      | 3388.92                      | 58.93            | NA                    | 46.58               | NA                 | NA              | NA            | NA              | 3342.34                              |
|             | 11/05/08      | 3388.92                      | 58.93            | NA                    | 46.46               | NA                 | Pump            | NA            | 10.00           | 3342.46                              |
|             | 11/05/08      | 3388.92                      | 58.93            | NA                    | 47.57               | NA                 | NA              | NA            | NA              | 3341.35                              |
|             | 11/12/08      | 3388.92                      | 58.93            | NA                    | 46.44               | NA                 | NA              | NA            | NA              | 3342.48                              |
|             | 11/19/08      | 3388.92                      | 58.93            | NA                    | 46.46               | NA                 | NA              | NA            | NA              | 3342.46                              |
|             | 11/26/08      | 3388.92                      | 58.93            | NA                    | 46.47               | NA                 | pump            | NA            | 20.00           | 3342.45                              |
|             | 11/26/08      | 3388.92                      | 58.93            | NA                    | 46.49               | NA                 | NA              | NA            | NA              | 3342.43                              |
|             | 12/03/08      | 3388.92                      | 58.93            | NA                    | 46.52               | NA                 | Pump            | NA            | 20.00           | 3342.40                              |
|             | 12/03/08      | 3388.92                      | 58.93            | NA                    | 46.58               | NA                 | NA              | NA            | NA              | 3342.34                              |
|             | 12/10/08      | 3388.92                      | 58.93            | NA                    | 46.55               | NA                 | Pump            | NA            | 20.00           | 3342.37                              |
|             | 12/10/08      | 3388.92                      | 58.93            | NA                    | 46.55               | NA                 | NA              | NA            | NA              | 3342.37                              |
|             | 12/17/08      | 3388.92                      | 58.93            | NA                    | 46.51               | NA                 | Pump            | NA            | 15.00           | 3342.41                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 12/17/08      | 3388.92                      | 58.93            | NA                    | 46.54               | NA                 | NA              | NA            | NA              | 3342.38                              |
|             | 12/21/08      | 3388.92                      | 58.93            | NA                    | 46.57               | NA                 | Pump            | NA            | 20.00           | 3342.35                              |
|             | 12/21/08      | 3388.92                      | 58.93            | NA                    | 46.58               | NA                 | NA              | NA            | NA              | 3342.34                              |
|             | 12/31/08      | 3388.92                      | 58.93            | NA                    | 46.57               | NA                 | Pump            | NA            | 20.00           | 3342.35                              |
|             | 12/31/08      | 3388.92                      | 58.93            | NA                    | 46.57               | NA                 | NA              | NA            | NA              | 3342.35                              |
|             | 01/07/09      | 3388.92                      | 58.93            | NA                    | 46.49               | NA                 | Pump            | NA            | 20.00           | 3342.43                              |
|             | 01/07/09      | 3388.92                      | 58.93            | NA                    | 46.51               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 01/15/09      | 3388.92                      | 58.93            | NA                    | 46.49               | NA                 | Pump            | NA            | 15.00           | 3342.43                              |
|             | 01/15/09      | 3388.92                      | 58.93            | NA                    | 46.51               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 01/22/09      | 3388.92                      | 58.93            | NA                    | 46.43               | NA                 | Pump            | 0.00          | 12.00           | 3342.49                              |
|             | 01/22/09      | 3388.92                      | 58.93            | NA                    | 46.45               | NA                 | NA              | NA            | NA              | 3342.47                              |
|             | 01/28/09      | 3388.92                      | 58.93            | NA                    | 46.41               | NA                 | Pump            | 0.00          | 15.00           | 3342.51                              |
|             | 01/28/09      | 3388.92                      | 58.93            | NA                    | 46.43               | NA                 | NA              | NA            | NA              | 3342.49                              |
|             | 02/04/09      | 3388.92                      | 58.99            | NA                    | 46.39               | NA                 | Pump            | 0.00          | 10.00           | 3342.53                              |
|             | 02/04/09      | 3388.92                      | 58.99            | NA                    | 46.41               | NA                 | NA              | NA            | NA              | 3342.51                              |
|             | 02/11/09      | 3388.92                      | 58.99            | NA                    | 46.35               | NA                 | Pump            | 0.00          | 20.00           | 3342.57                              |
|             | 02/11/09      | 3388.92                      | 58.99            | NA                    | 46.36               | NA                 | NA              | NA            | NA              | 3342.56                              |
|             | 02/17/09      | 3388.92                      | 58.92            | NA                    | 46.23               | NA                 | Sample          | NA            | NA              | 3342.69                              |
|             | 02/25/09      | 3388.92                      | 58.92            | NA                    | 46.29               | NA                 | Pump            | 0.00          | 20.00           | 3342.63                              |
|             | 02/25/09      | 3388.92                      | 58.92            | NA                    | 46.31               | NA                 | NA              | NA            | NA              | 3342.61                              |
|             | 03/04/09      | 3388.92                      | 58.92            | NA                    | 46.30               | NA                 | Pump            | 0.00          | 20.00           | 3342.62                              |
|             | 03/04/09      | 3388.92                      | 58.92            | NA                    | 46.35               | NA                 | NA              | NA            | NA              | 3342.57                              |
|             | 03/11/09      | 3388.92                      | 58.92            | NA                    | 46.38               | NA                 | Pump            | 0.00          | 20.00           | 3342.54                              |
|             | 03/11/09      | 3388.92                      | 58.92            | NA                    | 46.41               | NA                 | NA              | NA            | NA              | 3342.51                              |
|             | 03/18/09      | 3388.92                      | 58.92            | NA                    | 46.33               | NA                 | Pump            | 0.00          | 20.00           | 3342.59                              |
|             | 03/18/09      | 3388.92                      | 58.92            | NA                    | 46.45               | NA                 | NA              | NA            | NA              | 3342.47                              |
|             | 03/25/09      | 3388.92                      | 58.92            | NA                    | 46.37               | NA                 | Pump            | 0.00          | 20.00           | 3342.55                              |
|             | 03/25/09      | 3388.92                      | 58.92            | NA                    | 46.42               | NA                 | NA              | NA            | NA              | 3342.50                              |
|             | 04/01/09      | 3388.92                      | 58.92            | NA                    | 46.33               | NA                 | Pump            | 0.00          | 20.00           | 3342.59                              |
|             | 04/01/09      | 3388.92                      | 58.92            | NA                    | 46.35               | NA                 | NA              | NA            | NA              | 3342.57                              |
|             | 04/15/09      | 3388.92                      | 58.92            | NA                    | 46.38               | NA                 | Pump            | 0.00          | 20.00           | 3342.54                              |
|             | 04/15/09      | 3388.92                      | 58.92            | NA                    | 46.35               | NA                 | NA              | NA            | NA              | 3342.57                              |
|             | 04/22/09      | 3388.92                      | 58.92            | NA                    | 46.34               | NA                 | Pump            | 0.00          | 20.00           | 3342.58                              |
|             | 04/22/09      | 3388.92                      | 58.92            | NA                    | 46.34               | NA                 | NA              | NA            | NA              | 3342.58                              |
|             | 04/29/09      | 3388.92                      | 58.92            | NA                    | 46.44               | NA                 | Pump            | 0.00          | 20.00           | 3342.48                              |
|             | 04/29/09      | 3388.92                      | 58.92            | NA                    | 46.47               | NA                 | NA              | NA            | NA              | 3342.45                              |
|             | 05/06/09      | 3388.92                      | 58.92            | NA                    | 46.48               | NA                 | Pump            | 0.00          | 20.00           | 3342.44                              |
|             | 05/06/09      | 3388.92                      | 58.92            | NA                    | 46.59               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 05/14/09      | 3388.92                      | 58.92            | NA                    | 46.50               | NA                 | Pump            | 0.00          | 20.00           | 3342.42                              |
|             | 05/14/09      | 3388.92                      | 58.92            | NA                    | 46.51               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 05/19/09      | 3388.92                      | 58.92            | NA                    | 46.50               | NA                 | NA              | NA            | 6.00            | 3342.42                              |
|             | 05/28/09      | 3388.92                      | 58.92            | NA                    | 46.48               | NA                 | Pump            | 0.00          | 20.00           | 3342.44                              |
|             | 05/28/09      | 3388.92                      | 58.92            | NA                    | 46.52               | NA                 | NA              | NA            | NA              | 3342.40                              |
|             | 06/03/09      | 3388.92                      | 58.92            | NA                    | 46.50               | NA                 | Pump            | 0.00          | 20.00           | 3342.42                              |
|             | 06/03/09      | 3388.92                      | 58.92            | NA                    | 46.52               | NA                 | NA              | NA            | NA              | 3342.40                              |
|             | 06/11/09      | 3388.92                      | 58.92            | NA                    | 46.47               | NA                 | Pump            | 0.00          | 20.00           | 3342.45                              |
|             | 06/11/09      | 3388.92                      | 58.92            | NA                    | 46.50               | NA                 | NA              | NA            | NA              | 3342.42                              |
|             | 06/17/09      | 3388.92                      | 58.92            | NA                    | 46.62               | NA                 | Pump            | 0.00          | 20.00           | 3342.30                              |
|             | 06/17/09      | 3388.92                      | 58.92            | NA                    | 46.65               | NA                 | NA              | NA            | NA              | 3342.27                              |
|             | 06/23/09      | 3388.92                      | 58.92            | NA                    | 46.62               | NA                 | Pump            | 0.00          | 20.00           | 3342.30                              |
|             | 06/23/09      | 3388.92                      | 58.92            | NA                    | 46.70               | NA                 | NA              | NA            | NA              | 3342.22                              |
|             | 07/01/09      | 3388.92                      | 58.92            | NA                    | 46.58               | NA                 | Pump            | 0.00          | 20.00           | 3342.34                              |
|             | 07/01/09      | 3388.92                      | 58.92            | NA                    | 46.58               | NA                 | NA              | NA            | NA              | 3342.34                              |
|             | 07/15/09      | 3388.92                      | 58.92            | NA                    | 46.55               | NA                 | pump            | 0.00          | 20.00           | 3342.37                              |
|             | 07/15/09      | 3388.92                      | 58.92            | NA                    | 46.55               | NA                 | NA              | NA            | NA              | 3342.37                              |
|             | 07/29/09      | 3388.92                      | 58.92            | NA                    | 46.49               | NA                 | pump            | 0.00          | 20.00           | 3342.43                              |
|             | 07/29/09      | 3388.92                      | 58.92            | NA                    | 46.47               | NA                 | NA              | NA            | NA              | 3342.45                              |
|             | 08/05/09      | 3388.92                      | 58.92            | NA                    | 46.42               | NA                 | pump            | 0.00          | 20.00           | 3342.50                              |
|             | 08/05/09      | 3388.92                      | 58.92            | NA                    | 46.92               | NA                 | NA              | NA            | NA              | 3342.00                              |
|             | 08/12/09      | 3388.92                      | 58.92            | NA                    | 46.48               | NA                 | pump            | 0.00          | 20.00           | 3342.44                              |
|             | 08/12/09      | 3388.92                      | 58.92            | NA                    | 46.68               | NA                 | NA              | NA            | NA              | 3342.24                              |
|             | 08/19/09      | 3388.92                      | 58.92            | NA                    | 46.46               | NA                 | pump            | 0.00          | 20.00           | 3342.46                              |
|             | 08/19/09      | 3388.92                      | 58.92            | NA                    | 46.50               | NA                 | NA              | NA            | NA              | 3342.42                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 08/26/09      | 3388.92                      | 58.90            | NA                    | 46.53               | NA                 | NA              | NA            | 6.00            | 3342.39                              |
|             | 09/02/09      | 3388.92                      | 58.90            | NA                    | 46.55               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 09/02/09      | 3388.92                      | 58.90            | NA                    | 46.60               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 09/09/09      | 3388.92                      | 58.90            | NA                    | 46.50               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 09/09/09      | 3388.92                      | 58.90            | NA                    | 46.51               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 09/16/09      | 3388.92                      | 58.90            | NA                    | 46.51               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 09/16/09      | 3388.92                      | 58.90            | NA                    | 46.53               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 09/23/09      | 3388.92                      | 58.90            | NA                    | 46.48               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 09/23/09      | 3388.92                      | 58.90            | NA                    | 46.50               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 09/30/09      | 3388.92                      | 58.90            | NA                    | 46.47               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 09/30/09      | 3388.92                      | 58.90            | NA                    | 46.48               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 10/07/09      | 3388.92                      | 58.90            | NA                    | 46.47               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 10/07/09      | 3388.92                      | 58.90            | NA                    | 46.48               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 10/12/09      | 3388.92                      | 58.90            | NA                    | 46.43               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 10/12/09      | 3388.92                      | 58.90            | NA                    | 46.49               | NA                 | NA              | NA            | NA              | 3342.33                              |
|             | 10/29/09      | 3388.92                      | 58.90            | NA                    | 46.41               | NA                 | pump            | 0.00          | 20.00           | 3342.33                              |
|             | 10/29/09      | 3388.92                      | 58.90            | NA                    | 46.42               | NA                 | NA              | NA            | NA              | 3342.33                              |
| MW-5        | 01/09/08      | 3389.40                      | 59.12            | NA                    | 46.60               | NA                 | NA              | NA            | NA              | 3342.80                              |
|             | 02/06/08      | 3389.40                      | 59.12            | NA                    | 46.63               | NA                 | NA              | NA            | NA              | 3342.77                              |
|             | 02/27/08      | 3389.40                      | 59.12            | NA                    | 46.61               | NA                 | NA              | NA            | NA              | 3342.79                              |
|             | 04/02/08      | 3389.40                      | 59.12            | NA                    | 46.58               | NA                 | NA              | NA            | NA              | 3342.82                              |
|             | 05/22/08      | 3389.40                      | 59.12            | NA                    | 47.14               | NA                 | NA              | NA            | NA              | 3342.26                              |
|             | 06/26/08      | 3389.40                      | 59.12            | NA                    | 47.18               | NA                 | NA              | NA            | NA              | 3342.22                              |
|             | 07/07/08      | 3389.40                      | 59.12            | NA                    | 46.53               | NA                 | NA              | NA            | NA              | 3342.87                              |
|             | 08/20/08      | 3389.40                      | 59.11            | NA                    | 46.60               | NA                 | NA              | NA            | NA              | 3342.80                              |
|             | 10/15/08      | 3389.40                      | 59.16            | NA                    | 47.06               | NA                 | NA              | NA            | NA              | 3342.34                              |
|             | 11/19/08      | 3389.40                      | 59.16            | NA                    | 46.89               | NA                 | NA              | NA            | NA              | 3342.51                              |
|             | 12/21/08      | 3389.40                      | 59.16            | NA                    | 46.99               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 01/07/09      | 3389.40                      | 59.11            | NA                    | 46.87               | NA                 | NA              | NA            | NA              | 3342.53                              |
|             | 02/04/09      | 3389.40                      | 59.17            | NA                    | 46.84               | NA                 | NA              | NA            | NA              | 3342.56                              |
|             | 02/17/09      | 3389.40                      | 59.12            | NA                    | 46.68               | NA                 | NA              | NA            | NA              | 3342.72                              |
|             | 03/04/09      | 3389.40                      | 59.12            | NA                    | 46.69               | NA                 | NA              | NA            | NA              | 3342.71                              |
|             | 04/08/09      | 3389.40                      | 59.12            | NA                    | 46.77               | NA                 | NA              | NA            | NA              | 3342.63                              |
|             | 05/06/09      | 3389.40                      | 59.12            | NA                    | 46.93               | NA                 | NA              | NA            | NA              | 3342.47                              |
|             | 05/19/09      | 3389.40                      | 59.12            | NA                    | 46.96               | NA                 | NA              | NA            | NA              | 3342.44                              |
|             | 06/03/09      | 3389.40                      | 59.12            | NA                    | 46.93               | NA                 | NA              | NA            | NA              | 3342.47                              |
|             | 07/15/09      | 3389.40                      | 59.12            | NA                    | 48.95               | NA                 | NA              | NA            | NA              | 3340.45                              |
|             | 08/05/09      | 3389.40                      | 59.12            | NA                    | 46.84               | NA                 | NA              | NA            | NA              | 3342.56                              |
| MW-6        | 08/26/09      | 3389.40                      | 59.12            | NA                    | 46.98               | NA                 | NA              | NA            | 6.00            | 3342.42                              |
|             | 09/02/09      | 3389.40                      | 59.12            | NA                    | 46.99               | NA                 | NA              | NA            | NA              | 3342.41                              |
|             | 10/07/09      | 3389.40                      | 59.12            | NA                    | 46.89               | NA                 | NA              | NA            | NA              | 3342.51                              |
|             | 01/09/08      | 3389.72                      | 57.26            | NA                    | 47.24               | NA                 | NA              | NA            | NA              | 3342.48                              |
|             | 02/06/08      | 3389.72                      | 57.26            | NA                    | 47.26               | NA                 | NA              | NA            | NA              | 3342.46                              |
|             | 02/27/08      | 3389.72                      | 57.46            | NA                    | 47.24               | NA                 | NA              | NA            | NA              | 3342.48                              |
|             | 04/02/08      | 3389.72                      | 57.46            | NA                    | 47.19               | NA                 | NA              | NA            | NA              | 3342.53                              |
|             | 05/22/08      | 3389.72                      | 57.46            | NA                    | 47.14               | NA                 | NA              | NA            | NA              | 3342.58                              |
|             | 06/27/08      | 3389.72                      | 57.46            | NA                    | 47.24               | NA                 | NA              | NA            | NA              | 3342.48                              |
|             | 07/07/08      | 3389.72                      | 57.46            | NA                    | 47.20               | NA                 | NA              | NA            | NA              | 3342.52                              |
|             | 08/20/08      | 3389.72                      | 57.20            | NA                    | 47.28               | NA                 | NA              | NA            | NA              | 3342.44                              |
|             | 10/15/08      | 3389.72                      | 57.25            | NA                    | 47.70               | NA                 | NA              | NA            | NA              | 3342.02                              |
|             | 11/19/08      | 3389.72                      | 57.25            | NA                    | 47.56               | NA                 | NA              | NA            | NA              | 3342.16                              |
|             | 12/21/08      | 3389.72                      | 57.25            | NA                    | 47.68               | NA                 | NA              | NA            | NA              | 3342.04                              |
|             | 01/07/09      | 3389.72                      | 57.16            | NA                    | 47.54               | NA                 | NA              | NA            | NA              | 3342.18                              |
|             | 02/04/09      | 3389.72                      | 57.14            | NA                    | 47.53               | NA                 | NA              | NA            | NA              | 3342.19                              |
|             | 02/17/09      | 3389.72                      | 57.33            | NA                    | 47.36               | NA                 | NA              | NA            | NA              | 3342.36                              |
|             | 03/04/09      | 3389.72                      | 57.33            | NA                    | 47.37               | NA                 | NA              | NA            | NA              | 3342.35                              |
|             | 04/08/09      | 3389.72                      | 57.33            | NA                    | 47.43               | NA                 | NA              | NA            | NA              | 3342.29                              |
|             | 05/06/09      | 3389.72                      | 57.33            | NA                    | 47.60               | NA                 | NA              | NA            | NA              | 3342.12                              |
|             | 05/19/09      | 3389.72                      | 57.33            | NA                    | 47.59               | NA                 | NA              | NA            | 5.00            | 3342.13                              |
|             | 06/03/09      | 3389.72                      | 57.33            | NA                    | 47.58               | NA                 | NA              | NA            | 5.00            | 3342.14                              |
|             | 07/15/09      | 3389.72                      | 57.33            | NA                    | 47.65               | NA                 | NA              | NA            | 5.00            | 3342.07                              |
|             | 08/05/09      | 3389.72                      | 57.33            | NA                    | 47.51               | 0.00               | NA              | NA            | NA              | 3342.21                              |

**TABLE 1**  
**GROUNDWATER ELEVATION and PSH DATA**  
 Plains Marketing L.P.  
 SRS No. 2000-10807  
 D. S. Hugh Site  
 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        | 08/26/09      | 3389.72                      | 57.45            | NA                    | 47.61               | 0.00               | NA              | NA            | 5               | 3342.11                              |
|             | 09/02/09      | 3389.72                      | 57.45            | NA                    | 47.63               | 0.00               | NA              | NA            | NA              | 3342.09                              |
|             | 10/07/09      | 3389.72                      | 57.45            | NA                    | 47.55               | 0.00               | NA              | NA            | NA              | 3342.17                              |
| MW-7        | 01/09/08      | 3389.28                      | 56.10            | NA                    | 46.75               | NA                 | NA              | NA            | NA              | 3342.53                              |
|             | 02/06/08      | 3389.28                      | 56.10            | NA                    | 46.75               | NA                 | NA              | NA            | NA              | 3342.53                              |
|             | 02/27/08      | 3389.28                      | 55.92            | NA                    | 46.72               | NA                 | NA              | NA            | NA              | 3342.56                              |
|             | 04/02/08      | 3389.28                      | 55.92            | NA                    | 46.69               | NA                 | NA              | NA            | NA              | 3342.59                              |
|             | 05/22/08      | 3389.28                      | 55.92            | NA                    | 46.63               | NA                 | NA              | NA            | NA              | 3342.65                              |
|             | 06/26/08      | 3389.28                      | 55.92            | NA                    | 46.72               | NA                 | NA              | NA            | NA              | 3342.56                              |
|             | 07/07/08      | 3389.28                      | 55.92            | NA                    | 46.72               | NA                 | NA              | NA            | NA              | 3342.56                              |
|             | 08/20/08      | 3389.28                      | 55.88            | NA                    | 46.77               | NA                 | NA              | NA            | NA              | 3342.51                              |
|             | 10/15/08      | 3389.28                      | 55.89            | NA                    | 47.20               | NA                 | NA              | NA            | NA              | 3342.08                              |
|             | 11/19/08      | 3389.28                      | 55.89            | NA                    | 47.08               | NA                 | NA              | NA            | NA              | 3342.20                              |
|             | 12/21/08      | 3389.28                      | 55.89            | NA                    | 47.18               | NA                 | NA              | NA            | NA              | 3342.10                              |
|             | 01/07/09      | 3389.28                      | 55.53            | NA                    | 47.05               | NA                 | NA              | NA            | NA              | 3342.23                              |
|             | 02/04/09      | 3389.28                      | 55.48            | NA                    | 47.05               | NA                 | NA              | NA            | NA              | 3342.23                              |
|             | 02/17/09      | 3389.28                      | 55.82            | NA                    | 46.89               | NA                 | NA              | NA            | NA              | 3342.39                              |
|             | 03/04/09      | 3389.28                      | 55.82            | NA                    | 46.90               | NA                 | NA              | NA            | NA              | 3342.38                              |
|             | 04/08/09      | 3389.28                      | 55.82            | NA                    | 46.90               | NA                 | NA              | NA            | NA              | 3342.38                              |
|             | 05/07/09      | 3389.28                      | 55.82            | NA                    | 47.11               | NA                 | NA              | NA            | NA              | 3342.17                              |
|             | 05/19/09      | 3389.28                      | 55.82            | NA                    | 47.13               | NA                 | NA              | NA            | 5.00            | 3342.15                              |
|             | 06/03/09      | 3389.28                      | 55.82            | NA                    | 47.11               | NA                 | NA              | NA            | NA              | 3342.17                              |
|             | 07/15/09      | 3389.28                      | 55.82            | NA                    | 47.17               | NA                 | NA              | NA            | NA              | 3342.11                              |
|             | 08/05/09      | 3389.28                      | 55.82            | NA                    | 47.07               | 0.00               | NA              | NA            | NA              | 3342.21                              |
|             | 08/26/09      | 3389.28                      | 55.45            | NA                    | 47.13               | 0.00               | NA              | NA            | 5               | 3342.15                              |
|             | 09/02/09      | 3389.28                      | 55.45            | NA                    | 47.17               | 0.00               | NA              | NA            | NA              | 3342.11                              |
|             | 10/07/09      | 3389.28                      | 55.45            | NA                    | 47.10               | 0.00               | NA              | NA            | NA              | 3342.18                              |

NA: Not Applicable  
 NG: Not Gauged

**TABLE 2**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Plains Marketing L.P.  
SRS No. 2000-10807  
D. S. Hugh Site  
Lea County, New Mexico

| Well Number | Sample Date | Sample ID | MTBE (mg/L)                | SW 846-8021B       |                |                     |                      |
|-------------|-------------|-----------|----------------------------|--------------------|----------------|---------------------|----------------------|
|             |             |           |                            | Benzene (mg/L)     | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
|             |             |           | NMOCD Remediation Criteria |                    |                |                     |                      |
|             |             |           |                            | 0.01 mg/L          | 0.75 mg/L      | 0.75 mg/L           | 0.62 mg/L            |
| MW-1        | 12/21/05    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
| MW-1        | 03/28/06    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
| MW-1        | 06/15/06    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
| MW-1        | 09/12/06    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
| MW-1        | 03/01/07    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
| MW-1        | 05/22/08    | T22302-1  | NA                         | 0.512              | 0.439          | 0.141               | 0.323                |
| MW-1        | 05/19/09    | 9052214   | <0.000750                  | 0.0105             | 0.0143         | 0.0061              | 0.0178               |
| MW-1        | 08/26/09    | NS        | NA                         | NS                 | NS             | NS                  | NS                   |
|             |             |           |                            |                    |                |                     |                      |
| MW-2        | 12/21/05    | T12186-1  | NA                         | <0.002             | <0.002         | <0.002              | <0.006               |
| MW-2        | 03/28/06    | T13038-1  | NA                         | <0.00038           | <0.00036       | <0.00035            | <0.00072             |
| MW-2        | 06/15/06    | T13864-1  | NA                         | <0.00038           | <0.00036       | <0.00035            | <0.00072             |
| MW-2        | 09/12/06    | T14673-1  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-2        | 12/06/06    | T15625-1  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-2        | 03/01/07    | T16518-1  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-2        | 06/01/07    | T17666-1  | NA                         | <0.00021           | <0.00023       | <0.00035            | <0.00055             |
| MW-2        | 09/07/07    | T18804-1  | NA                         | <0.00021           | <0.00023       | <0.00035            | <0.00055             |
| MW-2        | 11/13/07    | T19746-1  | NA                         | <0.0005            | <0.0005        | <0.0005             | <0.001               |
| MW-2        | 02/27/08    | T21042-1  | NA                         | 0.00077 J          | <0.00023       | 0.00085 J           | 0.00068 J            |
| MW-2        | 05/22/08    | T22302-2  | NA                         | 0.00029 J          | <0.00023       | <0.00035            | <0.00055             |
| MW-2        | 08/20/08    | T23537-1  | NA                         | <0.0005            | <0.0005        | <0.0005             | <0.001               |
| MW-2        | 11/19/08    | 180051    | NA                         | 0.00230            | <0.00100       | 0.00180             | 0.00130              |
| MW-2        | 02/17/09    | 187738    | NA                         | <0.001             | <0.001         | <0.001              | <0.001               |
| MW-2        | 05/19/09    | 9052214   | <0.000160                  | <0.000133          | <0.000281      | <0.000535           | <0.000960            |
| MW-2        | 08/26/09    | 208335    | NA                         | <0.000133          | <0.000281      | <0.000535           | <0.000960            |
|             |             |           |                            |                    |                |                     |                      |
| MW-3        | 12/21/05    | T12186-2  | NA                         | <0.002             | <0.002         | <0.002              | <0.006               |
| MW-3        | 03/28/06    | T13038-2  | NA                         | <0.00038           | <0.00036       | <0.00035            | <0.00072             |
| MW-3        | 06/15/06    | T13864-2  | NA                         | <0.00038           | <0.00036       | <0.00035            | <0.00072             |
| MW-3        | 09/12/06    | T14673-2  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-3        | 12/06/06    | T15625-2  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-3        | 03/01/07    | T16518-2  | NA                         | <0.00035           | <0.00020       | <0.00033            | <0.00036             |
| MW-3        | 06/01/07    | T17666-2  | NA                         | <0.00021           | <0.00023       | <0.00035            | <0.00055             |
| MW-3        | 09/07/07    | T18804-2  | NA                         | <0.00021           | <0.00023       | <0.00035            | <0.00055             |
| MW-3        | 11/13/07    | T19746-2  | NA                         | <0.0005            | <0.0005        | <0.0005             | <0.001               |
| MW-3        | 02/27/08    | T21042-2  | NA                         | 0.00021 J          | <0.00023       | <0.00035            | <0.00055             |
| MW-3        | 05/22/08    | T22302-3  | NA                         | <0.00021           | <0.00023       | <0.00035            | <0.00055             |
| MW-3        | 08/20/08    | T23537-2  | NA                         | <0.0005            | <0.0005        | <0.0005             | <0.001               |
| MW-3        | 11/19/08    | 180052    | NA                         | <0.00100           | <0.00100       | <0.00100            | <0.00100             |
| MW-3        | 02/17/09    | 187739    | NA                         | <0.001             | <0.001         | <0.001              | <0.001               |
| MW-3        | 05/19/09    | 9052214   | <0.000469                  | <0.000149          | <0.000188      | <0.000178           | <0.000163            |
| MW-3        | 08/26/09    | 208336    | NA                         | <0.000133          | <0.000281      | <0.000535           | <0.000960            |
|             |             |           |                            |                    |                |                     |                      |
| MW-4        | 03/28/06    | T13038-3  | NA                         | 0.2 <sup>a</sup>   | 0.0535         | 0.0384              | 0.115                |
| MW-4        | 06/15/06    | T13864-3  | NA                         | 0.41 <sup>a</sup>  | 0.0926         | 0.144 <sup>a</sup>  | 0.403 <sup>a</sup>   |
| MW-4        | 09/12/06    | T14673-3  | NA                         | 0.617 <sup>a</sup> | 0.025          | 0.232 <sup>a</sup>  | 0.208                |
| MW-4        | 12/06/06    | T15625-3  | NA                         | 1.25 <sup>a</sup>  | 0.196          | 0.581 <sup>a</sup>  | 0.818                |
| MW-4        | 03/01/07    | T16518-3  | NA                         | 1.06               | 0.186          | 0.294               | 0.195                |
| MW-4        | 06/01/07    | T17666-3  | NA                         | 1.25               | 0.0195 J       | 0.349               | 0.192                |
| MW-4        | 09/07/07    | T18804-3  | NA                         | 1.51               | 0.0554         | 0.317               | 0.295                |
| MW-4        | 11/13/07    | T19746-3  | NA                         | 1.38 <sup>a</sup>  | 0.0251         | 0.256               | 0.22                 |
| MW-4        | 02/27/08    | T21042-3  | NA                         | 1.77               | 0.0882         | 0.532               | 0.792                |
| MW-4        | 05/22/08    | T22302-4  | NA                         | 1.09               | 0.0215         | 0.291               | 0.254                |

**TABLE 2**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Plains Marketing L.P.  
SRS No. 2000-10807  
D. S. Hugh Site  
Lea County, New Mexico

| Well Number | Sample Date | Sample ID | SW 846-8021B               |                          |                |                     |                      |
|-------------|-------------|-----------|----------------------------|--------------------------|----------------|---------------------|----------------------|
|             |             |           | MTBE (mg/L)                | Benzene (mg/L)           | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
|             |             |           | NMOCD Remediation Criteria |                          |                |                     |                      |
|             |             |           |                            | 0.01 mg/L                | 0.75 mg/L      | 0.75 mg/L           | 0.62 mg/L            |
| MW-4        | 08/20/08    | T23537-3  | NA                         | <b>0.662<sup>a</sup></b> | 0.0161         | 0.207 <sup>a</sup>  | 0.249                |
| MW-4        | 11/19/08    | 180053    | NA                         | <b>0.567</b>             | 0.0398         | 0.205               | 0.326                |
| MW-4        | 02/17/09    | 187740    | NA                         | <b>0.654</b>             | 0.0451         | 0.196               | 0.507                |
| MW-4        | 05/19/09    | 9052214   | <0.00938                   | <b>0.338</b>             | 0.0259         | 0.174               | 0.319                |
| MW-4        | 08/26/09    | 208337    | NA                         | <b>0.301</b>             | 0.0405         | 0.180               | 0.407                |
| MW-5        | 03/28/06    | T13038-4  | NA                         | <0.00038                 | <0.00036       | <0.00035            | <0.00072             |
| MW-5        | 06/15/06    | T13864-4  | NA                         | <0.00038                 | <0.00036       | <0.00035            | <0.00072             |
| MW-5        | 09/12/06    | T14673-4  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-5        | 12/06/06    | T15625-4  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-5        | 03/01/07    | T16518-4  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-5        | 06/01/07    | T17666-4  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-5        | 09/07/07    | T18804-4  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-5        | 11/13/07    | T19746-4  | NA                         | <0.0005                  | <0.0005        | <0.0005             | <0.001               |
| MW-5        | 02/27/08    | T21042-4  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-5        | 05/22/08    | T22302-5  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-5        | 08/20/08    | T23537-4  | NA                         | <0.0005                  | <0.0005        | <0.0005             | <0.001               |
| MW-5        | 11/19/08    | 180054    | NA                         | <0.00100                 | <0.00100       | <0.00100            | <0.00100             |
| MW-5        | 02/17/09    | 187741    | NA                         | <0.00100                 | <0.00100       | <0.00100            | <0.00100             |
| MW-5        | 05/19/09    | 9052214   | <0.000469                  | <0.000149                | <0.000188      | <0.000178           | <0.000163            |
| MW-5        | 08/26/09    | 208338    | NA                         | <0.000133                | <0.000281      | <0.000535           | <0.000960            |
| MW-6        | 06/15/06    | T13864-5  | NA                         | <0.00038                 | <0.00036       | <0.00035            | <0.00072             |
| MW-6        | 09/12/06    | T14673-5  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-6        | 12/06/06    | T15625-5  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-6        | 03/01/07    | T16518-5  | NA                         | <0.00035                 | <0.00020       | <0.00033            | <0.00036             |
| MW-6        | 06/01/07    | T17666-5  | NA                         | <0.00021                 | <0.00023       | <0.00035            | 0.0014 J             |
| MW-6        | 09/07/07    | T18804-5  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-6        | 11/13/07    | T19746-5  | NA                         | <0.0005                  | <0.0005        | <0.0005             | <0.001               |
| MW-6        | 02/27/08    | T21042-5  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-6        | 05/22/08    | T22302-6  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-6        | 08/20/08    | T23537-5  | NA                         | 0.0065                   | <0.0005        | 0.0037              | <0.001               |
| MW-6        | 11/19/08    | 180055    | NA                         | <0.00100                 | <0.00100       | <0.00100            | <0.00100             |
| MW-6        | 02/17/09    | 187742    | NA                         | <0.00100                 | <0.00100       | <0.00100            | <0.00100             |
| MW-6        | 05/19/09    | 9052214   | <0.000469                  | <0.000149                | <0.000188      | <0.000178           | <0.000163            |
| MW-6        | 08/26/09    | 208339    | NA                         | <0.000133                | <0.000281      | <0.000535           | <0.000960            |
| MW-7        | 06/15/06    | T13864-6  | NA                         | <0.00038                 | <0.00036       | <0.00035            | <0.00072             |
| MW-7        | 09/12/06    | T14673-6  | NA                         | <b>0.0163</b>            | <0.00020       | <0.00033            | 0.0036               |
| MW-7        | 12/06/06    | T15625-6  | NA                         | <b>0.011</b>             | <0.00020       | <0.00033            | 0.004                |
| MW-7        | 03/01/07    | T16518-6  | NA                         | <0.00035                 | <0.00020       | <0.00033            | 0.0053               |
| MW-7        | 06/01/07    | T17666-6  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-7        | 09/07/07    | T18804-6  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-7        | 11/13/07    | T19746-6  | NA                         | <0.0005                  | <0.0005        | <0.0005             | <0.001               |
| MW-7        | 02/27/08    | T21042-6  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-7        | 05/22/08    | T22302-7  | NA                         | <0.00021                 | <0.00023       | <0.00035            | <0.00055             |
| MW-7        | 08/20/08    | T23537-6  | NA                         | 0.00086 J                | <0.0005        | 0.00054 J           | <0.001               |
| MW-7*       | 11/19/08    | 180056    | NA                         | NS                       | NS             | NS                  | NS                   |
| MW-7        | 02/17/09    | 187743    | NA                         | <0.00100                 | <0.00100       | <0.00100            | <0.00100             |
| MW-7        | 05/19/09    | 9052214   | <0.000469                  | <0.000149                | <0.000188      | <0.000178           | <0.000163            |
| MW-7        | 08/26/09    | 208340    | NA                         | <0.000133                | <0.000281      | <0.000535           | <0.000960            |

(a) = Result is from Run #2

Concentration in **Bold** = above NMOCD Remediation Criteria

Note: MW-1 not sampled due to presence of hydrocarbon sheen (NS)

J = Estimated value

\* MW-7 was not sampled in 4th Quarter 2008, due to root growth in the well

NA = Not requested for analysis

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS for**  
**POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) from wells with Sheen/PSH**  
 Plains Marketing, L.P.  
 SRS No. 2000-10807  
 D S Hugh  
 Lea County, New Mexico

| Monitoring Well | Sample Date | Lab Report # | Units                                |            | Naphthalene | Acenaphthylene | Acenaphthene | Flourene | Indeno(1,2,3-cd)pyrene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Benzo[a]-anthracene | Chrysene | Benzo[b]-fluoranthene | Benzo[a]-pyrene | Dibenzofuran | Dibenz[a,h]-anthracene | Benzo[g,h,i]-perylene | Benzo(k)fluoranthene | 1-Methylnaphthalene | 2-Methylnaphthalene | TPH-GRO (C6-C10) | TPH DRO (C10-C28) |
|-----------------|-------------|--------------|--------------------------------------|------------|-------------|----------------|--------------|----------|------------------------|--------------|------------|--------------|--------|---------------------|----------|-----------------------|-----------------|--------------|------------------------|-----------------------|----------------------|---------------------|---------------------|------------------|-------------------|
|                 |             |              | Other regulatory limits (Tap Water)* | Tap Water* |             |                |              |          |                        |              |            |              |        |                     |          |                       |                 |              |                        |                       |                      |                     |                     |                  |                   |
| MW-1            | 5/22/2008   | T22302-1     | 5.0                                  | 10.7       | 30**        | NA             | 365          | 243      | 0.91                   | 1100         | 1830       | 1460         | 183    | 0.91                | 29.1     | 0.91                  | 0.7**           | NA           | 0.091                  | NA                    | 9.1                  | NA                  | 30**                | NA               | NA                |
| MW-1            | 5/19/2009   | 9052214      | 5.0                                  | 6.67       | 10.7        | <1.6           | <1.5         | <2.1     | <2.4                   | <1.6         | <1.8       | <1.6         | <1.1   | <1.4                | <1.3     | <1.5                  | <1.6            | NA           | <1.3                   | <2.5                  | <1.6                 | NA                  | 10.2                | 5.56             | <0.876            |

< = Not Detected  
 Tap Water\* = NMED Tap Water Soil screening levels for residential scenarios.  
 \*\* = NM Water Quality Standard  
 J = Indicates an Estimated Value  
 NA = Not requested for analysis

Table 4  
Summary of Current Monitor Well Data  
and Proposed Groundwater Sampling Schedule  
Plains Marketing L.P.  
SRS No. 2000-10807  
D. S. Hugh Site  
Lea County, New Mexico

| Well ID / Sampling Location | Summary of Current Sampling Data                              | Sampling Objective                 | Current Analytical Sampling Frequency | Proposed Analytical Sampling Frequency | Proposed MNA Sampling Frequency |
|-----------------------------|---------------------------------------------------------------|------------------------------------|---------------------------------------|----------------------------------------|---------------------------------|
| MW-1 / Within the Plume     | High concentration of benzene above the remediation criterion | MNA parameters, COC concentrations | Annual                                |                                        | Semi-annual                     |
| MW-2 / Cross Gradient       | Non-detect                                                    | MNA parameters, COC concentrations | Quarterly                             | Quarterly                              | Semi-annual                     |
| MW-3 / Upgradient           | Non-detect                                                    | COC concentrations only            | Quarterly                             | Annual                                 | NR                              |
| MW-4 / Downgradient         | High concentration of benzene above the remediation criterion | MNA parameters, COC concentrations | Quarterly                             | Quarterly                              | Semi-annual                     |
| MW-5 / Cross gradient       | Non-detect                                                    | COC concentrations only            | Quarterly                             | Annual                                 | NR                              |
| MW-6 / Downgradient         | Non-detect                                                    | MNA parameters, COC concentrations | Quarterly                             | Quarterly                              | Semi-annual                     |
| MW-7 / Downgradient         | Non-detect                                                    | MNA parameters, COC concentrations | Quarterly                             | Quarterly                              | NR                              |

NR - Sampling not required for MNA parameters

**Table 5**  
**Proposed MNA parameters for Semi-annual Sampling Events**  
**Plains Marketing L.P.**  
**SRS No. 2000-10807**  
**D. S. Hugh Site**  
**Lea County, New Mexico**

| Date  | Sampling Location | Field Parameters |                          |              |         |         |     |    | Comment |
|-------|-------------------|------------------|--------------------------|--------------|---------|---------|-----|----|---------|
|       |                   | Instrument used  | Dissolved O <sub>2</sub> | Ferrous Iron | Nitrate | Sulfate | ORP | pH |         |
|       |                   |                  |                          |              |         |         |     |    |         |
| Units |                   |                  | mg/L                     | mg/L         | mg/L    | mg/L    |     |    |         |
|       | MW-1              |                  |                          |              |         |         |     |    |         |
|       | MW-2              |                  |                          |              |         |         |     |    |         |
|       | MW-4              |                  |                          |              |         |         |     |    |         |
|       | MW-6              |                  |                          |              |         |         |     |    |         |

ORP - Oxidation-Reduction Potential  
 O<sub>2</sub> - Oxygen  
 mg/L - milligram per liter (parts per million)  
 s.u. - Standard units

## **APPENDIX C**

### **C141 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 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**

**OPERATOR**

x Initial Report ☐ Final Report

|                                              |                              |           |
|----------------------------------------------|------------------------------|-----------|
| Name of Company Plains Marketing, LP         | Contact Daniel Bryant        |           |
| Address 5805 East Hwy. 80, Midland, TX 79706 | Telephone No. 432-686-1769   |           |
| Facility Name D. S. Hugh Gathering           | Facility Type Steel Pipeline |           |
| Surface Owner Delrose Scott                  | Mineral Owner                | Lease No. |

**LOCATION OF RELEASE**

|                      |               |                 |              |                        |                  |               |                |               |
|----------------------|---------------|-----------------|--------------|------------------------|------------------|---------------|----------------|---------------|
| Unit Letter<br>K     | Section<br>26 | Township<br>21S | Range<br>37E | Feet from the          | North/South Line | Feet from the | East/West Line | County<br>Lea |
| Latitude 32° 26' 48" |               |                 |              | Longitude 103° 08' 07" |                  |               |                |               |

**NATURE OF RELEASE**

|                                                                                                                 |                                           |                                                |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|
| Type of Release Crude Oil                                                                                       | Volume of Release 20 barrels              | Volume Recovered 5 barrels                     |
| Source of Release Steel Pipeline                                                                                | Date and Hour of Occurrence<br>11/10/2000 | Date and Hour of Discovery<br>11/10/2000 13:20 |
| Was Immediate Notice Given?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Donna Williams        |                                                |
| By Whom? Wayne Brunette                                                                                         | Date and Hour 11/10/2000 14:25            |                                                |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No               | If YES, Volume Impacting the Watercourse. |                                                |

If a Watercourse was Impacted, Describe Fully.\*

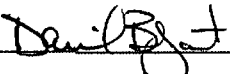
Describe Cause of Problem and Remedial Action Taken.\* Pipeline was clamped to mitigate the release during initial response activities.

Describe Area Affected and Cleanup Action Taken.\*

**NOTE: This information was obtained from historical EOTT files, Plains acquired EOTT/Link on April 1, 2004 and Plains assumes this information to be correct.**

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.

**OIL CONSERVATION DIVISION**

|                                                                                                |                                   |                  |
|------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| Signature:  | Approved by District Supervisor:  |                  |
| Printed Name: Daniel Bryant                                                                    | Approval Date:                    | Expiration Date: |
| Title: Environmental Coordinator                                                               | Conditions of Approval:           |                  |
| E-mail Address: dmbryant@paalp.com                                                             | Attached <input type="checkbox"/> |                  |
| Date: 4/7/2006                                                                                 | Phone: 432-686-1769               |                  |

\* Attach Additional Sheets If Necessary