1R - 464

Annual GW Mon. Report

Year: 2012

PLAINS ALL AMERICAN

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March 19, 2013

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

Re: Plains All American – 2012 Annual Monitoring Reports
4 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

Vacuum to Jal 14" Mainline #3	1R-455	Section 35, T21S, R37E, Lea County
Vacuum to Jal 14" Mainline #5	1R-0464	Section 2, T22S, R37E, Lea County
DS Hugh	1R-0463	Section 26, T21S, R37E, Lea County
Hugh Gathering	AP-0041	Section 11, T21S, R37E, Lea County

EnTech Consulting Corporation (EnTech) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed EnTech personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2012 ANNUAL GROUNDWATER MONITORING REPORT

VACUUM TO JAL 14" MAINLINE #5
LEA COUNTY, NEW MEXICO
UL-A, SECTION 2, T22S R37E
NMOCD NO.: 1R-0464
PLAINS SRS NO.: 2003-00134

PREPARED FOR

PLAINS PIPELINE, L.P.

333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002

PREPARED BY
ENTECH CONSULTING CORPORATION
21 WATERWAY AVE., SUITE 300
THE WOODLANDS, TEXAS 77380
281.362.2714

PROJECT NO. PAA12015

MARCH 2013

CHAN PATEL
SENIOR PROJECT MANAGER

KATHLEEN BUXTON, P.G
SENIOR PROJECT MANAGER

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TABLES

1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

EnTech Consultants (EnTech) has prepared this Annual report on behalf of Plains Pipeline, L.P. (Plains) for the Vacuum to Jal 14" Mainline #5 (site), located in T22S, R37E, Section 2 of Lea County, New Mexico. The site is approximately two miles east of Eunice, New Mexico, and more specifically at latitude 32° 25' 39.006" N and longitude 103° 07' 43.155" W (**Figure 1**). The hydrocarbon impact at the site is the result of a 20-barrel crude oil release that occurred from the pipeline on May 23, 2003. The pipeline was owned by EOTT Energy, LLC (EOTT) at the time of the release, and is currently owned by Plains.

This report presents the data collected at the site during weekly groundwater gauging and phase separated hydrocarbon (PSH) recovery, and four quarterly groundwater sampling events conducted during 2012. The objective of the on-going quarterly groundwater sampling activities at the site is to monitor the concentration of chemicals of concern (COCs) in the affected groundwater. Weekly PSH recovery activities are conducted to remove dissolved phase hydrocarbons and associated residual crude oil.

EnTech was retained by Plains in 2012 to continue the remediation activities at the Vacuum to Jal #5 site, SRS No. 2003-00134. According to the initial Response Notification (NMOCD Form C-141), Mr. Pat McCasland of Environmental Plus, Inc. (EPI) reported the release, on behalf of Mr. Frank Hernandez of EOTT Energy, LLC (EOTT), to the Mexico Oil Conservation Division (NMOCD) on May 23, 2003 at (a copy of the C-141 Release Notification Form was provided in the 2010 Annual Report Dated March 2011). The leak was apparently caused by internal or external corrosion. The line was being pressure tested when the leak occurred.

1.2 Previous Remedial Responses and Environmental Investigations

The previous environmental consultant for the site was EarthCon Consultants, Inc (EarthCon); as of July 1, 2012 EnTech Consulting Corporation (EnTech) was retained by Plains for consulting surfaces for the site. Even though the environmental consultant for the site has changed, the same personnel were retained to complete work for the site.

EPI oversaw the initial emergency response activities at the site in May and June of 2003. According to EPI documents, the May 2003 release resulted in surface impacts in two areas that required excavation. The larger of the two areas was an irregularly shaped area measuring approximately 200 feet by 40 feet, and affected a surface area of approximately 8,885 square feet. The smaller area was an L-shaped area located east of the southern most portion of the larger excavation that measured approximately 40 feet by 60 feet and affected a surface area of approximately 2,500 square ft. The EPI data also revealed the presence of a historical spill at the site identified by the presence of an asphaltine layer that affected an area in the central portion of the larger excavation directly under the existing pipelines (Figure 2).

Based on the information provided by Mr. McCasland and file correspondence between EPI and Plains, approximately 1,466 cubic yards of heavily impacted surface soils were transported off site for treatment at the Lea Station Land Farm in March 2004. The remaining excavated soil was spread out adjacent to the excavation. In March 2004, EPI installed four trenches in areas of known hydrocarbon-impacted soils to further delineate depths of contamination and to determine if the base of the excavation was contaminated.

In January 2006, EarthCon collected twelve composite soil samples from the soils to define the concentration of hydrocarbons remaining in these soils. In March 2006, EarthCon oversaw the installation of six borings and subsequent monitor wells at the site. Following the installation of the six monitor wells, EarthCon began weekly gauging, phase separated hydrocarbon (PSH) recovery and quarterly groundwater sampling activities at the site.

Based on the available soil and groundwater data, a Soil Remediation Plan was prepared and submitted to the NMOCD in May 2006. The objective of the Soil Remediation Plan was to excavate the highly affected soils and to isolate and control residual concentration of COCs in the soil and preventing them from further affecting the groundwater by placement of an impermeable liner at the base of the excavation. The Soil Remediation Plan was approved by the NMOCD in June 2006. During October and November 2006, EarthCon collected additional confirmation soil samples in the open excavations and supervised the completion of over excavation, installation of a liner and backfilling activities. The soil remediation activities such as over excavation, liner placement and backfilling activities were presented in the *Soil Closure Report* dated March 2007. As part of the groundwater investigation activities conducted at the site, EarthCon oversaw the installation of seven additional borings/wells in November 2006 to delineate hydrocarbons in the groundwater. Details associated with the comprehensive site investigation activities conducted in November and December 2006 were presented in the *Site Investigation and Annual Report*, dated March 2007.

These reports document attainment of the risk-based NMOCD approved cleanup objectives for soil established for this site. They also establish that the COCs in groundwater have been delineated. These reports were submitted to the NMOCD for final regulatory approval for closure of soil issues at this site, and a request made for a "No Further Action Required for Soil Remediation" letter from the NMOCD.

The groundwater remediation goals and the proposed remedial approach are discussed in a Groundwater Work Plan submitted to the NMOCD in December 2009. Monitored natural attenuation is the established remedial approach for this site along with source reduction activities including weekly PSH recovery and quarterly groundwater monitoring. During November and December 2006, an additional subsurface investigation to define the lateral extent of affected groundwater beneath the site was conducted that included the installation of four monitor wells (MW-4, MW-5, MW-6 and MW-7) and three additional recovery wells (RW-4, RW-5 and RW-6) to depths between 60 and 61 feet below ground surface (bgs).

In July 2013, EnTech was retained by Plains to continue remediation and groundwater activities at the site.

Groundwater and PSH recovery data for 2012 are presented below in **Section 2**. This report summarized the activities conducted in 2012 for groundwater sampling and analysis and PSH recovery activities.

1.3 Regulatory Framework

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

Chemical of Concern	Limit (mg/L)
Benzene	0.01
Ethylbenzene	0.75
Toluene	0.75
Total Xylenes	0.62
Polynuclear Aromatic Hydrocarbons (PAHs) (1,2)	0.03
Benzo-a-pyrene (2)	0.0007

1 – PAHs: Total naphthalenes plus monomethylnaphthalenes

2 – PAH remediation standards will be used as target concentrations only upon PSH removal.

In addition to using the above values as the target cleanup goals for COC concentrations in groundwater at the site, PSH removal is also an integral part of ongoing remediation activities.

1.4 Limitations

EnTech has examined and relied upon the file information provided by Plains and their contractors, and conversations with Plains personnel and their contractors familiar with the site in question. EnTech has not conducted an independent examination of the information contained in external project files or that provided by Plains or their contract personnel. Furthermore, we assume the genuineness of the documents reviewed and that the information provided in these documents and during the interviews of Plains and contract personnel are true and accurate. EnTech has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. EnTech 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. EnTech believes the conclusions stated herein are factual, but no guarantee is made or implied.

2.0 GROUNDWATER ASSESSMENT AND RESULTS

2.1 Groundwater Monitoring Methodology

Activities conducted at the site in 2012 primarily consisted of gauging wells for groundwater levels, determining the presence or absence of PSH, recovery of product using Mobil Dual Phase Extraction (MDPE) and recovering PSH using absorbent socks, hand bailing, and submersible pumps in monitor and recovery wells. Groundwater sampling of wells not exhibiting PSH was also completed to evaluate the extent of the dissolved-phase hydrocarbon plume.

Measurements of the depth to groundwater and product thickness in wells with hydrocarbon sheen or PSH were completed during the weekly PSH recovery and groundwater sampling events. Seven groundwater monitor wells (MW-1 through MW-7) and six recovery wells (RW-1 through RW-6) were gauged using an oil/water interface probe. The well locations are shown on **Figure 2**.

Groundwater level elevations and the presence of PSH, if any, were noted for each well. In cases where no measurable PSH was detected by the interface probe, the downhole sensor of the probe was examined for the presence of PSH upon removal from the well. Three recovery wells (RW-1, RW-2, and RW-3) contained a measurable PSH thickness or hydrocarbon sheen during 2012. Starting in the second quarter of 2008, all recovery and monitor wells with PSH or sheen were required to be sampled annually for BTEX and PAH annually. Based on the review of the *2010 Annual Groundwater Monitoring Report*, the NMOCD requested that any monitor wells which had a COC which exceeded NMOCD standards also be sampled for PAHs. To meet these requirementsPAH groundwater samples were collected during the second quarter of 2012 from monitor well MW-1 and recovery wells RW-1 through RW-3.

Groundwater monitor wells not exhibiting PSH or hydrocarbon sheen were gauged monthly and sampled quarterly. After collecting and recording groundwater level, each well was purged with a clean electric submersible pump or hand bailed using a clean disposable bailer, and then groundwater samples collected using a new dedicated disposable bailer.

Groundwater samples were poured directly from the disposable bailers into the appropriate laboratory-supplied sample containers. The sample containers were then packaged to prevent breakage, placed on ice in a cooler, and shipped to ALS Environmental of Houston, Texas for analysis. The groundwater samples were analyzed for BTEX by EPA Method SW 846-8021B and PAHs by EPA Method SW 8270.

2.2 Groundwater Gauging

Table 1 summarizes groundwater gauging (elevation and PSH thickness) measurements taken before each quarterly groundwater sampling event in 2012. In addition, weekly groundwater elevation and PSH thickness measurements were recorded prior to and after PSH recovery and monthly measurements were taken from wells without PSH. Groundwater elevations and PSH

thickness measurements were taken in one monitor well (MW-1) and three recovery wells (RW-1 through RW-3) during PSH recovery efforts. Groundwater elevation measurements were recorded monthly for six monitor wells (MW-2 through MW-7) and three recovery wells (RW-4 through RW-6) where PSH or hydrocarbon sheen was absent. Compete historical groundwater elevation and PSH thickness measurements since September 14, 2005 are presented in **Table 2**. The groundwater elevation calculations are based on the top of PVC well casing elevations, which were last surveyed on March 15, 2005 by EarthCon, the previous consultant.

2.3 Groundwater Gradient and Flow Direction

Using the groundwater gauging data and summarized in **Table 1**, groundwater gradient maps were prepared and are included as **Figures 3A** through **3D**. The calculated groundwater gradient and estimated groundwater flow direction are based on the gauging data obtained on February 22, May 22, September 11, and November 26, 2012. The hydraulic gradient in 2012 ranged from 0.0030 to 0.0041 feet/feet (ft/ft), based on groundwater elevations measured between monitor wells MW-4 and MW-7. The groundwater flow direction consistently was to the south.

2.4 Groundwater Analytical Results

Groundwater samples were collected on February 22, May 22, September 11, and November 26 during 2012 from all wells that did not contain PSH (see **Table 3**). The monitor wells were purged by removing a minimum of three to five well volumes of groundwater, or depending on groundwater conditions, bailed dry three times using a disposable bailer and allowed to recover to at least 80% of the initial volume before collecting samples. Groundwater samples were collected and transferred into laboratory-supplied sample containers. The sample containers were placed on ice in a cooler and shipped to ALS Laboratory Group (ALS), in Houston, Texas for analysis. Groundwater samples were analyzed for BTEX using EPA Method SW-846 8021B.

Groundwater samples were collected in the second quarter from monitor well MW-1 which had a COC which exceeded NMOCD standards in 2011 and recovery wells RW-1 through RW-3 due to the presence of PSH. The samples from these 4 wells were analyzed for BTEX and PAHs by EPA Method SW 8270. Analytical results reported for the groundwater samples collected at six wells (MW-2 through MW-7) and three recovery wells (RW-4 through RW-6) displayed BTEX constituent concentrations below laboratory MDLs for all four quarters. Monitor well MW-1 exhibited concentrations of constituents above laboratory MDLs, but below NMOCD remediation criteria the first quarter of groundwater monitoring. For the remaining three quarters, MW-1 was below laboratory MDLs. Recovery wells RW-1 through RW-3 exceeded the NMOCD criteria for benzene during the second quarter. Monitor well MW-1 was also sampled for PAHs analyses to meet NMOCD requirements to sample wells that exceed NMOCD remediation criteria for the previous year. PAH analytical results are presented in **Table 5**.

The 2012 analytical results are presented in **Table 3**, and historical analytical results are presented in **Table 4**. A copy of the laboratory analytical data package is included in **Appendix A**. The groundwater analytical data and PSH thickness data for each quarterly sampling event are presented in **Figures 4A** through **4D**. Table **2.1** below summarizes the BTEX concentrations in which NMOCD Remediation Criteria exceedances were observed in 2012. BTEX concentrations reported in exceedance of NMOCD standards are marked in **bold**.

Table 2.1

2012 BTEX Detected Concentrations (mg/L)

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Benzene	Benzene	Benzene	Benzene
TRRC Remediation Criteria (mg/L)	**0.01**	**0.01**	**0.01**	**0.01**
RW-1	NS	**0.11**	NS	NS
RW-2	NS	**0.19**	NS	NS
RW-3	NS	**0.31**	NS	NS

NOTE: CONCENTRATIONS IN **BOLD** INDICATE EXCEEDANCES OF TRRC REMEDIATION CRITERIA.

J – ESTIMATED. THE ANALYTE WAS DETECTED AND IDENTIFIED AND ASSOCIATED NUMERICAL VALUE IS THE APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

NS – NOT SAMPLED DUE TO PSH SHEEN OR A VISIBLE PSH SHEEN.

2.5 Groundwater Waste Disposal

Purge water from well sampling at wells MW-1 through MW-7 and recovery wells RW-1 through RW-6 is placed in the 1100-gallon above ground storage tank. These liquids are vacuumed from the tank and transported offsite disposal by Key Energy Services of Hobbs, New Mexico.

3.0 PSH RECOVERY

3.1 PSH Recovery Methodology

In addition to collecting groundwater samples, EnTech performed weekly visits to the site to gauge and recover PSH from three wells with PSH/sheen (RW-1, RW-2, and RW-3). Measurements to PSH and water levels were recorded during each site visit (see **Table 2**). PSH recovery activities were completed on a weekly basis using submersible pumps, hand bailer and/or absorbent socks. Routine PSH recovery activities typically consisted of the removal of less than 1 gallon of PSH and 10 to 20 gallons of groundwater with possible dissolved phase hydrocarbons from each well.

Two Mobile Dual Phase Extraction (MDPE) events were conducted at the site during 2012. MDPE is a remediation technique where vacuum is applied to the subsurface through monitor and recovery wells. This vacuum will simultaneously remove vapors and fluids (groundwater and PSH) from the subsurface.

3.2 PSH Recovery via Pumping and Manual bailing

During 2012, measurable PSH was observed in recovery wells RW-1 through RW-3. In general, decreasing trends in the PSH thickness data collected for these wells have been observed over several years. Monthly recovery data for PSH and dissolved phase groundwater are presented in **Table 6**.

PSH thicknesses in recovery well RW-1 indicated an increasing trend during the third and fourth quarters of 2008, however, a general decreasing trend was observed beginning 2009 and continued through the first two quarters of 2012. The maximum thickness in RW-1 during 2012 was observed to be 0.41 ft which occurred during the second quarter of 2012.

The PSH thickness observed in recovery well RW-2 indicated an increase during the third and fourth quarters of 2012. A measurable thickness of 1.01 ft was observed during the fourth quarter of 2012 as part of the increasing depth to groundwater observed at the site.

The PSH thickness in recovery well RW-3 has been reduced to a small measurable thickness during 2012. The maximum measurable thickness was observed in second quarter 2012 with a thickness of 0.54 ft.

3.3 PSH Recovery via MDPE

PSH recovery via MDPE was conducted at the site during 2012 by Plains consultant Talon, LPE (Talon). MDPE events were conducted in February and November 2012 for duration of 12-hours for each event.

MDPE removes multiple phases of hydrocarbons (liquid, dissolved, absorbed and vapor phase) simultaneously by extracting liquids, vapors, and contaminated groundwater from multiple monitor and recovery wells. This is completed with a truck-mounted vacuum and liquid handling system integrated with a mobile hydrocarbon vapor treatment system. High vacuum is applied

to multiple wells with down hole apparatuses to control the fluid elevation in each well. Therefore, the vacuum forcefully induces contaminant liquids and vapors to be simultaneously pulled into the extraction wells from the vadose zone, capillary fringe, and the saturated zone. Extracted contaminant liquids are collected in a designated tank at the site. Volatile vapor emissions are treated by the integrated vapor destruction systems. Fluids generated as part of the MDPE events were stored onsite in separate storage tanks and were disposed of by the Plains contractor in charge of the MDPE events.

During the February 2012 MDPE event, 2,057 total fluids were removed during the event, with 54 gallons of vapor PSH removed and 6 gallons of fluid PSH removed. In November 2012, a second event was conducted at the site. A total of 1199 gallons of fluids were removed during the November event, of which 17.93 gallons were vapor and 3 gallons of PSH recovery.

3.4 PSH Waste Disposal

Approximately 15 gallons of PSH and 1000 gallons total of affected groundwater were recovered from the wells containing PSH or sheen during 2012 during weekly PSH recovery. These totals do not include MDPE fluids recovered. These liquids are vacuumed from the tank and transported offsite disposal by Key Energy Services of Hobbs, New Mexico.

4.0 MONITORED NATURAL ATTENUATION

4.1 Regulatory Framework for Monitored Natural Attenuation

Monitored Natural Attenuation (MNA) is defined by the New Mexico Environemntal Department in 20.5.13 NMAC as "a methodology for remediation that relies upon a variety of naturally occurring chemical, physical and biological processes to achieve target concentrations in a manner that is equally as protective of public health, safety and welfare, and the environment as other methods and that is accompanied by a program of monitoring to document the process and results of the above mentioned processes."

As part of the MNA process several lines of evidence need to be evaluated, the general lines of evidence are listed below:

- **Primary Lines of Evidence (PLOE).** Relies on use of historical groundwater data that demonstrate a clear trend of stable or decreasing COC concentrations over time and with distance away from the source at appropriate monitoring or sampling points.
- **Secondary Lines of Evidence (SLOE).** Uses geochemical indicators to document certain geochemical signatures or "footprints" in the groundwater that demonstrated (indirectly) the type of natural attenuation process(es) occurring at the affected property and the destruction of COCs; or uses distance-based/time-based/biodegradation rate calculations to demonstrate attenuation.
- **Other Lines of Evidence (OLOE).** Most often consists of predictive modeling studies and other lab/field studies that demonstrate an understanding of the natural attenuation process(es) occurring at the affected property and their effectiveness in controlling Protective Concentration Level Exceedance (PCLE) zone migration and decreasing COC concentrations.

4.2 Regulatory Framework for Monitored Natural Attenuation

Vac to Jal #5 site is currently undergoing Plume Stability Analysis. While samples are collected for monitored natural attenuation, insufficient data exists at this time to perform and reliable evaluation.

The dissolved phase plume was evaluated by analyzing groundwater samples collected quarterly from seven monitor wells which did not contain PSH. During the annual sampling conducted in the second quarter, benzene was detected above the NMOCD remediation criteria in recovery wells RW-1, RW-2, RW-3. Benzene concentrations in groundwater sample collected from monitor well MW-1 has decreased to below laboratory detection levels during the second, third, and fourth quarters. The groundwater samples collected from the remaining wells on site reported benzene, toluene, ethylbenene and total xylenes (BTEX) constituent concentrations either below the NMOCD remediation criteria or below the laboratory MDLs.

Understanding plume stability is an important step in the remedial planning process for a site. For instance, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not pose an imminent threat to human health and the environment. An introduction to plume stability analysis and the basis for the plume evaluation at the site was presented in the 2009 Annual Report.

This analysis was conducted in order to understand the overall stability of the benzene plume during 2008, 2009, 2010 and 2011. This study included the development of benzene concentration isopleths maps, an average of the benzene concentrations reported in the four quarterly groundwater sampling events was used for all the wells with no PSH, specifically monitor wells MW-1 through MW-7 and recovery wells RW4 and RW-5. Since the wells with PSH were sampled only during the second quarter groundwater sampling events from 2008 through 2012, the benzene concentrations reported during this sampling event were used in the plume evaluation.

The benzene isopleths maps for 2008, 2009, 2010, 2011, and 2012 are presented in Figures 5 through 9 respectively. Previous maps prepared by EarthCon are presented in Figures 5 through 8. The analytical data collected for the site used for the plume stability analysis indicated that the benzene plume emanating from the site has a decreasing trend in size and mass while the average concentration of benzene appears to be decreasing as well.

5.0 FINDINGS

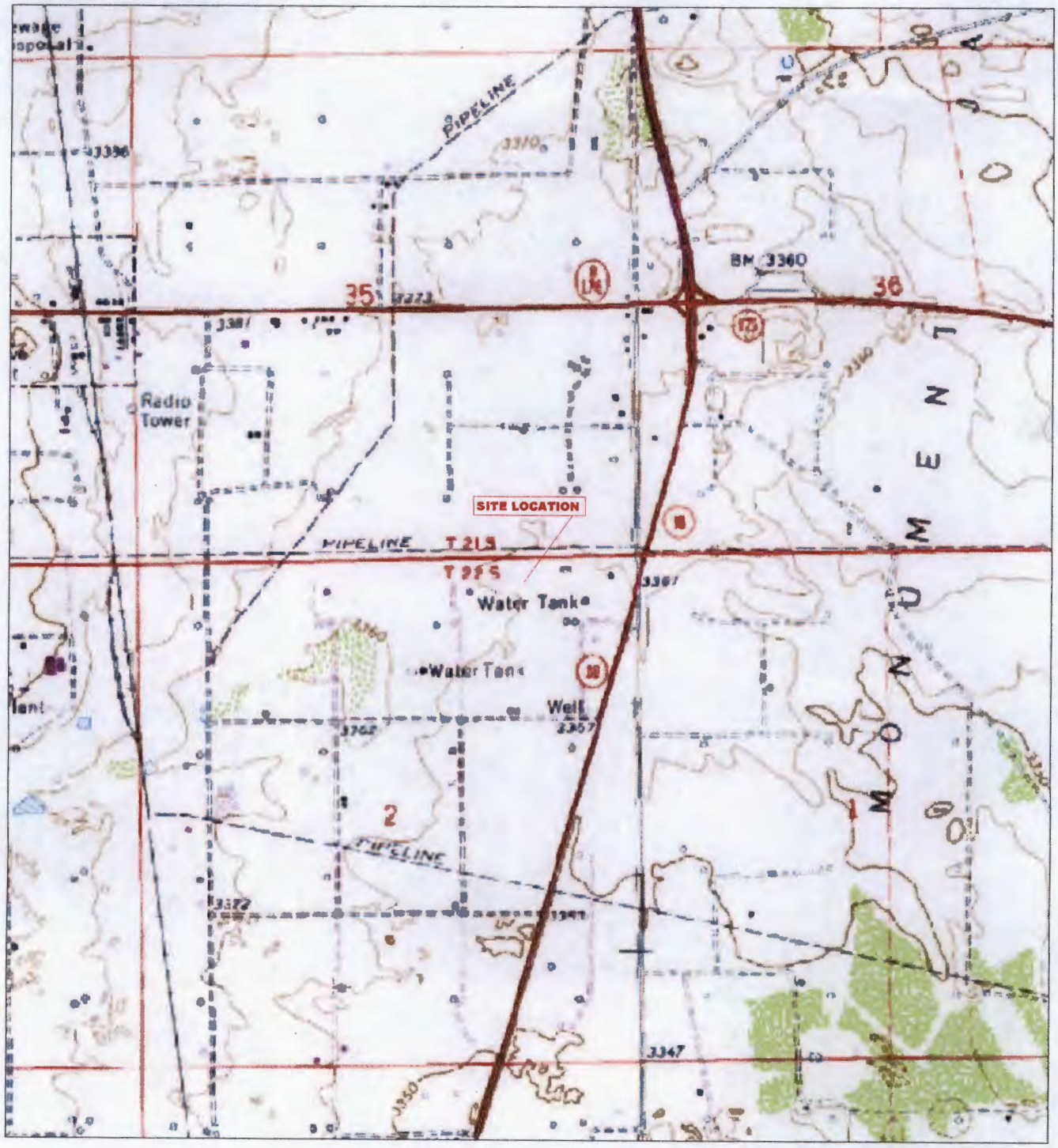
Findings and recommendations resulting from 2012 groundwater monitoring at the Vac to Jal 3 site are summarized below.

- Groundwater flow in the uppermost groundwater-bearing unit is to the south ranging from 0.0030 to 0.0041 ft/ft as measured between wells MW-4 and MW-6.
- Analytical results reported for the groundwater samples collected at ten wells, six monitoring wells(MW-2 through MW-7) and three recovery wells (RW-4 through RW-6) displayed BTEX constituent concentrations below laboratory MDLs for all four quarters. Monitor well MW-1 exhibited benzene above laboratory MDLs, but below NMOCD remediation criteria for all four quarters of groundwater monitoring. Recovery wells RW-1 through RW-3 exceeded the NMOCD criteria for benzene during the second quarter.
- PSH recovery from wells RW-1, RW-2, and RW-3 continued during 2012, and the volume recovered appears to have significantly diminished during the first part of 2012 with increases during the 2nd half of 2012. The estimated quantity of PSH recovered from wells exhibiting PSH totaled approximately 15 gallons, with groundwater recovery totaling approximately 1000 gallons.

Based on PSH recovery data and groundwater sampling completed during 2012 (and previously) at the Vac to Jal #5 site, EnTech recommends the following:

- PSH recovery from wells RW-1 through RW-3 continues on a weekly basis.
- Groundwater monitoring continue on a quarterly basis.

FIGURES



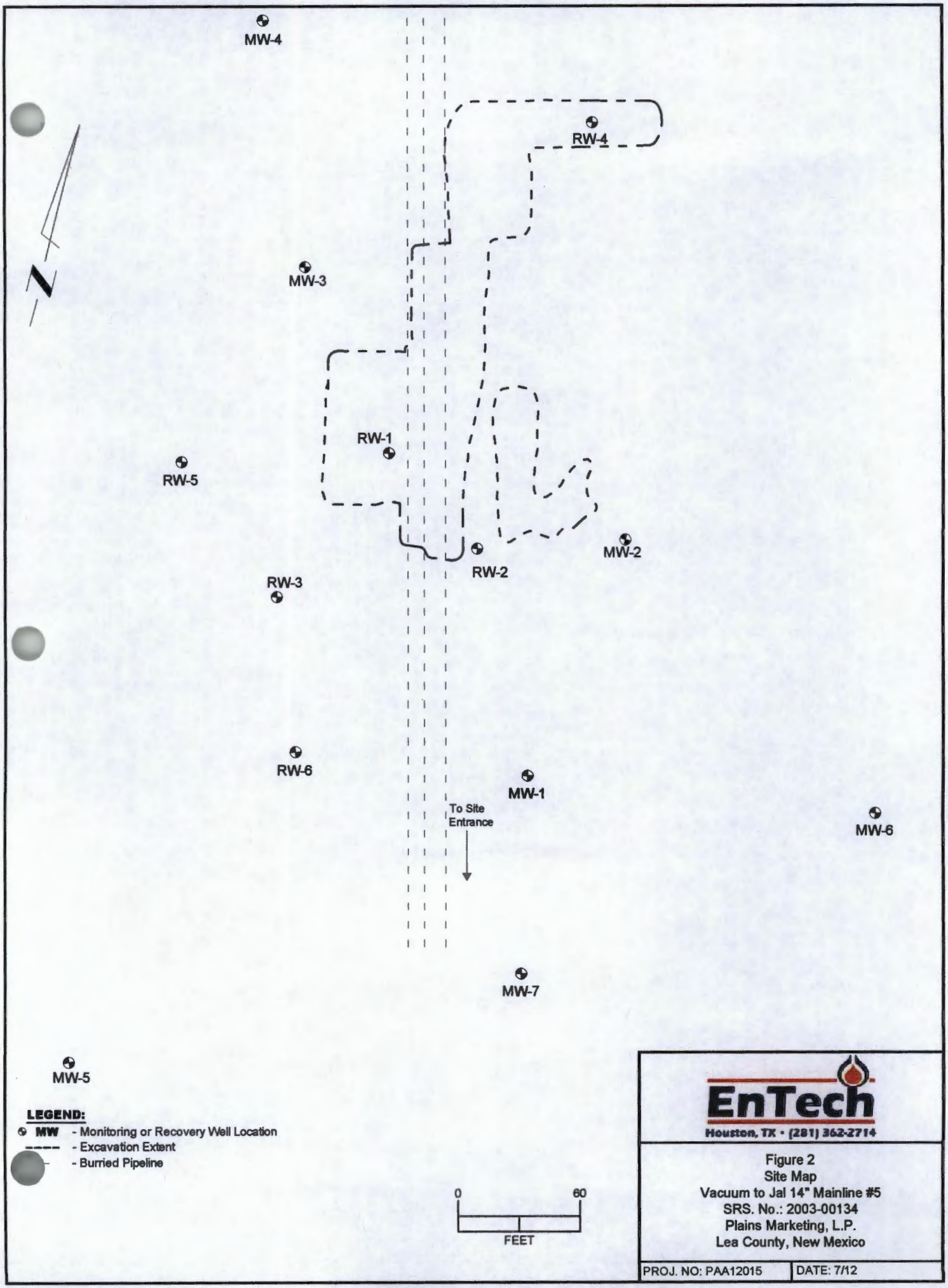
Eunice Quadrangle
32°25'39"N Latitude & 103°07'43"W Longitude

1/2 1/4 0 1/4 1/2
Distance in Miles

EnTech
Houston, TX • (281) 362-2714

Figure 1
Site Location Map
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015	DATE: 3/13



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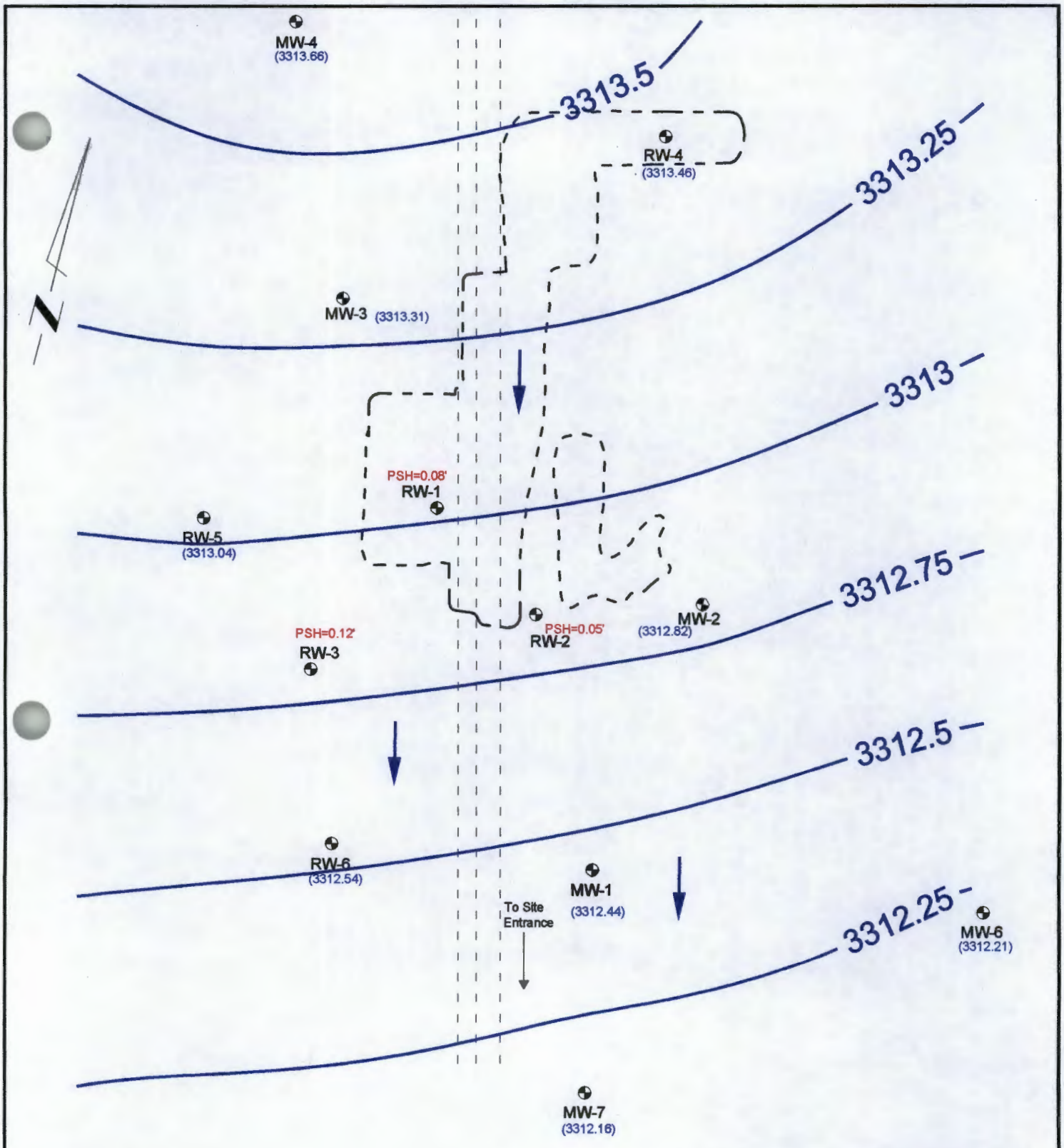
Houston, TX • (281) 362-2714

Figure 2
Site Map
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015	DATE: 7/12



LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Buried Pipeline
- -2860.75- - Groundwater Elevation Contour, ft. Contour Interval = 0.25'
- (2860.46) - Corrected Groundwater Elevation, ft.
- ← - Grounwater Flow Direction

0 60
FEET

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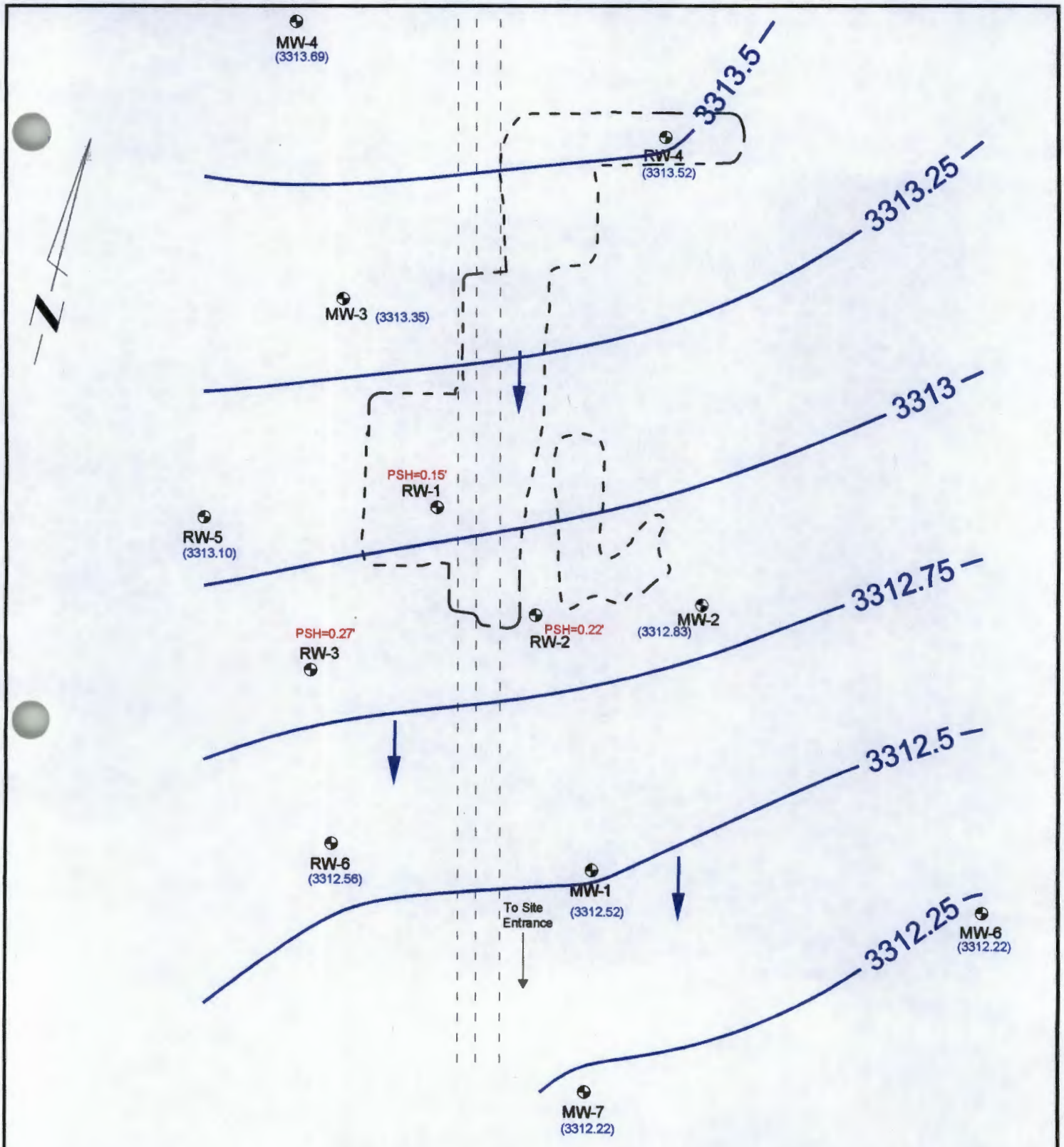
Figure 3A
1st Quarter 2012 - Groundwater Gradient Map
February 22, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015	DATE: 3/13



MW-5
<3314.89>

LEGEND:

- MW - Monitoring or Recovery Well Location
- ---- - Excavation Extent
- - - - Burried Pipeline
- 2860.75 - Groundwater Elevation Contour, ft. Contour Interval = 0.25'
- (2860.46) - Corrected Groundwater Elevation, ft.
- <3314.89> - Elevation Not Used to Contour
- ← - Grounwater Flow Direction

0 60
FEET

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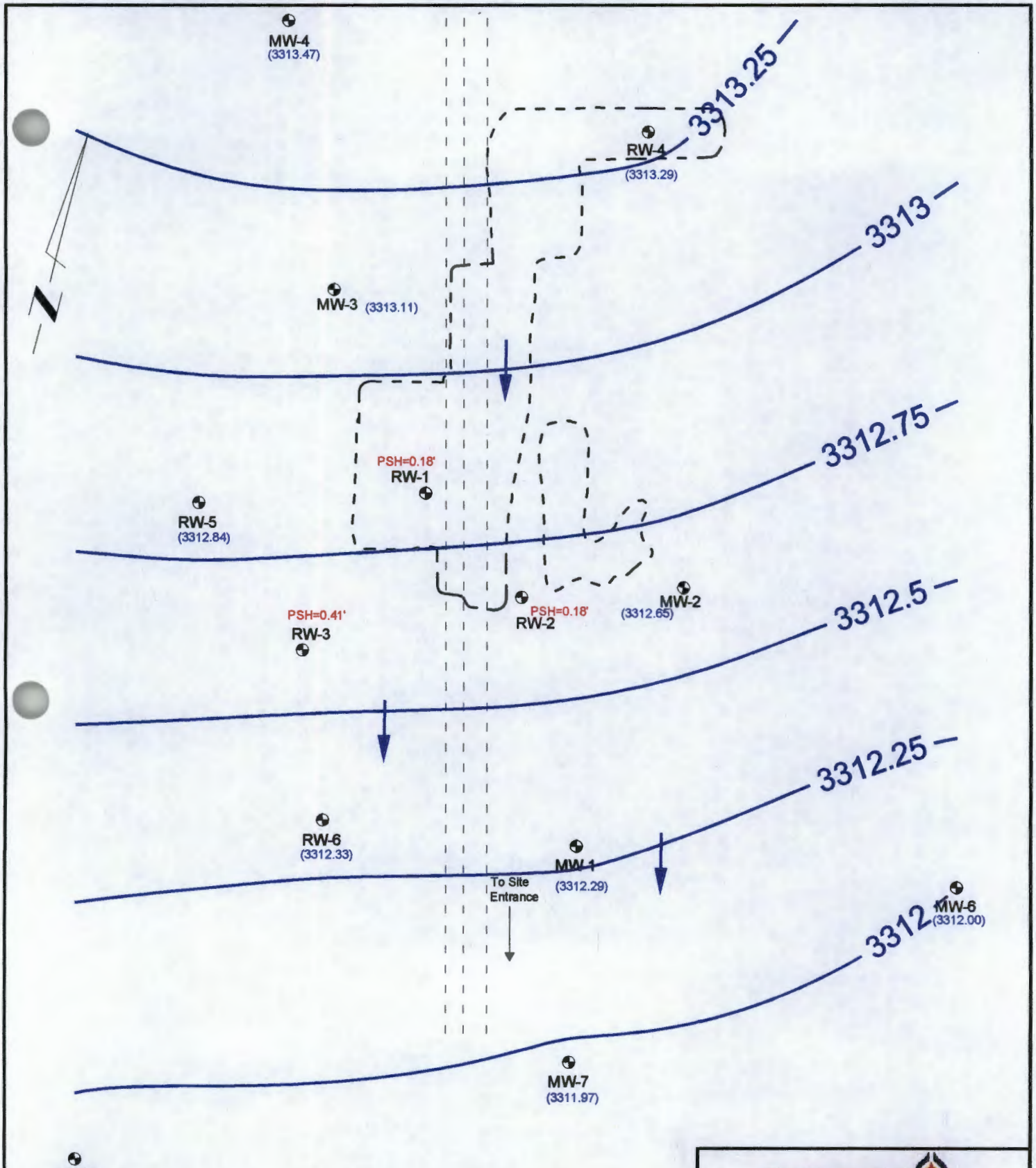
Figure 3B
2nd Quarter 2012 - Groundwater Gradient Map
May 22, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13



LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Burried Pipeline
- 2860.75 - Groundwater Elevation Contour, ft. Contour Interval = 0.25'
- (2860.46) - Corrected Groundwater Elevation, ft.
- ← - Grounwater Flow Direction

0 60
FEET

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Figure 3C
3rd Quarter 2012 - Groundwater Gradient Map
September 11, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13

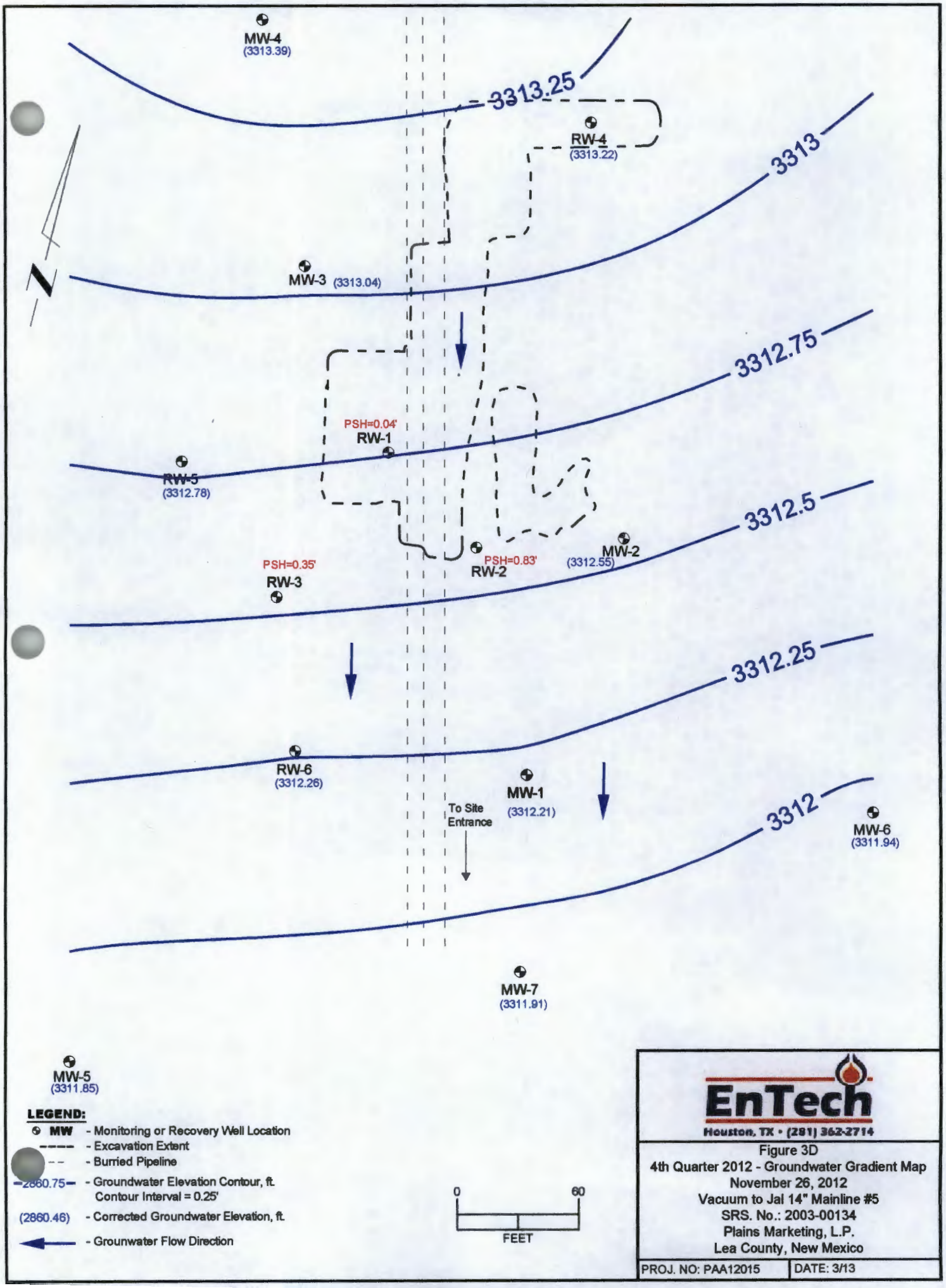
MW-4
(3313.39)
3313.25
RW-4
(3313.22)
3313
MW-3 (3313.04)
3312.75
PSH=0.04'
RW-1
RW-5
(3312.78)
3312.5
PSH=0.35'
RW-3
PSH=0.83'
RW-2
MW-2
(3312.55)
3312.25
RW-6
(3312.26)
MW-1
(3312.21)
To Site
Entrance
3312
MW-6
(3311.94)
MW-7
(3311.91)
MW-5
(3311.85)
LEGEND:
MW - Monitoring or Recovery Well Location
- Excavation Extent
- Burried Pipeline
2860.75 - Groundwater Elevation Contour, ft.
Contour Interval = 0.25'
(2860.46) - Corrected Groundwater Elevation, ft.
- Grounwater Flow Direction
0
60
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Figure 3D
4th Quarter 2012 - Groundwater Gradient Map
November 26, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico
PROJ. NO: PAA12015
DATE: 3/13

MW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-4	02/22/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-3	02/22/12	<0.001	<0.001	<0.001	<0.003

MW-3

RW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-4	02/22/12	<0.001	<0.001	<0.001	<0.003

RW-1

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-5	02/22/12	<0.001	<0.001	<0.001	<0.003

RW-5

MW-2

RW-2

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-2	02/22/12	<0.001	<0.001	<0.001	<0.003

RW-3

RW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-6	02/22/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-1	02/22/12	0.001	<0.001	<0.001	<0.003

MW-1

To Site Entrance

MW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-6	02/22/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-7	02/22/12	<0.001	<0.001	<0.001	<0.003

MW-7

LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Buried Pipeline

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-5	02/22/12	<0.001	<0.001	<0.001	<0.003

MW-5

Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMOCD Remediation Criteria			
0.01	0.75	0.75	0.62

Concentrations in **BOLD** exceed the NMOCD Remediation Criteria for the Site.

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Figure 4A
1st Quarter 2012 Groundwater Analytical Map
February 22, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13

MW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-4	05/22/12	<0.001	<0.001	<0.001	<0.003

RW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-4	05/22/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-3	05/22/12	<0.001	<0.001	<0.001	<0.003

MW-3

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-1	05/22/12	**0.11**	0.066	0.077	0.36

RW-1

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-5	05/22/12	<0.001	<0.001	<0.001	<0.003

RW-5

MW-2

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-2	05/22/12	<0.001	<0.001	<0.001	<0.003

RW-2

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-3	05/22/12	**0.31**	0.66	0.56	**1.1**

RW-3

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-2	05/22/12	**0.19**	0.2	0.18	0.49

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-6	05/22/12	<0.001	<0.001	<0.001	<0.003

RW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-1	05/22/12	<0.001	<0.001	<0.001	<0.003

MW-1

To Site Entrance

MW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-6	05/22/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-7	05/22/12	<0.001	<0.001	<0.001	<0.003

MW-7

LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Buried Pipeline

Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMOCD Remediation Criteria			
0.01	0.75	0.75	0.62

Concentrations in **BOLD** exceed the NMOCD Remediation Criteria for the Site.

MW-5

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-5	05/22/12	<0.001	<0.001	<0.001	<0.003

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Figure 4B
2nd Quarter 2012 Groundwater Analytical Map
May 22, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13

MW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-4	09/11/12	<0.001	<0.001	<0.001	<0.003

RW-4

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-4	09/11/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-3	09/11/12	<0.001	<0.001	<0.001	<0.003

MW-3

RW-1

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-5	09/11/12	<0.001	<0.001	<0.001	<0.003

RW-5

RW-2

MW-2

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-2	09/11/12	<0.001	<0.001	<0.001	<0.003

RW-3

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-6	09/11/12	<0.001	<0.001	<0.001	<0.003

RW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-1	09/11/12	<0.001	<0.001	<0.001	<0.003

MW-1

To Site Entrance

MW-6

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-6	09/11/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-7	09/11/12	<0.001	<0.001	<0.001	<0.003

MW-7

LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Buried Pipeline

Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMOCD Remediation Criteria			
0.01	0.75	0.75	0.62

Concentrations in **BOLD** exceed the NMOCD Remediation Criteria for the Site.

MW-5

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-5	09/11/12	<0.001	<0.001	<0.001	<0.003

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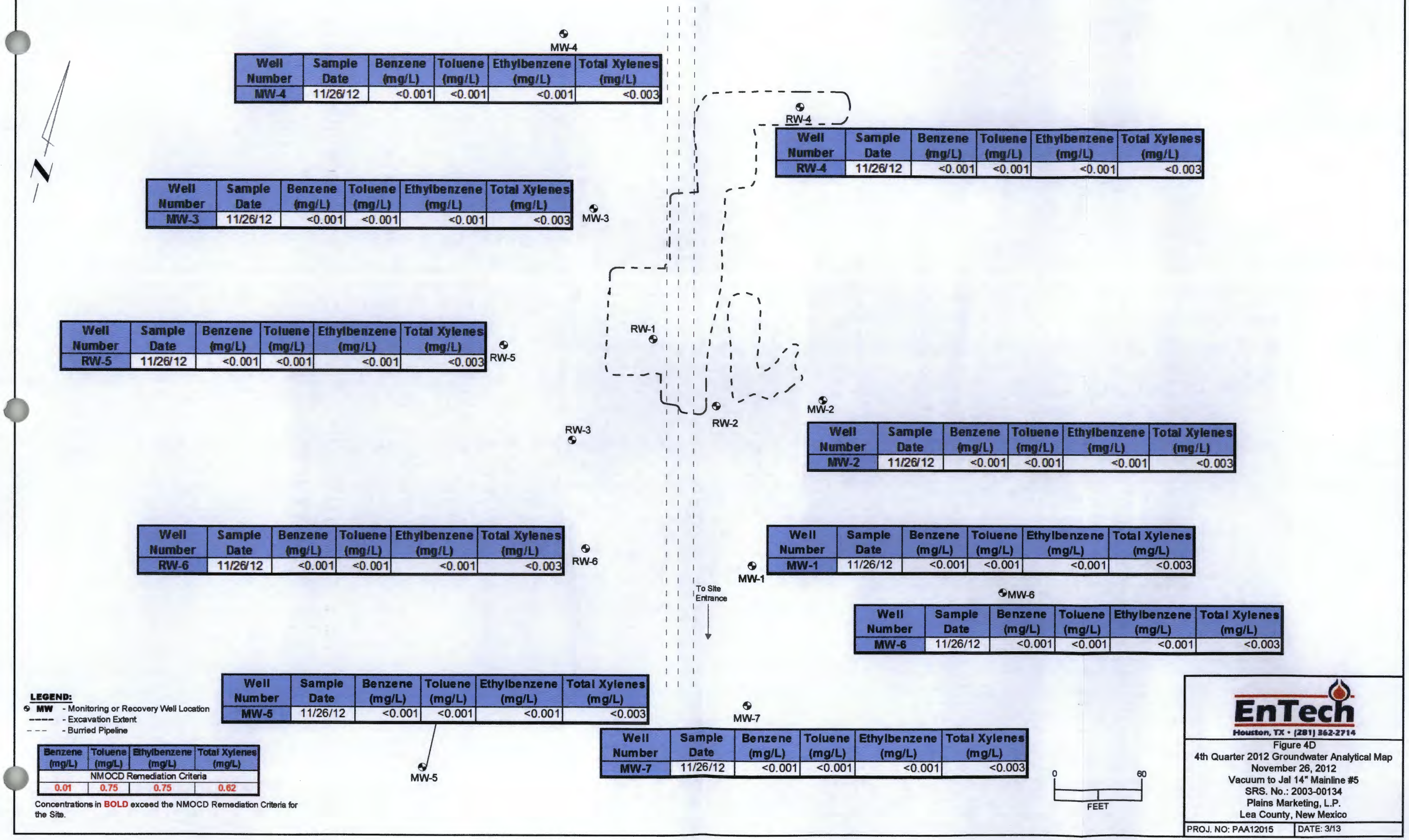
Figure 4C
3rd Quarter 2012 Groundwater Analytical Map
September 11, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13



Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-4	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-4	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-3	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-5	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-2	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
RW-6	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-1	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-6	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-5	11/26/12	<0.001	<0.001	<0.001	<0.003

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-7	11/26/12	<0.001	<0.001	<0.001	<0.003

LEGEND:

- MW - Monitoring or Recovery Well Location
- ----- - Excavation Extent
- - - - Buried Pipeline

Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMOCD Remediation Criteria			
0.01	0.75	0.75	0.62

Concentrations in **BOLD** exceed the NMOCD Remediation Criteria for the Site.

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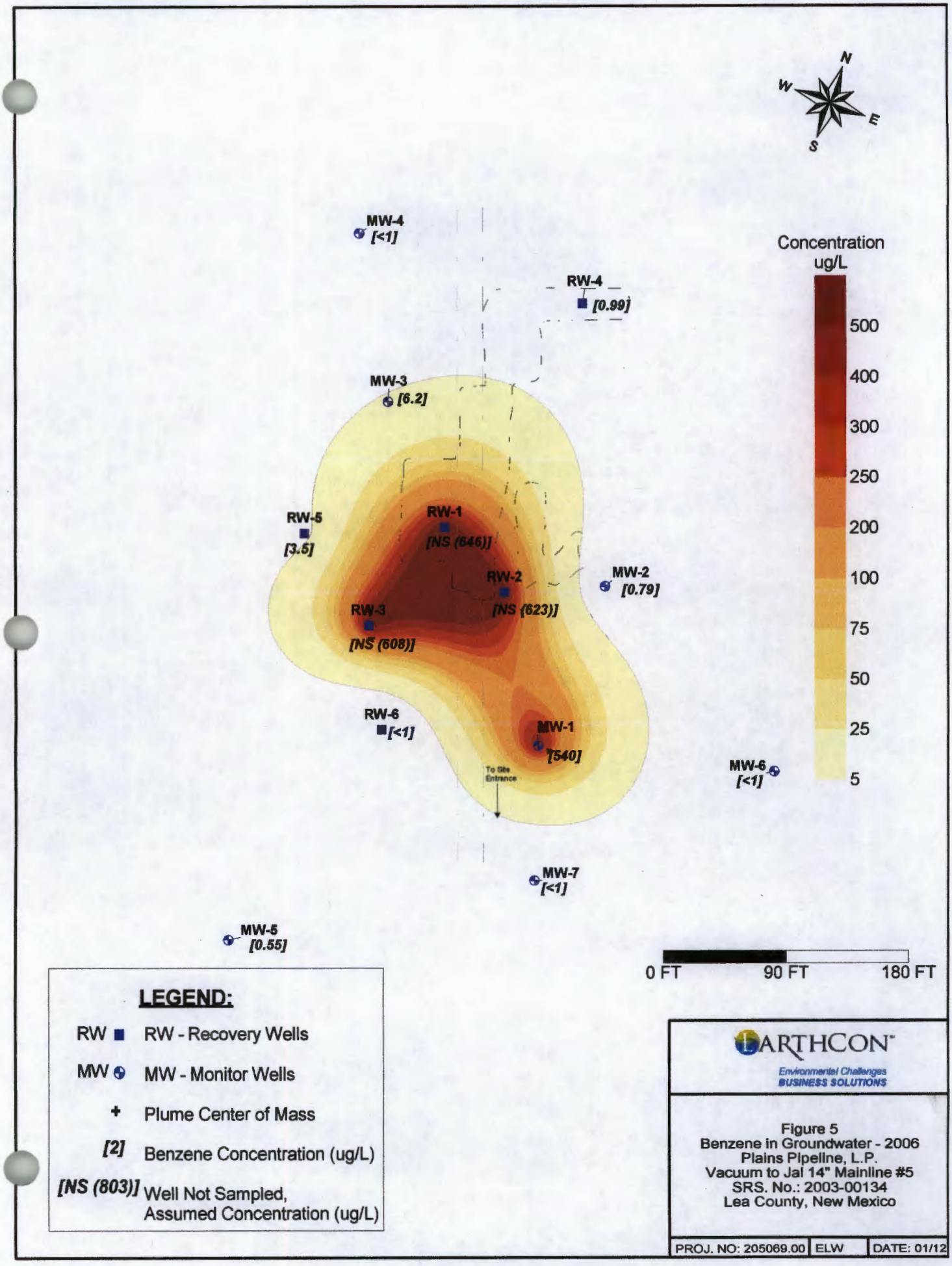
Figure 4D
4th Quarter 2012 Groundwater Analytical Map
November 26, 2012
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13



LEGEND:

RW ■	RW - Recovery Wells
MW ⊕	MW - Monitor Wells
+	Plume Center of Mass
[2]	Benzene Concentration (ug/L)
[NS (803)]	Well Not Sampled, Assumed Concentration (ug/L)

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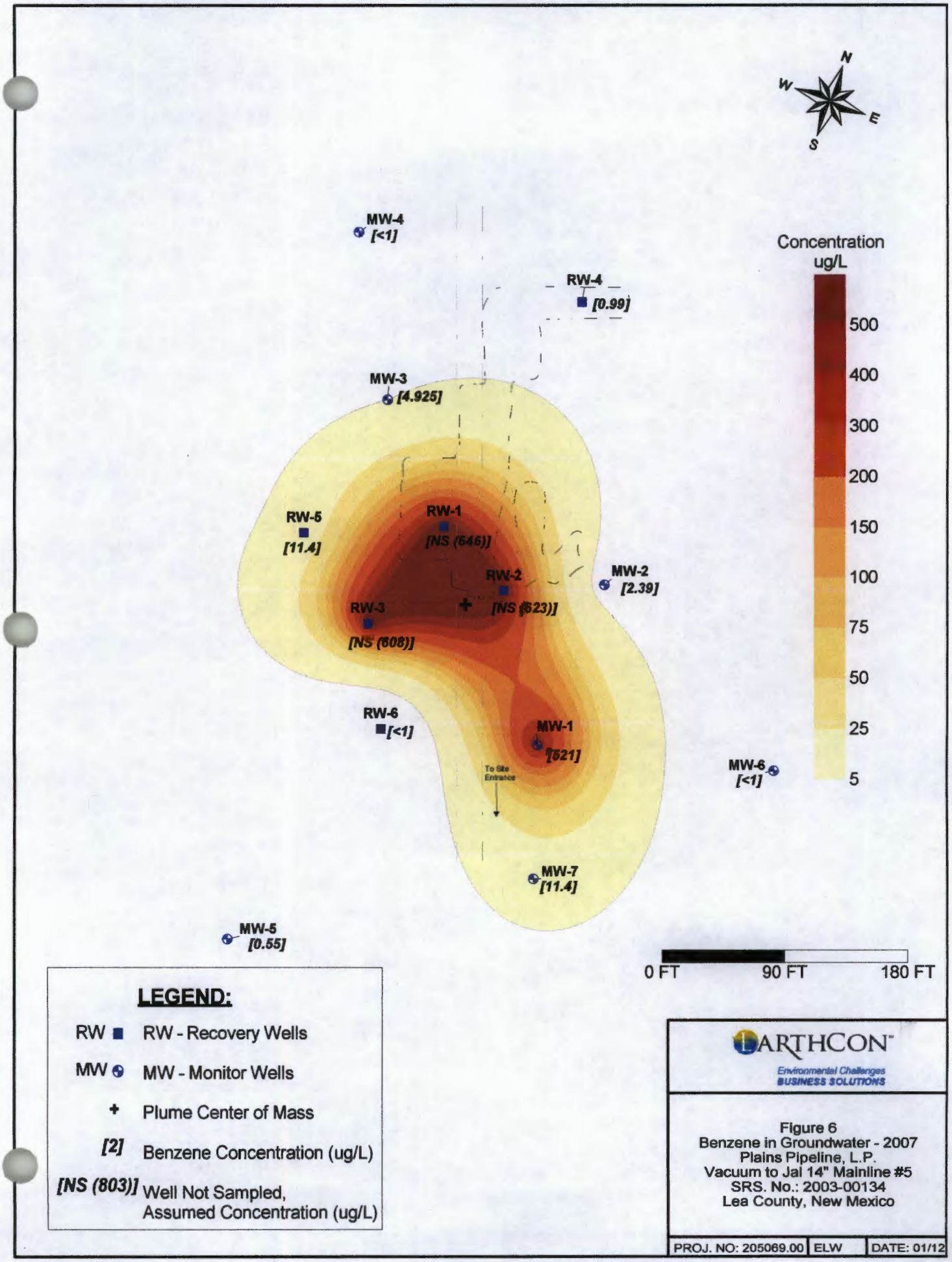
Environmental Challenges
BUSINESS SOLUTIONS

Figure 5
Benzene in Groundwater - 2006
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico

PROJ. NO: 205069.00	ELW	DATE: 01/12



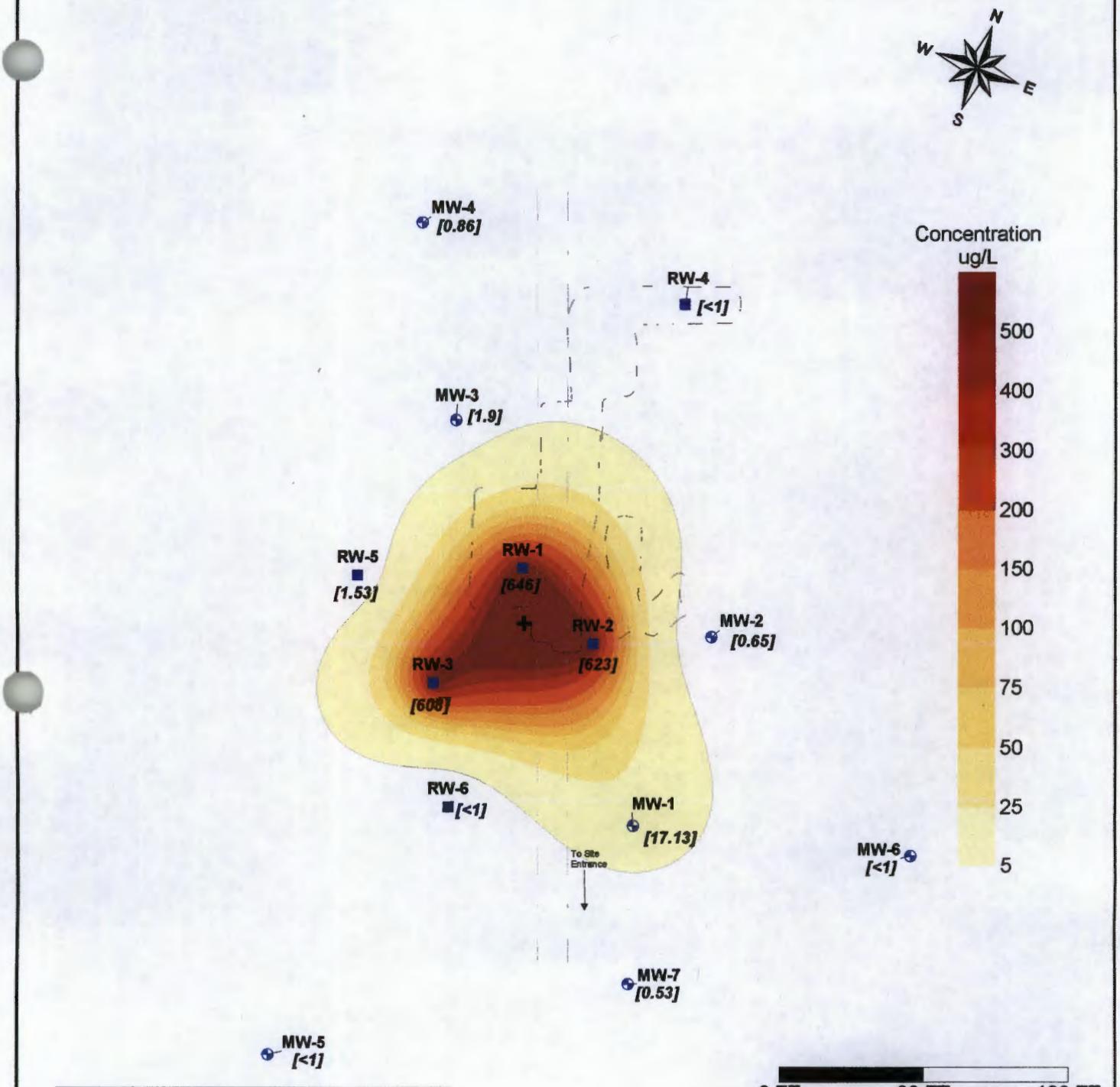
LEGEND:

RW ■	RW - Recovery Wells
MW ⊕	MW - Monitor Wells
+	Plume Center of Mass
[2]	Benzene Concentration (ug/L)
[NS (803)]	Well Not Sampled, Assumed Concentration (ug/L)

EARTHCON
Environmental Challenges
BUSINESS SOLUTIONS

Figure 6
Benzene in Groundwater - 2007
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico

PROJ. NO: 205069.00	ELW	DATE: 01/12



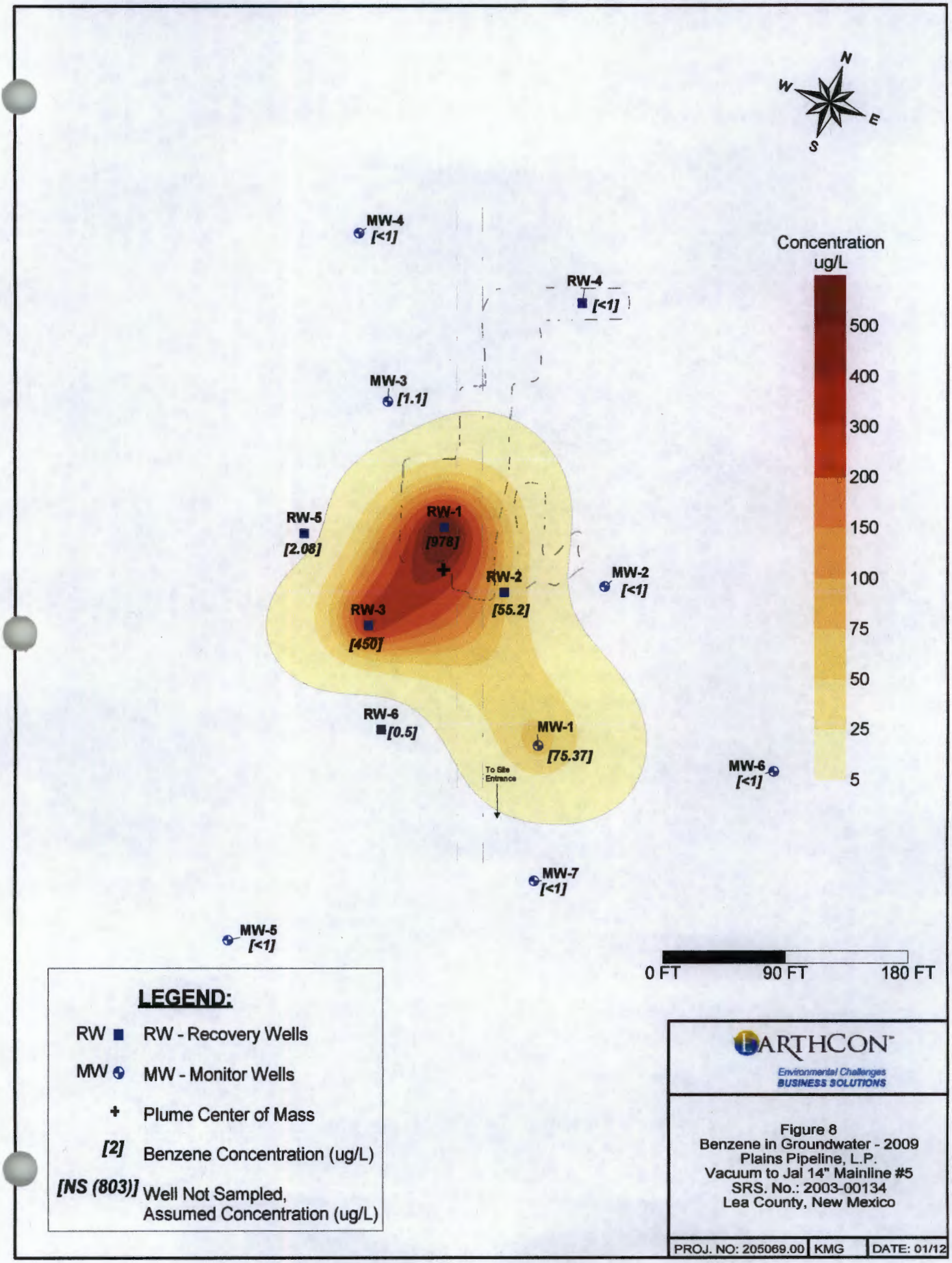
LEGEND:

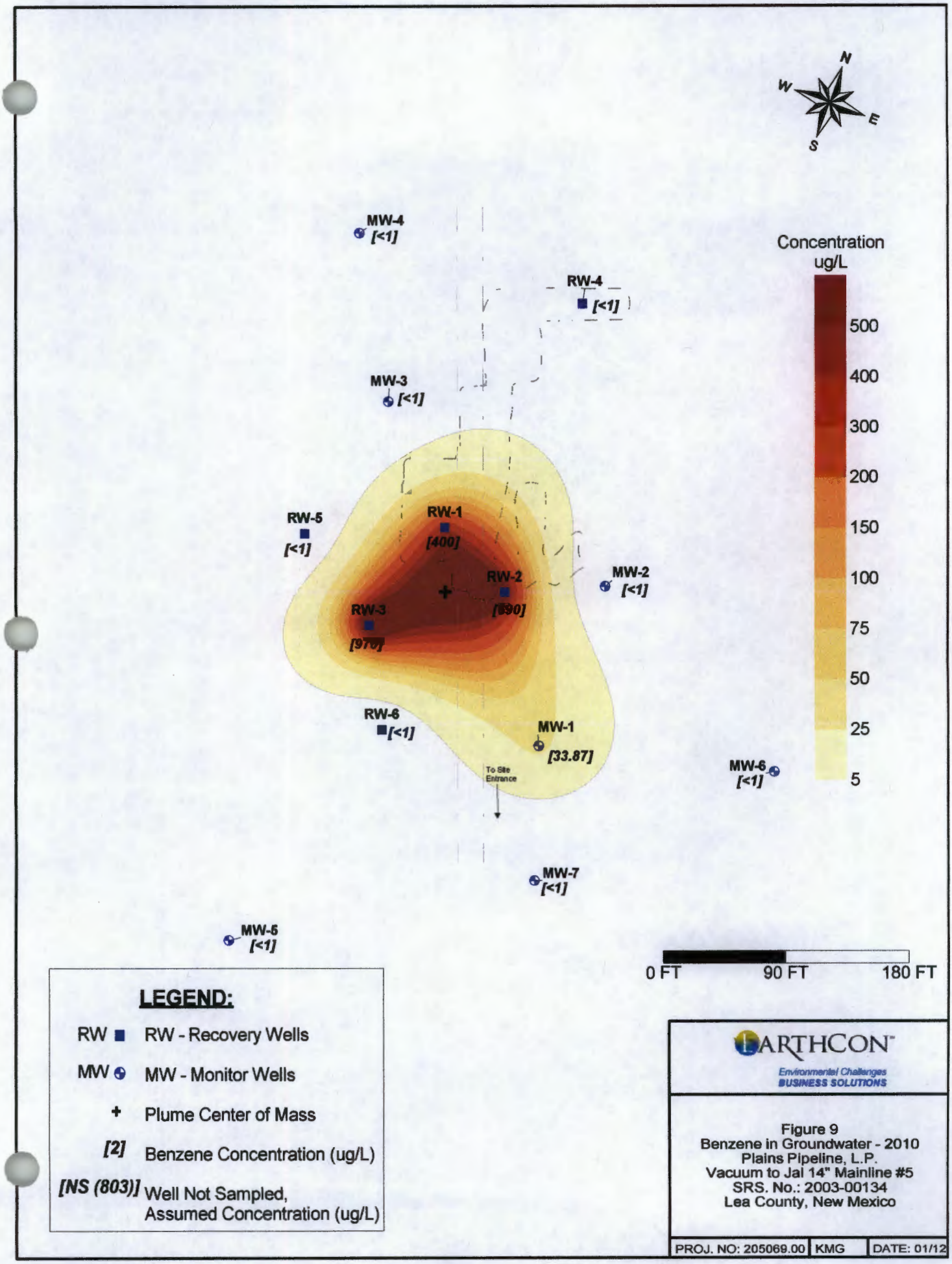
RW ■	RW - Recovery Wells
MW ◔	MW - Monitor Wells
+	Plume Center of Mass
[2]	Benzene Concentration (ug/L)
[NS (803)]	Well Not Sampled, Assumed Concentration (ug/L)

EARTHCON
Environmental Challenges
BUSINESS SOLUTIONS

Figure 7
Benzene in Groundwater - 2008
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico

PROJ. NO: 205069.00	ELW	DATE: 01/12


N
W
E
S
MW-4
[<1]
RW-4
[<1]
MW-3
[1.1]
RW-5
[2.08]
RW-1
[978]
RW-2
[55.2]
MW-2
[<1]
RW-3
[450]
RW-6
[0.5]
MW-1
[75.37]
To Site Entrance
MW-6
[<1]
MW-7
[<1]
MW-5
[<1]
Concentration ug/L
500
400
300
200
150
100
75
50
25
5
0 FT
90 FT
180 FT
LEGEND:
RW ■ RW - Recovery Wells
MW ⊕ MW - Monitor Wells
+ Plume Center of Mass
[2] Benzene Concentration (ug/L)
[NS (803)] Well Not Sampled, Assumed Concentration (ug/L)
EARTHCON
Environmental Challenges BUSINESS SOLUTIONS
Figure 8
Benzene in Groundwater - 2009
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico
PROJ. NO: 205069.00
KMG
DATE: 01/12



LEGEND:

RW ■	RW - Recovery Wells
MW ⊕	MW - Monitor Wells
+	Plume Center of Mass
[2]	Benzene Concentration (ug/L)
[NS (803)]	Well Not Sampled, Assumed Concentration (ug/L)

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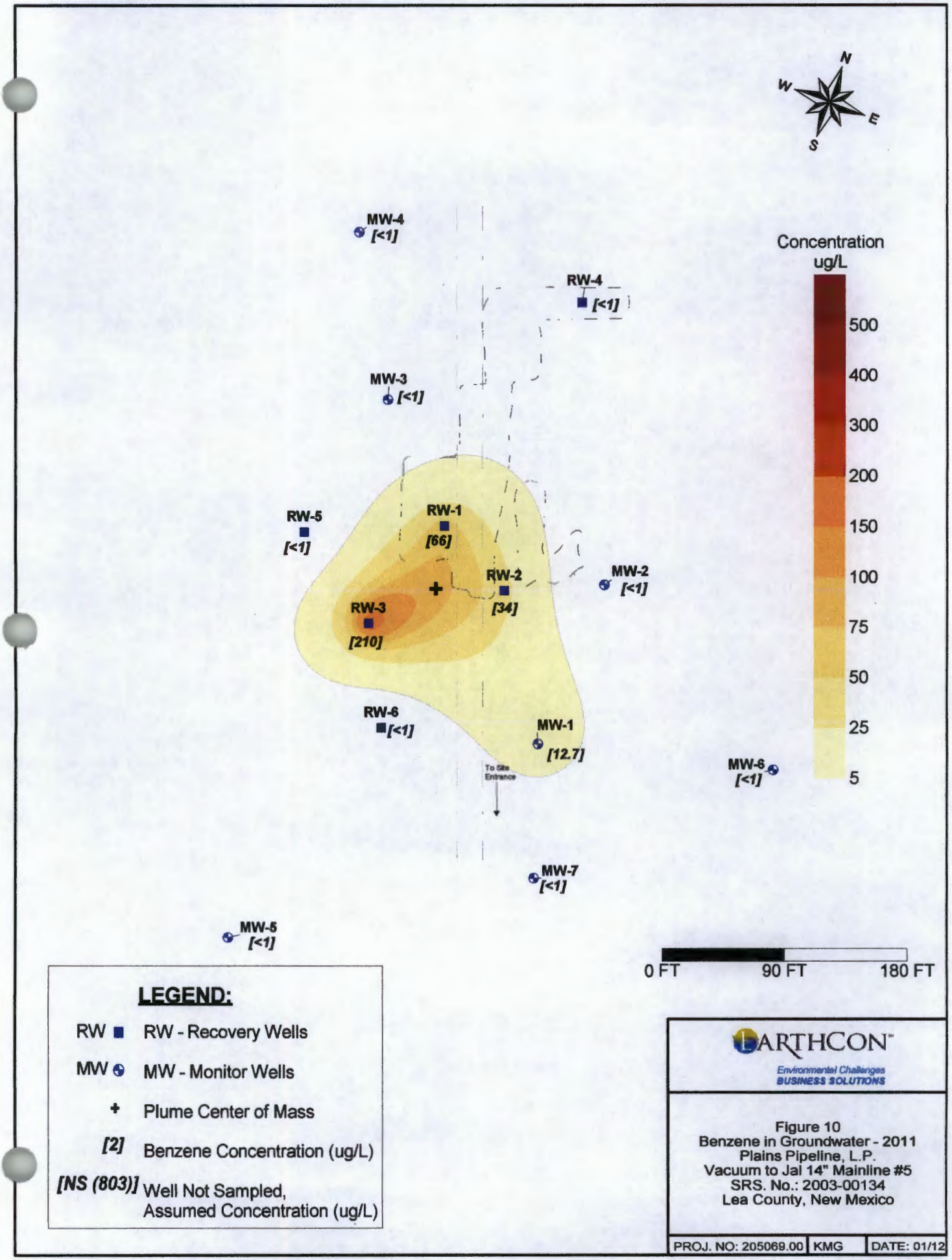
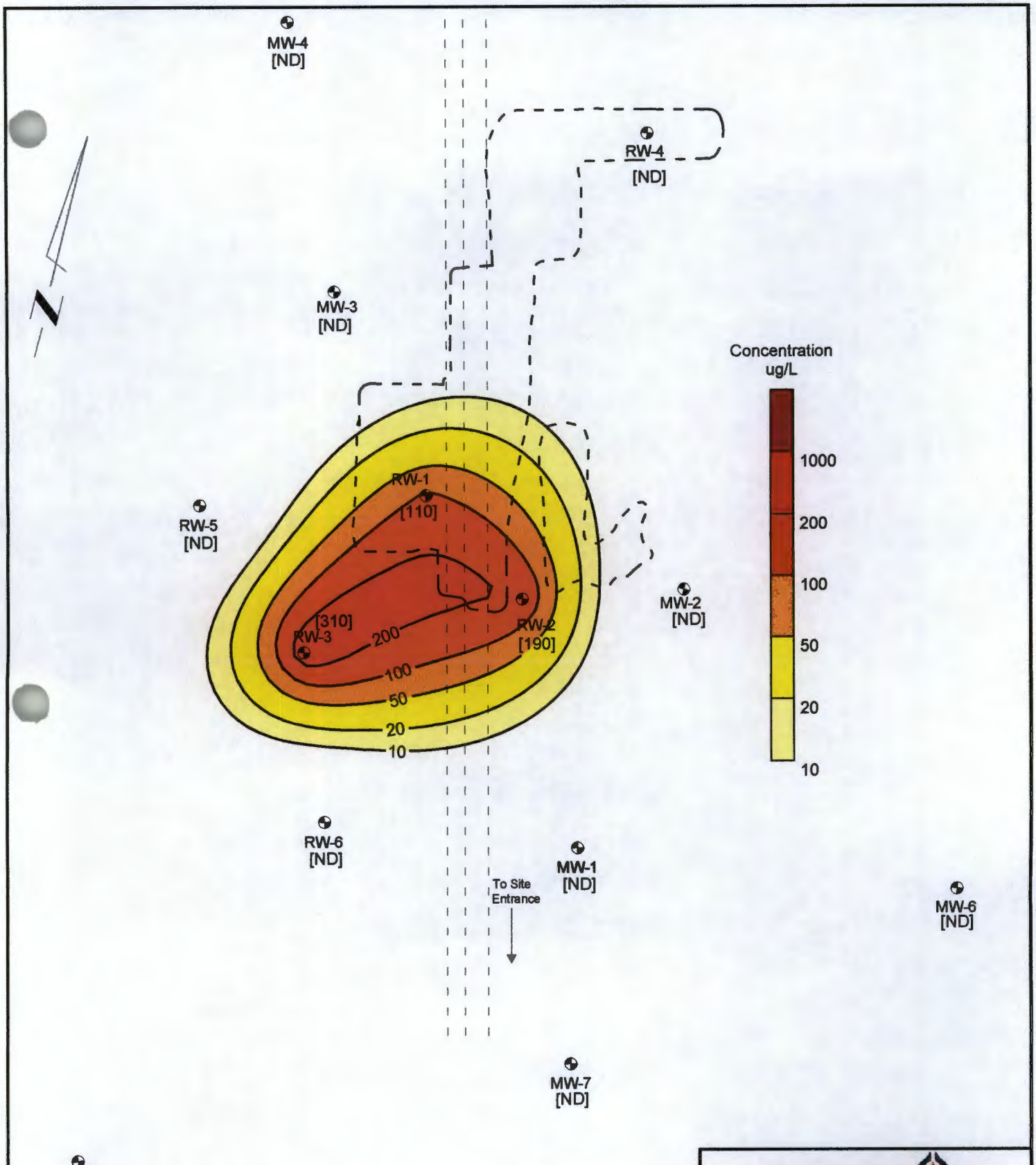
Environmental Challenges
BUSINESS SOLUTIONS

Figure 9
Benzene in Groundwater - 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico

PROJ. NO: 205069.00	KMG	DATE: 01/12


N
W
E
S
MW-4
[<1]
RW-4
[<1]
MW-3
[<1]
RW-5
[<1]
RW-1
[66]
RW-2
[34]
MW-2
[<1]
RW-3
[210]
RW-6
[<1]
MW-1
[12.7]
To Site Entrance
MW-6
[<1]
MW-7
[<1]
MW-5
[<1]
Concentration ug/L
500
400
300
200
150
100
75
50
25
5
0 FT
90 FT
180 FT
LEGEND:
RW RW - Recovery Wells
MW MW - Monitor Wells
Plume Center of Mass
[2] Benzene Concentration (ug/L)
[NS (803)] Well Not Sampled, Assumed Concentration (ug/L)
EARTHCON
Environmental Challenges
BUSINESS SOLUTIONS
Figure 10
Benzene in Groundwater - 2011
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Lea County, New Mexico
PROJ. NO: 205069.00
KMG
DATE: 01/12



LEGEND:

- MW - Monitoring or Recovery Well Location
- [550] - Benzene Concentration in ug/L
- ND - Not Detected

NOTE:
The benzene concentrations presented on this map represent an average of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2012. The only exception is the concentrations reported in groundwater sample collected from RW-1 through RW-3. This wells were only sampled during the 2nd Quarter 2012.

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Figure 11
2012 - Benzene Isopleth Map
Vacuum to Jal 14" Mainline #5
SRS. No.: 2003-00134
Plains Marketing, L.P.
Lea County, New Mexico

PROJ. NO: PAA12015 | DATE: 3/13

TABLES

T E 1

2012 WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
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)	Comments
								PSH	H_2O		
MW-1	02/22/12	3363.04	64.14	ND	50.60	ND	NA	NA	NA	3312.44	Sampled
MW-1	05/22/12	3363.04	64.14	ND	50.52	ND	NA	NA	NA	3312.52	Sampled
MW-1	09/11/12	3363.04	64.14	ND	50.75	ND	NA	NA	NA	3312.29	Sampled
MW-1	11/26/12	3363.04	64.14	ND	50.83	ND	NA	NA	NA	3312.21	Sampled
MW-2	02/22/12	3362.11	64.05	ND	49.29	ND	NA	NA	NA	3312.82	Sampled
MW-2	05/22/12	3362.11	64.05	ND	49.28	ND	NA	NA	NA	3312.83	Sampled
MW-2	09/11/12	3362.11	64.05	ND	49.46	ND	NA	NA	NA	3312.65	Sampled
MW-2	11/26/12	3362.11	64.05	ND	49.56	ND	NA	NA	NA	3312.55	Sampled
MW-3	02/22/12	3362.13	64.68	ND	48.82	ND	NA	NA	NA	3313.31	Sampled
MW-3	05/22/12	3362.13	64.68	ND	48.78	ND	NA	NA	NA	3313.35	Sampled
MW-3	09/11/12	3362.13	64.68	ND	49.02	ND	NA	NA	NA	3313.11	Sampled
MW-3	11/26/12	3362.13	64.68	ND	49.09	ND	NA	NA	NA	3313.04	Sampled
MW-4	02/22/12	3362.49	63.40	ND	48.83	ND	NA	NA	NA	3313.66	Sampled
MW-4	05/22/12	3362.49	63.40	ND	48.80	ND	NA	NA	NA	3313.69	Sampled
MW-4	09/11/12	3362.49	63.40	ND	49.02	ND	NA	NA	NA	3313.47	Sampled
MW-4	11/26/12	3362.49	63.40	ND	49.10	ND	NA	NA	NA	3313.39	Sampled
MW-5	02/22/12	3363.67	63.71	ND	51.55	ND	NA	NA	NA	3312.12	Sampled
MW-5	05/22/12	3363.67	63.71	ND	48.78	ND	NA	NA	NA	3314.89	Sampled
MW-5	09/11/12	3363.67	63.71	ND	51.75	ND	NA	NA	NA	3311.92	Sampled
MW-5	11/26/12	3363.67	63.71	ND	51.82	ND	NA	NA	NA	3311.85	Sampled
MW-6	02/22/12	3362.60	63.41	ND	50.39	ND	NA	NA	NA	3312.21	Sampled
MW-6	05/22/12	3362.60	63.41	ND	50.38	ND	NA	NA	NA	3312.22	Sampled
MW-6	09/11/12	3362.60	63.41	ND	50.60	ND	NA	NA	NA	3312.00	Sampled
MW-6	11/26/12	3362.6	63.41	ND	50.66	ND	NA	NA	NA	3311.94	Sampled
MW-7	02/22/12	3362.75	63.59	ND	50.59	ND	NA	NA	NA	3312.16	Sampled
MW-7	05/22/12	3362.75	63.59	ND	50.53	ND	NA	NA	NA	3312.22	Sampled
MW-7	09/11/12	3362.75	63.59	ND	50.78	ND	NA	NA	NA	3311.97	Sampled
MW-7	11/26/12	3362.75	63.59	ND	50.84	ND	NA	NA	NA	3311.91	Sampled

T. E 1

2012 WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
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)	Comments
RW-1	02/22/12	3348.04	61.65	49.54	49.62	0.08	NA	NA	NA	3298.49	Sampled
RW-1	05/22/12	3348.04	61.65	50.53	50.68	0.15	NA	NA	NA	3297.49	Sampled
RW-1	09/11/12	3348.04	61.65	50.56	50.74	0.18	NA	0.10	10.00	3297.45	Sampled
RW-1	11/26/12	3348.04	61.65	50.71	50.75	0.04	NA	NA	NA	3297.32	Sampled
RW-2	02/22/12	3362.00	61.10	50.57	50.62	0.05	NA	NA	NA	3311.42	Sampled
RW-2	05/22/12	3362.00	61.10	49.48	49.70	0.22	NA	NA	NA	3312.49	Sampled
RW-2	09/11/12	3362.00	61.10	49.52	49.70	0.18	NA	0.10	10.00	3312.45	Sampled
RW-2	11/26/12	3362.00	61.10	49.55	50.38	0.83	NA	NA	NA	3312.33	Sampled
RW-3	02/22/12	3361.93	63.66	50.03	50.15	0.12	NA	NA	NA	3311.88	Sampled
RW-3	05/22/12	3361.93	63.66	49.99	50.26	0.27	NA	NA	NA	3311.90	Sampled
RW-3	09/11/12	3361.93	63.66	50.04	50.45	0.41	NA	0.10	10.00	3311.83	Sampled
RW-3	11/26/12	3361.93	63.66	50.18	50.53	0.35	NA	NA	NA	3311.70	Sampled
RW-4	02/22/12	3363.22	63.51	ND	49.76	ND	NA	NA	NA	3313.46	Sampled
RW-4	05/22/12	3363.22	63.51	ND	49.70	ND	NA	NA	NA	3313.52	Sampled
RW-4	09/11/12	3363.22	63.51	ND	49.93	ND	NA	NA	NA	3313.29	Sampled
RW-4	11/26/12	3363.22	63.51	ND	50.00	ND	NA	NA	NA	3313.22	Sampled
RW-5	02/22/12	3362.38	64.00	ND	49.34	ND	NA	NA	NA	3313.04	Sampled
RW-5	05/22/12	3362.38	64.00	ND	49.28	ND	NA	NA	NA	3313.10	Sampled
RW-5	09/11/12	3362.38	64.00	ND	49.54	ND	NA	NA	NA	3312.84	Sampled
RW-5	11/26/12	3362.38	64.00	ND	49.60	ND	NA	NA	NA	3312.78	Sampled
RW-6	02/22/12	3363.11	64.12	ND	50.57	ND	NA	NA	NA	3312.54	Sampled
RW-6	05/22/12	3363.11	64.12	ND	50.55	ND	NA	NA	NA	3312.56	Sampled
RW-6	09/11/12	3363.11	64.12	ND	50.78	ND	NA	NA	NA	3312.33	Sampled
RW-6	11/26/12	3363.11	64.12	ND	50.85	ND	NA	NA	NA	3312.26	Sampled

NA: Not applicable
ND: Not detected

T. E 2

HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS

Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_2O		
MW-1	03/28/06	3361.00	ND	50.72	ND	NA	NA	NA	3310.28	Sampled
MW-1	03/29/06	3361.00	ND	50.72	ND	NA	NA	NA	3310.28	
MW-1	04/13/06	3361.00	ND	50.75	ND	NA	NA	NA	3310.25	
MW-1	04/25/06	3361.00	ND	50.73	ND	NA	NA	NA	3310.27	
MW-1	05/03/06	3361.00	ND	50.66	ND	NA	NA	NA	3310.34	
MW-1	05/11/06	3361.00	ND	50.77	ND	NA	NA	NA	3310.23	
MW-1	05/24/06	3361.00	ND	50.10	ND	NA	NA	NA	3310.90	
MW-1	06/07/06	3361.00	ND	50.68	ND	NA	NA	NA	3310.32	
MW-1	06/15/06	3361.00	ND	50.68	ND	NA	NA	NA	3310.32	
MW-1	06/29/06	3361.00	ND	50.71	ND	NA	NA	NA	3310.29	
MW-1	07/11/06	3361.00	ND	50.67	ND	NA	NA	NA	3310.33	
MW-1	07/25/06	3361.00	ND	50.68	ND	NA	NA	NA	3310.32	
MW-1	08/09/06	3361.00	ND	50.65	ND	NA	NA	NA	3310.35	
MW-1	08/22/06	3361.00	ND	50.70	ND	NA	NA	NA	3310.30	
MW-1	09/12/06	3361.00	ND	50.65	ND	NA	NA	NA	3310.35	Sampled
MW-1	09/19/06	3361.00	ND	50.67	ND	NA	NA	NA	3310.33	
MW-1	10/03/06	3361.00	ND	50.65	ND	NA	NA	NA	3310.35	
MW-1	10/17/06	3361.00	ND	50.65	ND	NA	NA	NA	3310.35	
MW-1	10/31/06	3361.00	ND	50.67	ND	NA	NA	NA	3310.33	
MW-1	11/15/06	3361.00	ND	50.66	ND	NA	NA	NA	3310.34	
MW-1	12/06/06	3363.04	ND	50.60	ND	NA	NA	NA	3312.44	Sampled
MW-1	12/13/06	3363.04	ND	50.65	ND	NA	NA	NA	3312.39	
MW-1	12/27/06	3363.04	ND	50.49	ND	NA	NA	NA	3312.55	
MW-1	01/03/07	3363.04	ND	50.59	ND	NA	NA	NA	3312.45	
MW-1	01/09/07	3363.04	ND	50.60	ND	NA	NA	NA	3312.44	
MW-1	01/18/07	3363.04	ND	50.54	ND	NA	NA	NA	3312.50	
MW-1	01/22/07	3363.04	ND	50.44	ND	NA	NA	NA	3312.60	
MW-1	02/01/07	3363.04	ND	50.31	ND	NA	NA	NA	3312.73	
MW-1	02/07/07	3363.04	ND	50.51	ND	NA	NA	NA	3312.53	
MW-1	02/14/07	3363.04	ND	50.48	ND	NA	NA	NA	3312.56	
MW-1	02/21/07	3363.04	ND	50.47	ND	NA	NA	NA	3312.57	
MW-1	02/28/07	3363.04	ND	50.38	ND	NA	NA	NA	3312.66	Sampled
MW-1	03/07/07	3363.04	ND	50.46	ND	NA	NA	NA	3312.58	
MW-1	04/03/07	3363.04	ND	50.43	ND	NA	NA	NA	3312.61	
MW-1	05/30/07	3363.04	ND	50.38	ND	NA	NA	NA	3312.66	Sampled

T. E 2

HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-1	06/06/07	3363.04	ND	50.25	ND	NA	NA	NA	3312.79	
MW-1	07/05/07	3363.04	ND	50.26	ND	NA	NA	NA	3312.78	
MW-1	07/31/07	3363.04	ND	50.31	ND	NA	NA	NA	3312.73	
MW-1	09/06/07	3363.04	ND	50.25	ND	NA	NA	NA	3312.79	Sampled
MW-1	10/10/07	3363.04	ND	50.28	ND	NA	NA	NA	3312.76	
MW-1	11/13/07	3363.04	ND	50.31	ND	NA	NA	NA	3312.73	Sampled
MW-1	12/27/07	3363.04	ND	50.28	ND	NA	NA	NA	3312.76	
MW-1	01/09/08	3363.04	ND	50.25	ND	NA	NA	NA	3312.79	
MW-1	02/06/08	3363.04	ND	50.29	ND	NA	NA	NA	3312.75	
MW-1	02/27/08	3363.04	ND	50.42	ND	NA	NA	NA	3312.62	Sampled
MW-1	04/02/08	3363.04	ND	50.28	ND	NA	NA	NA	3312.76	
MW-1	05/28/08	3363.04	ND	50.38	ND	NA	NA	NA	3312.66	Sampled
MW-1	06/18/08	3363.04	ND	50.42	ND	NA	NA	NA	3312.62	
MW-1	07/07/08	3363.04	ND	50.40	ND	NA	NA	NA	3312.64	
MW-1	08/18/08	3363.04	ND	50.46	ND	NA	NA	NA	3312.58	Sampled
MW-1	10/29/08	3363.04	ND	50.52	ND	NA	NA	NA	3312.52	
MW-1	11/19/08	3363.04	ND	50.57	ND	NA	NA	NA	3312.47	Sampled
MW-1	12/21/08	3363.04	ND	50.56	ND	NA	NA	NA	3312.48	
MW-1	01/07/09	3363.04	ND	50.44	ND	NA	NA	NA	3312.60	
MW-1	02/04/09	3363.04	ND	50.53	ND	NA	NA	NA	3312.51	
MW-1	02/17/09	3363.04	ND	50.49	ND	NA	NA	NA	3312.55	Sampled
MW-1	03/04/09	3363.04	ND	50.46*	ND	NA	NA	NA	3312.58	
MW-1	04/08/09	3363.04	ND	50.51	ND	NA	NA	NA	3312.53	
MW-1	05/06/09	3363.04	ND	50.56	ND	NA	NA	NA	3312.48	
MW-1	05/19/09	3363.04	ND	50.61	ND	NA	NA	NA	3312.43	Sampled
MW-1	06/03/09	3363.04	ND	50.63	ND	NA	NA	NA	3312.41	
MW-1	07/15/09	3363.04	ND	50.64	ND	NA	NA	NA	3312.40	
MW-1	08/05/09	3363.04	ND	50.67	ND	NA	NA	NA	3312.37	
MW-1	08/26/09	3363.04	ND	50.68	ND	NA	NA	NA	3312.36	Sampled
MW-1	09/02/09	3363.04	ND	50.68	ND	NA	NA	NA	3312.36	
MW-1	10/07/09	3363.04	ND	50.70	ND	NA	NA	NA	3312.34	
MW-1	11/04/09	3363.04	ND	50.75	ND	NA	NA	NA	3312.29	
MW-1	11/18/09	3363.04	ND	50.70	ND	NA	NA	NA	3312.34	Sampled
MW-1	12/02/09	3363.04	ND	50.78	ND	NA	NA	NA	3312.26	
MW-1	01/06/10	3363.04	ND	50.68	ND	NA	NA	NA	3312.36	
MW-1	02/11/10	3363.04	ND	50.67	ND	NA	NA	NA	3312.37	Sampled

T. E 2

HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-1	03/10/10	3363.04	ND	50.59	ND	NA	NA	NA	3312.45	
MW-1	04/07/10	3363.04	ND	50.64	ND	NA	NA	NA	3312.40	
MW-1	05/05/10	3363.04	ND	50.64	ND	NA	NA	NA	3312.40	
MW-1	05/11/10	3363.04	ND	50.55	ND	NA	NA	NA	3312.49	Sampled
MW-1	06/02/10	3363.04	ND	50.54	ND	NA	NA	NA	3312.50	
MW-1	07/07/10	3363.04	ND	50.58	ND	NA	NA	NA	3312.46	
MW-1	08/03/10	3363.04	ND	50.56	ND	NA	NA	NA	3312.48	
MW-1	08/26/10	3363.04	ND	50.55	ND	NA	NA	NA	3312.49	Sampled
MW-1	09/01/10	3363.04	ND	50.51	ND	NA	NA	NA	3312.53	
MW-1	10/13/10	3363.04	ND	50.64	ND	NA	NA	NA	3312.40	
MW-1	11/18/10	3363.04	ND	50.55	ND	NA	NA	NA	3312.49	Sampled
MW-1	11/23/10	3363.04	ND	50.57	ND	NA	NA	NA	3312.47	
MW-1	12/08/10	3363.04	ND	50.58	ND	NA	NA	NA	3312.46	
MW-1	01/12/11	3363.04	ND	50.59	ND	NA	NA	NA	3312.45	
MW-1	02/08/11	3363.04	ND	50.42	ND	NA	NA	NA	3312.62	
MW-1	02/23/11	3363.04	ND	50.50	ND	NA	NA	NA	3312.54	Sampled
MW-1	03/08/11	3363.04	ND	50.48	ND	NA	NA	NA	3312.56	
MW-1	04/13/11	3363.04	ND	50.45	ND	NA	NA	NA	3312.59	
MW-1	06/01/11	3363.04	ND	50.52	ND	NA	NA	NA	3312.52	Sampled
MW-1	07/27/11	3363.04	ND	50.52	ND	NA	NA	NA	3312.52	
MW-1	08/30/11	3363.04	ND	50.58	ND	NA	NA	NA	3312.46	Sampled
MW-1	09/14/11	3363.04	ND	50.65	ND	NA	NA	NA	3312.39	
MW-1	10/12/11	3363.04	ND	50.65	ND	NA	NA	NA	3312.39	
MW-1	11/28/11	3363.04	ND	50.64	ND	NA	NA	NA	3312.40	Sampled
MW-1	12/27/11	3363.04	ND	50.55	ND	NA	NA	NA	3312.49	
MW-1	01/18/12	3363.04	ND	50.66	ND	NA	NA	NA	3312.38	
MW-1	02/02/12	3363.04	ND	50.58	ND	NA	NA	NA	3312.46	
MW-1	02/15/12	3363.04	ND	50.66	ND	NA	NA	NA	3312.38	
MW-1	02/22/12	3363.04	ND	50.60	ND	NA	NA	NA	3312.44	Sampled
MW-1	04/26/12	3363.04	ND	50.60	ND	NA	NA	NA	3312.44	
MW-1	05/22/12	3363.04	ND	50.52	ND	NA	NA	NA	3312.52	Sampled
MW-1	07/18/12	3363.04	ND	50.72	ND	NA	NA	NA	3312.32	
MW-1	09/11/12	3363.04	ND	50.75	ND	NA	NA	NA	3312.29	
MW-1	11/26/12	3363.04	ND	50.83	ND	NA	NA	NA	3312.21	
MW-2	03/28/06	3362.05	ND	49.50	ND	NA	NA	NA	3312.55	

T E 2
HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-2	03/29/06	3362.05	ND	49.46	ND	NA	NA	NA	3312.59	Sampled
MW-2	04/13/06	3362.05	ND	49.47	ND	NA	NA	NA	3312.58	
MW-2	04/25/06	3362.05	ND	49.45	ND	NA	NA	NA	3312.60	
MW-2	05/03/06	3362.05	ND	49.37	ND	NA	NA	NA	3312.68	
MW-2	05/11/06	3362.05	ND	49.50	ND	NA	NA	NA	3312.55	
MW-2	05/24/06	3362.05	ND	49.43	ND	NA	NA	NA	3312.62	
MW-2	06/07/06	3362.05	ND	49.44	ND	NA	NA	NA	3312.61	
MW-2	06/15/06	3362.05	ND	49.44	ND	NA	NA	NA	3312.61	
MW-2	06/29/06	3362.05	ND	49.43	ND	NA	NA	NA	3312.62	
MW-2	07/11/06	3362.05	ND	49.38	ND	NA	NA	NA	3312.67	
MW-2	07/25/06	3362.05	ND	49.42	ND	NA	NA	NA	3312.63	
MW-2	08/09/06	3362.05	ND	49.35	ND	NA	NA	NA	3312.70	
MW-2	08/22/06	3362.05	ND	49.46	ND	NA	NA	NA	3312.59	
MW-2	09/12/06	3362.05	ND	49.43	ND	NA	NA	NA	3312.62	Sampled
MW-2	09/19/06	3362.05	ND	49.38	ND	NA	NA	NA	3312.67	
MW-2	10/03/06	3362.05	ND	49.35	ND	NA	NA	NA	3312.70	
MW-2	10/17/06	3362.05	ND	49.38	ND	NA	NA	NA	3312.67	
MW-2	10/31/06	3362.05	ND	49.43	ND	NA	NA	NA	3312.62	
MW-2	11/15/06	3362.05	ND	49.37	ND	NA	NA	NA	3312.68	
MW-2	12/06/06	3362.11	ND	49.35	ND	NA	NA	NA	3312.76	Sampled
MW-2	12/13/06	3362.11	ND	49.38	ND	NA	NA	NA	3312.73	
MW-2	12/27/06	3362.11	ND	49.20	ND	NA	NA	NA	3312.91	
MW-2	01/03/07	3362.11	ND	49.33	ND	NA	NA	NA	3312.78	
MW-2	01/09/07	3362.11	ND	49.35	ND	NA	NA	NA	3312.76	
MW-2	01/18/07	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	
MW-2	01/22/07	3362.11	ND	49.16	ND	NA	NA	NA	3312.95	
MW-2	02/01/07	3362.11	ND	49.10	ND	NA	NA	NA	3313.01	
MW-2	02/07/07	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	
MW-2	02/14/07	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	
MW-2	02/21/07	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	
MW-2	02/28/07	3362.11	ND	49.10	ND	NA	NA	NA	3313.01	Sampled
MW-2	03/07/07	3362.11	ND	49.18	ND	NA	NA	NA	3312.93	
MW-2	04/03/07	3362.11	ND	49.13	ND	NA	NA	NA	3312.98	
MW-2	05/03/07	3362.11	ND	49.03	ND	NA	NA	NA	3313.08	
MW-2	05/30/07	3362.11	ND	49.10	ND	NA	NA	NA	3313.01	Sampled
MW-2	06/06/07	3362.11	ND	49.03	ND	NA	NA	NA	3313.08	

T E 2
HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-2	07/05/07	3362.11	ND	49.00	ND	NA	NA	NA	3313.11	
MW-2	07/31/07	3362.11	ND	49.03	ND	NA	NA	NA	3313.08	
MW-2	09/06/07	3362.11	ND	48.98	ND	NA	NA	NA	3313.13	Sampled
MW-2	09/10/07	3362.11	ND	49.01	ND	NA	NA	NA	3313.10	
MW-2	11/13/07	3362.11	ND	49.12	ND	NA	NA	NA	3312.99	Sampled
MW-2	12/27/07	3362.11	ND	49.07	ND	NA	NA	NA	3313.04	
MW-2	01/09/08	3362.11	ND	49.00	ND	NA	NA	NA	3313.11	
MW-2	02/06/08	3362.11	ND	49.01	ND	NA	NA	NA	3313.10	
MW-2	02/27/08	3362.11	ND	49.15	ND	NA	NA	NA	3312.96	Sampled
MW-2	04/02/08	3362.11	ND	49.00	ND	NA	NA	NA	3313.11	
MW-2	05/28/08	3362.11	ND	49.13	ND	NA	NA	NA	3312.98	Sampled
MW-2	06/18/08	3362.11	ND	49.18	ND	NA	NA	NA	3312.93	
MW-2	07/07/08	3362.11	ND	49.16	ND	NA	NA	NA	3312.95	
MW-2	08/18/08	3362.11	ND	49.18	ND	NA	NA	NA	3312.93	Sampled
MW-2	10/29/08	3362.11	ND	49.26	ND	NA	NA	NA	3312.85	
MW-2	11/19/08	3362.11	ND	49.26	ND	NA	NA	NA	3312.85	Sampled
MW-2	12/21/08	3362.11	ND	49.29	ND	NA	NA	NA	3312.82	
MW-2	01/07/09	3362.11	ND	49.17	ND	NA	NA	NA	3312.94	
MW-2	02/04/09	3362.11	ND	49.96	ND	NA	NA	NA	3312.15	
MW-2	02/17/09	3362.11	ND	49.22	ND	NA	NA	NA	3312.89	Sampled
MW-2	03/04/09	3362.11	ND	49.20	ND	NA	NA	NA	3312.91	
MW-2	04/08/09	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	
MW-2	05/06/09	3362.11	ND	49.27	ND	NA	NA	NA	3312.84	
MW-2	05/19/09	3362.11	ND	49.31	ND	NA	NA	NA	3312.80	Sampled
MW-2	06/03/09	3362.11	ND	49.35	ND	NA	NA	NA	3312.76	
MW-2	07/15/09	3362.11	ND	49.37	ND	NA	NA	NA	3312.74	
MW-2	08/05/09	3362.11	ND	49.39	ND	NA	NA	NA	3312.72	
MW-2	08/26/09	3362.11	ND	49.42	ND	NA	NA	NA	3312.69	Sampled
MW-2	09/02/09	3362.11	ND	49.40	ND	NA	NA	NA	3312.71	
MW-2	10/07/09	3362.11	ND	49.41	ND	NA	NA	NA	3312.70	
MW-2	11/04/09	3362.11	ND	49.47	ND	NA	NA	NA	3312.64	
MW-2	11/18/09	3362.11	ND	49.42	ND	NA	NA	NA	3312.69	Sampled
MW-2	12/02/09	3362.11	ND	49.49	ND	NA	NA	NA	3312.62	
MW-2	01/06/10	3362.11	ND	49.41	ND	NA	NA	NA	3312.70	
MW-2	02/11/10	3362.11	ND	49.43	ND	NA	NA	NA	3312.68	Sampled
MW-2	03/10/10	3362.11	ND	49.31	ND	NA	NA	NA	3312.80	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-2	04/07/10	3362.11	ND	49.37	ND	NA	NA	NA	3312.74	
MW-2	05/05/10	3362.11	ND	49.43	ND	NA	NA	NA	3312.68	
MW-2	05/11/10	3362.11	ND	49.27	ND	NA	NA	NA	3312.84	Sampled
MW-2	06/02/10	3362.11	ND	49.27	ND	NA	NA	NA	3312.84	
MW-2	07/07/10	3362.11	ND	49.30	ND	NA	NA	NA	3312.81	
MW-2	08/03/10	3362.11	ND	49.26	ND	NA	NA	NA	3312.85	
MW-2	08/26/10	3362.11	ND	49.25	ND	NA	NA	NA	3312.86	Sampled
MW-2	09/01/10	3362.11	ND	49.22	ND	NA	NA	NA	3312.89	
MW-2	10/13/10	3362.11	ND	49.37	ND	NA	NA	NA	3312.74	
MW-2	11/18/10	3362.11	ND	49.28	ND	NA	NA	NA	3312.83	Sampled
MW-2	11/23/10	3362.11	ND	49.30	ND	NA	NA	NA	3312.81	
MW-2	12/08/10	3362.11	ND	49.34	ND	NA	NA	NA	3312.77	
MW-2	01/12/11	3362.11	ND	49.31	ND	NA	NA	NA	3312.80	
MW-2	02/08/11	3362.11	ND	49.16	ND	NA	NA	NA	3312.95	
MW-2	02/23/11	3362.11	ND	49.19	ND	NA	NA	NA	3312.92	Sampled
MW-2	03/08/11	3362.11	ND	49.20	ND	NA	NA	NA	3312.91	
MW-2	04/13/11	3362.11	ND	49.18	ND	NA	NA	NA	3312.93	
MW-2	06/01/11	3362.11	ND	49.23	ND	NA	NA	NA	3312.88	Sampled
MW-2	07/27/11	3362.11	ND	49.23	ND	NA	NA	NA	3312.88	
MW-2	08/30/11	3362.11	ND	49.29	ND	NA	NA	NA	3312.82	Sampled
MW-2	09/14/11	3362.11	ND	49.38	ND	NA	NA	NA	3312.73	
MW-2	10/12/11	3362.11	ND	49.39	ND	NA	NA	NA	3312.72	
MW-2	11/28/11	3362.11	ND	49.37	ND	NA	NA	NA	3312.74	Sampled
MW-2	12/27/11	3362.11	ND	49.41	ND	NA	NA	NA	3312.70	
MW-2	01/18/12	3362.11	ND	49.39	ND	NA	NA	NA	3312.72	
MW-2	02/02/12	3362.11	ND	49.32	ND	NA	NA	NA	3312.79	
MW-2	02/15/12	3362.11	ND	49.37	ND	NA	NA	NA	3312.74	
MW-2	02/22/12	3362.11	ND	49.29	ND	NA	NA	NA	3312.82	Sampled
MW-2	04/26/12	3362.11	ND	49.31	ND	NA	NA	NA	3312.80	
MW-2	05/22/12	3362.11	ND	49.28	ND	NA	NA	NA	3312.83	Sampled
MW-2	07/18/12	3362.11	ND	49.43	ND	NA	NA	NA	3312.68	
MW-2	09/11/12	3362.11	ND	49.46	ND	NA	NA	NA	3312.65	
MW-2	11/26/12	3362.11	ND	49.56	ND	NA	NA	NA	3312.55	
MW-3	03/28/06	3362.02	ND	49.05	ND	NA	NA	NA	3312.97	
MW-3	03/29/06	3362.02	ND	49.00	ND	NA	NA	NA	3313.02	Sampled

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-3	04/13/06	3362.02	ND	49.03	ND	NA	NA	NA	3312.99	
MW-3	04/25/06	3362.02	ND	49.10	ND	NA	NA	NA	3312.92	
MW-3	05/03/06	3362.02	ND	48.92	ND	NA	NA	NA	3313.10	
MW-3	05/11/06	3362.02	ND	49.07	ND	NA	NA	NA	3312.95	
MW-3	05/23/06	3362.02	ND	48.90	ND	NA	NA	NA	3313.12	
MW-3	06/07/06	3362.02	ND	48.95	ND	NA	NA	NA	3313.07	
MW-3	06/15/06	3362.02	ND	48.95	ND	NA	NA	NA	3313.07	
MW-3	06/29/06	3362.02	ND	48.98	ND	NA	NA	NA	3313.04	
MW-3	07/11/06	3362.02	ND	48.92	ND	NA	NA	NA	3313.10	
MW-3	07/25/06	3362.02	ND	48.97	ND	NA	NA	NA	3313.05	
MW-3	08/09/06	3362.02	ND	48.90	ND	NA	NA	NA	3313.12	
MW-3	08/22/06	3362.02	ND	49.02	ND	NA	NA	NA	3313.00	
MW-3	09/12/06	3362.02	ND	48.93	ND	NA	NA	NA	3313.09	Sampled
MW-3	09/19/06	3362.02	ND	48.93	ND	NA	NA	NA	3313.09	
MW-3	10/03/06	3362.02	ND	48.91	ND	NA	NA	NA	3313.11	
MW-3	10/17/06	3362.02	ND	48.92	ND	NA	NA	NA	3313.10	
MW-3	10/31/06	3362.02	ND	48.96	ND	NA	NA	NA	3313.06	
MW-3	11/15/06	3362.02	ND	48.88	ND	NA	NA	NA	3313.14	
MW-3	12/06/06	3362.13	ND	48.89	ND	NA	NA	NA	3313.24	Sampled
MW-3	12/13/06	3362.13	ND	49.40	ND	NA	NA	NA	3312.73	
MW-3	12/27/06	3362.13	ND	48.73	ND	NA	NA	NA	3313.40	
MW-3	01/03/07	3362.13	ND	48.86	ND	NA	NA	NA	3313.27	
MW-3	01/09/07	3362.13	ND	48.88	ND	NA	NA	NA	3313.25	
MW-3	01/18/07	3362.13	ND	48.77	ND	NA	NA	NA	3313.36	
MW-3	01/22/07	3362.13	ND	48.20	ND	NA	NA	NA	3313.93	
MW-3	02/01/07	3362.13	ND	48.64	ND	NA	NA	NA	3313.49	
MW-3	02/07/07	3362.13	ND	48.78	ND	NA	NA	NA	3313.35	
MW-3	02/14/07	3362.13	ND	48.77	ND	NA	NA	NA	3313.36	
MW-3	02/21/07	3362.13	ND	48.46	ND	NA	NA	NA	3313.67	
MW-3	02/28/07	3362.13	ND	48.64	ND	NA	NA	NA	3313.49	Sampled
MW-3	03/07/07	3362.13	ND	48.70	ND	NA	NA	NA	3313.43	
MW-3	04/03/07	3362.13	ND	48.68	ND	NA	NA	NA	3313.45	
MW-3	05/03/07	3362.13	ND	48.56	ND	NA	NA	NA	3313.57	
MW-3	05/30/07	3362.13	ND	48.62	ND	NA	NA	NA	3313.51	Sampled
MW-3	06/06/07	3362.13	ND	48.53	ND	NA	NA	NA	3313.60	
MW-3	07/05/07	3362.13	ND	48.50	ND	NA	NA	NA	3313.63	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-3	07/31/07	3362.13	ND	48.53	ND	NA	NA	NA	3313.60	
MW-3	09/06/07	3362.13	ND	48.52	ND	NA	NA	NA	3313.61	Sampled
MW-3	09/10/07	3362.13	ND	48.58	ND	NA	NA	NA	3313.55	
MW-3	11/13/07	3362.13	ND	48.58	ND	NA	NA	NA	3313.55	Sampled
MW-3	12/27/07	3362.13	ND	48.52	ND	NA	NA	NA	3313.61	
MW-3	01/09/08	3362.13	ND	48.51	ND	NA	NA	NA	3313.62	
MW-3	02/06/08	3362.13	ND	48.58	ND	NA	NA	NA	3313.55	
MW-3	02/27/08	3362.13	ND	48.68	ND	NA	NA	NA	3313.45	Sampled
MW-3	04/02/08	3362.13	ND	48.50	ND	NA	NA	NA	3313.63	
MW-3	05/28/08	3362.13	ND	48.67	ND	NA	NA	NA	3313.46	Sampled
MW-3	06/18/08	3362.13	ND	48.71	ND	NA	NA	NA	3313.42	
MW-3	07/07/08	3362.13	ND	48.70	ND	NA	NA	NA	3313.43	
MW-3	08/18/08	3362.13	ND	48.74	ND	NA	NA	NA	3313.39	Sampled
MW-3	10/29/08	3362.13	ND	48.75	ND	NA	NA	NA	3313.38	
MW-3	11/19/08	3362.13	ND	48.83	ND	NA	NA	NA	3313.30	Sampled
MW-3	12/21/08	3362.13	ND	48.85	ND	NA	NA	NA	3313.28	
MW-3	01/07/09	3362.13	ND	48.75	ND	NA	NA	NA	3313.38	
MW-3	02/04/09	3362.13	ND	48.81	ND	NA	NA	NA	3313.32	
MW-3	02/17/09	3362.13	ND	48.78	ND	NA	NA	NA	3313.35	Sampled
MW-3	03/04/09	3362.13	ND	48.76	ND	NA	NA	NA	3313.37	
MW-3	04/08/09	3362.13	ND	48.81	ND	NA	NA	NA	3313.32	
MW-3	05/06/09	3362.13	ND	48.82	ND	NA	NA	NA	3313.31	
MW-3	05/19/09	3362.13	ND	48.88	ND	NA	NA	NA	3313.25	Sampled
MW-3	06/03/09	3362.13	ND	48.91	ND	NA	NA	NA	3313.22	
MW-3	07/15/09	3362.13	ND	48.94	ND	NA	NA	NA	3313.19	
MW-3	08/05/09	3362.13	ND	48.95	ND	NA	NA	NA	3313.18	
MW-3	08/26/09	3362.13	ND	48.97	ND	NA	NA	NA	3313.16	Sampled
MW-3	09/02/09	3362.13	ND	48.94	ND	NA	NA	NA	3313.19	
MW-3	10/07/09	3362.13	ND	48.97	ND	NA	NA	NA	3313.16	
MW-3	11/04/09	3362.13	ND	49.02	ND	NA	NA	NA	3313.11	
MW-3	11/18/09	3362.13	ND	48.98	ND	NA	NA	NA	3313.15	Sampled
MW-3	12/02/09	3362.13	ND	49.03	ND	NA	NA	NA	3313.10	
MW-3	01/06/10	3362.13	ND	48.96	ND	NA	NA	NA	3313.17	
MW-3	02/11/10	3362.13	ND	49.00	ND	NA	NA	NA	3313.13	Sampled
MW-3	03/10/10	3362.13	ND	48.86	ND	NA	NA	NA	3313.27	
MW-3	04/07/10	3362.13	ND	48.90	ND	NA	NA	NA	3313.23	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-3	05/05/10	3362.13	ND	48.91	ND	NA	NA	NA	3313.22	
MW-3	05/11/10	3362.13	ND	48.81	ND	NA	NA	NA	3313.32	
MW-3	06/02/10	3362.13	ND	48.80	ND	NA	NA	NA	3313.33	
MW-3	07/07/10	3362.13	ND	48.81	ND	NA	NA	NA	3313.32	
MW-3	08/03/10	3362.13	ND	48.82	ND	NA	NA	NA	3313.31	
MW-3	08/26/10	3362.13	ND	48.82	ND	NA	NA	NA	3313.31	Sampled
MW-3	09/01/10	3362.13	ND	48.79	ND	NA	NA	NA	3313.34	
MW-3	10/13/10	3362.13	ND	48.91	ND	NA	NA	NA	3313.22	
MW-3	11/18/10	3362.13	ND	48.85	ND	NA	NA	NA	3313.28	Sampled
MW-3	11/23/10	3362.13	ND	48.85	ND	NA	NA	NA	3313.28	
MW-3	12/08/10	3362.13	ND	48.88	ND	NA	NA	NA	3313.25	
MW-3	01/12/11	3362.13	ND	48.86	ND	NA	NA	NA	3313.27	
MW-3	02/08/11	3362.13	ND	48.72	ND	NA	NA	NA	3313.41	
MW-3	02/23/11	3362.13	ND	48.74	ND	NA	NA	NA	3313.39	Sampled
MW-3	03/08/11	3362.13	ND	48.73	ND	NA	NA	NA	3313.40	
MW-3	04/13/11	3362.13	ND	48.68	ND	NA	NA	NA	3313.45	
MW-3	06/01/11	3362.13	ND	48.79	ND	NA	NA	NA	3313.34	Sampled
MW-3	07/27/11	3362.13	ND	48.80	ND	NA	NA	NA	3313.33	
MW-3	08/30/11	3362.13	ND	48.83	ND	NA	NA	NA	3313.30	Sampled
MW-3	09/14/11	3362.13	ND	48.92	ND	NA	NA	NA	3313.21	
MW-3	10/12/11	3362.13	ND	48.98	ND	NA	NA	NA	3313.15	
MW-3	11/28/11	3362.13	ND	48.93	ND	NA	NA	NA	3313.20	Sampled
MW-3	12/27/11	3362.13	ND	48.95	ND	NA	NA	NA	3313.18	
MW-3	01/18/12	3362.13	ND	48.93	ND	NA	NA	NA	3313.20	
MW-3	02/02/12	3362.13	ND	48.87	ND	NA	NA	NA	3313.26	
MW-3	02/15/12	3362.13	ND	48.91	ND	NA	NA	NA	3313.22	
MW-3	02/22/12	3362.13	ND	48.82	ND	NA	NA	NA	3313.31	Sampled
MW-3	04/26/12	3362.13	ND	48.85	ND	NA	NA	NA	3313.28	
MW-3	05/22/12	3362.13	ND	48.78	ND	NA	NA	NA	3313.35	Sampled
MW-3	07/18/12	3362.13	ND	48.98	ND	NA	NA	NA	3313.15	
MW-3	09/11/12	3362.13	ND	49.02	ND	NA	NA	NA	3313.11	
MW-3	11/26/12	3362.13	ND	49.09	ND	NA	NA	NA	3313.04	
MW-4	12/06/06	3362.49	ND	48.87	ND	NA	NA	NA	3313.62	Sampled
MW-4	12/13/06	3362.49	ND	48.90	ND	NA	NA	NA	3313.59	
MW-4	12/27/06	3362.49	ND	48.72	ND	NA	NA	NA	3313.77	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-4	01/03/07	3362.49	ND	48.82	ND	NA	NA	NA	3313.67	
MW-4	01/09/07	3362.49	ND	48.86	ND	NA	NA	NA	3313.63	
MW-4	01/18/07	3362.49	ND	48.76	ND	NA	NA	NA	3313.73	
MW-4	01/22/07	3362.49	ND	48.68	ND	NA	NA	NA	3313.81	
MW-4	02/01/07	3362.49	ND	48.63	ND	NA	NA	NA	3313.86	
MW-4	02/07/07	3362.49	ND	48.75	ND	NA	NA	NA	3313.74	
MW-4	02/14/07	3362.49	ND	48.74	ND	NA	NA	NA	3313.75	
MW-4	02/21/07	3362.49	ND	48.46	ND	NA	NA	NA	3314.03	
MW-4	02/28/07	3362.49	ND	48.61	ND	NA	NA	NA	3313.88	Sampled
MW-4	03/07/07	3362.49	ND	48.70	ND	NA	NA	NA	3313.79	
MW-4	04/03/07	3362.49	ND	48.66	ND	NA	NA	NA	3313.83	
MW-4	05/03/07	3362.49	ND	48.53	ND	NA	NA	NA	3313.96	
MW-4	05/30/07	3362.49	ND	48.60	ND	NA	NA	NA	3313.89	Sampled
MW-4	06/06/07	3362.49	ND	48.52	ND	NA	NA	NA	3313.97	
MW-4	07/05/07	3362.49	ND	48.48	ND	NA	NA	NA	3314.01	
MW-4	07/31/07	3362.49	ND	48.51	ND	NA	NA	NA	3313.98	
MW-4	09/06/07	3362.49	ND	48.50	ND	NA	NA	NA	3313.99	Sampled
MW-4	09/10/07	3362.49	ND	48.55	ND	NA	NA	NA	3313.94	
MW-4	11/13/07	3362.49	ND	48.61	ND	NA	NA	NA	3313.88	Sampled
MW-4	12/27/07	3362.49	ND	48.57	ND	NA	NA	NA	3313.92	
MW-4	01/09/08	3362.49	ND	48.51	ND	NA	NA	NA	3313.98	
MW-4	02/06/08	3362.49	ND	48.55	ND	NA	NA	NA	3313.94	
MW-4	02/27/08	3362.49	ND	48.69	ND	NA	NA	NA	3313.80	Sampled
MW-4	04/02/08	3362.49	ND	48.49	ND	NA	NA	NA	3314.00	
MW-4	05/28/08	3362.49	ND	48.66	ND	NA	NA	NA	3313.83	Sampled
MW-4	06/18/08	3362.49	ND	48.71	ND	NA	NA	NA	3313.78	
MW-4	07/07/08	3362.49	ND	48.68	ND	NA	NA	NA	3313.81	
MW-4	08/18/08	3362.49	ND	48.73	ND	NA	NA	NA	3313.76	Sampled
MW-4	10/29/08	3362.49	ND	48.80	ND	NA	NA	NA	3313.69	
MW-4	11/19/08	3362.49	ND	48.81	ND	NA	NA	NA	3313.68	Sampled
MW-4	12/21/08	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	
MW-4	01/07/09	3362.49	ND	48.74	ND	NA	NA	NA	3313.75	
MW-4	02/04/09	3362.49	ND	48.81	ND	NA	NA	NA	3313.68	
MW-4	02/17/09	3362.49	ND	48.78	ND	NA	NA	NA	3313.71	Sampled
MW-4	03/04/09	3362.49	ND	48.74	ND	NA	NA	NA	3313.75	
MW-4	04/08/09	3362.49	ND	48.81	ND	NA	NA	NA	3313.68	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-4	05/06/09	3362.49	ND	48.81	ND	NA	NA	NA	3313.68	
MW-4	05/19/09	3362.49	ND	48.88	ND	NA	NA	NA	3313.61	Sampled
MW-4	06/03/09	3362.49	ND	48.90	ND	NA	NA	NA	3313.59	
MW-4	07/15/09	3362.49	ND	48.94	ND	NA	NA	NA	3313.55	
MW-4	08/05/09	3362.49	ND	48.93	ND	NA	NA	NA	3313.56	
MW-4	08/26/09	3362.49	ND	48.96	ND	NA	NA	NA	3313.53	Sampled
MW-4	09/02/09	3362.49	ND	48.97	ND	NA	NA	NA	3313.52	
MW-4	10/07/09	3362.49	ND	48.95	ND	NA	NA	NA	3313.54	
MW-4	11/04/09	3362.49	ND	48.94	ND	NA	NA	NA	3313.55	
MW-4	11/18/09	3362.49	ND	48.97	ND	NA	NA	NA	3313.52	Sampled
MW-4	12/02/09	3362.49	ND	48.93	ND	NA	NA	NA	3313.56	
MW-4	01/06/10	3362.49	ND	48.95	ND	NA	NA	NA	3313.54	
MW-4	02/11/10	3362.49	ND	48.96	ND	NA	NA	NA	3313.53	Sampled
MW-4	03/10/10	3362.49	ND	48.87	ND	NA	NA	NA	3313.62	
MW-4	04/07/10	3362.49	ND	48.88	ND	NA	NA	NA	3313.61	
MW-4	05/05/10	3362.49	ND	48.90	ND	NA	NA	NA	3313.59	
MW-4	05/11/10	3362.49	ND	48.80	ND	NA	NA	NA	3313.69	Sampled
MW-4	06/02/10	3362.49	ND	48.78	ND	NA	NA	NA	3313.71	
MW-4	07/07/10	3362.49	ND	48.80	ND	NA	NA	NA	3313.69	
MW-4	08/03/10	3362.49	ND	48.78	ND	NA	NA	NA	3313.71	
MW-4	08/26/10	3362.49	ND	48.75	ND	NA	NA	NA	3313.74	Sampled
MW-4	09/01/10	3362.49	ND	48.74	ND	NA	NA	NA	3313.75	
MW-4	10/13/10	3362.49	ND	48.88	ND	NA	NA	NA	3313.61	
MW-4	11/18/10	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	Sampled
MW-4	11/23/10	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	
MW-4	12/08/10	3362.49	ND	48.86	ND	NA	NA	NA	3313.63	
MW-4	01/12/11	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	
MW-4	02/08/11	3362.49	ND	48.72	ND	NA	NA	NA	3313.77	
MW-4	02/23/11	3362.49	ND	48.71	ND	NA	NA	NA	3313.78	Sampled
MW-4	03/08/11	3362.49	ND	48.73	ND	NA	NA	NA	3313.76	
MW-4	04/13/11	3362.49	ND	48.71	ND	NA	NA	NA	3313.78	
MW-4	06/01/11	3362.49	ND	48.77	ND	NA	NA	NA	3313.72	Sampled
MW-4	07/27/11	3362.49	ND	48.78	ND	NA	NA	NA	3313.71	
MW-4	08/30/11	3362.49	ND	48.82	ND	NA	NA	NA	3313.67	Sampled
MW-4	09/14/11	3362.49	ND	48.89	ND	NA	NA	NA	3313.60	
MW-4	10/12/11	3362.49	ND	48.92	ND	NA	NA	NA	3313.57	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-4	11/28/11	3362.49	ND	48.92	ND	NA	NA	NA	3313.57	Sampled
MW-4	12/27/11	3362.49	ND	48.93	ND	NA	NA	NA	3313.56	
MW-4	01/18/12	3362.49	ND	48.91	ND	NA	NA	NA	3313.58	
MW-4	02/02/12	3362.49	ND	48.85	ND	NA	NA	NA	3313.64	
MW-4	02/15/12	3362.49	ND	48.91	ND	NA	NA	NA	3313.58	
MW-4	02/22/12	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	Sampled
MW-4	04/26/12	3362.49	ND	48.83	ND	NA	NA	NA	3313.66	
MW-4	05/22/12	3362.49	ND	48.80	ND	NA	NA	NA	3313.69	Sampled
MW-4	07/18/12	3362.49	ND	48.96	ND	NA	NA	NA	3313.53	
MW-4	09/11/12	3362.49	ND	49.02	ND	NA	NA	NA	3313.47	
MW-4	11/26/12	3362.49	ND	49.10	ND	NA	NA	NA	3313.39	
MW-5	12/06/06	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	Sampled
MW-5	12/13/06	3363.67	ND	51.66	ND	NA	NA	NA	3312.01	
MW-5	12/27/06	3363.67	ND	51.50	ND	NA	NA	NA	3312.17	
MW-5	01/03/07	3363.67	ND	51.61	ND	NA	NA	NA	3312.06	
MW-5	01/09/07	3363.67	ND	51.63	ND	NA	NA	NA	3312.04	
MW-5	01/18/07	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	
MW-5	02/01/07	3363.67	ND	51.40	ND	NA	NA	NA	3312.27	
MW-5	02/07/07	3363.67	ND	51.56	ND	NA	NA	NA	3312.11	
MW-5	02/14/07	3363.67	ND	51.53	ND	NA	NA	NA	3312.14	
MW-5	02/21/07	3363.67	ND	51.51	ND	NA	NA	NA	3312.16	
MW-5	02/28/07	3363.67	ND	51.41	ND	NA	NA	NA	3312.26	Sampled
MW-5	03/07/07	3363.67	ND	51.50	ND	NA	NA	NA	3312.17	
MW-5	04/03/07	3363.67	ND	51.46	ND	NA	NA	NA	3312.21	
MW-5	05/03/07	3363.67	ND	51.39	ND	NA	NA	NA	3312.28	
MW-5	05/30/07	3363.67	ND	51.43	ND	NA	NA	NA	3312.24	Sampled
MW-5	06/06/07	3363.67	ND	51.30	ND	NA	NA	NA	3312.37	
MW-5	07/05/07	3363.67	ND	51.27	ND	NA	NA	NA	3312.40	
MW-5	07/31/07	3363.67	ND	51.31	ND	NA	NA	NA	3312.36	
MW-5	09/06/07	3363.67	ND	51.28	ND	NA	NA	NA	3312.39	Sampled
MW-5	09/10/07	3363.67	ND	51.30	ND	NA	NA	NA	3312.37	
MW-5	11/13/07	3363.67	ND	51.38	ND	NA	NA	NA	3312.29	Sampled
MW-5	12/27/07	3363.67	ND	51.33	ND	NA	NA	NA	3312.34	
MW-5	01/09/08	3363.67	ND	51.21	ND	NA	NA	NA	3312.46	
MW-5	02/06/08	3363.67	ND	51.28	ND	NA	NA	NA	3312.39	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-5	02/27/08	3363.67	ND	51.42	ND	NA	NA	NA	3312.25	Sampled
MW-5	04/02/08	3363.67	ND	51.20	ND	NA	NA	NA	3312.47	
MW-5	05/28/08	3363.67	ND	51.38	ND	NA	NA	NA	3312.29	Sampled
MW-5	06/18/08	3363.67	ND	51.44	ND	NA	NA	NA	3312.23	
MW-5	07/07/08	3363.67	ND	51.38	ND	NA	NA	NA	3312.29	
MW-5	08/18/08	3363.67	ND	51.42	ND	NA	NA	NA	3312.25	Sampled
MW-5	10/29/08	3363.67	ND	51.48	ND	NA	NA	NA	3312.19	
MW-5	11/19/08	3363.67	ND	51.49	ND	NA	NA	NA	3312.18	Sampled
MW-5	12/21/08	3363.67	ND	51.49	ND	NA	NA	NA	3312.18	
MW-5	01/07/09	3363.67	ND	51.41	ND	NA	NA	NA	3312.26	
MW-5	02/04/09	3363.67	ND	51.49	ND	NA	NA	NA	3312.18	
MW-5	02/17/09	3363.67	ND	51.44	ND	NA	NA	NA	3312.23	Sampled
MW-5	03/04/09	3363.67	ND	51.42	ND	NA	NA	NA	3312.25	
MW-5	04/08/09	3363.67	ND	51.46	ND	NA	NA	NA	3312.21	
MW-5	05/06/09	3363.67	ND	51.53	ND	NA	NA	NA	3312.14	
MW-5	05/19/09	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	Sampled
MW-5	06/03/09	3363.67	ND	51.59	ND	NA	NA	NA	3312.08	
MW-5	07/15/09	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	
MW-5	08/05/09	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	
MW-5	08/26/09	3363.67	ND	51.66	ND	NA	NA	NA	3312.01	Sampled
MW-5	09/02/09	3363.67	ND	51.68	ND	NA	NA	NA	3311.99	
MW-5	10/07/09	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	
MW-5	11/04/09	3363.67	ND	51.73	ND	NA	NA	NA	3311.94	
MW-5	11/18/09	3363.67	ND	51.67	ND	NA	NA	NA	3312.00	Sampled
MW-5	12/02/09	3363.67	ND	51.74	ND	NA	NA	NA	3311.93	
MW-5	01/06/10	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	
MW-5	02/11/10	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	Sampled
MW-5	03/10/10	3363.67	ND	51.55	ND	NA	NA	NA	3312.12	
MW-5	04/07/10	3363.67	ND	51.63	ND	NA	NA	NA	3312.04	
MW-5	05/05/10	3363.67	ND	51.60	ND	NA	NA	NA	3312.07	
MW-5	05/11/10	3363.67	ND	51.49	ND	NA	NA	NA	3312.18	Sampled
MW-5	06/02/10	3363.67	ND	51.51	ND	NA	NA	NA	3312.16	
MW-5	07/07/10	3363.67	ND	51.58	ND	NA	NA	NA	3312.09	
MW-5	08/03/10	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	
MW-5	08/26/10	3363.67	ND	51.53	ND	NA	NA	NA	3312.14	Sampled
MW-5	09/01/10	3363.67	ND	51.50	ND	NA	NA	NA	3312.17	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-5	10/13/10	3363.67	ND	51.66	ND	NA	NA	NA	3312.01	
MW-5	11/18/10	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	Sampled
MW-5	11/23/10	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	
MW-5	12/08/10	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	
MW-5	01/12/11	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	
MW-5	02/08/11	3363.67	ND	51.40	ND	NA	NA	NA	3312.27	
MW-5	02/23/11	3363.67	ND	51.43	ND	NA	NA	NA	3312.24	Sampled
MW-5	03/08/11	3363.67	ND	51.45	ND	NA	NA	NA	3312.22	
MW-5	04/13/11	3363.67	ND	51.44	ND	NA	NA	NA	3312.23	
MW-5	06/01/11	3363.67	ND	51.50	ND	NA	NA	NA	3312.17	Sampled
MW-5	07/27/11	3363.67	ND	51.54	ND	NA	NA	NA	3312.13	
MW-5	08/30/11	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	Sampled
MW-5	09/14/11	3363.67	ND	51.66	ND	NA	NA	NA	3312.01	
MW-5	10/12/11	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	
MW-5	11/28/11	3363.67	ND	51.63	ND	NA	NA	NA	3312.04	Sampled
MW-5	12/27/11	3363.67	ND	51.64	ND	NA	NA	NA	3312.03	
MW-5	01/18/12	3363.67	ND	51.65	ND	NA	NA	NA	3312.02	
MW-5	02/02/12	3363.67	ND	51.57	ND	NA	NA	NA	3312.10	
MW-5	02/15/12	3363.67	ND	51.63	ND	NA	NA	NA	3312.04	
MW-5	02/22/12	3363.67	ND	51.55	ND	NA	NA	NA	3312.12	Sampled
MW-5	04/26/12	3363.67	ND	51.58	ND	NA	NA	NA	3312.09	
MW-5	05/22/12	3363.67	ND	48.78	ND	NA	NA	NA	3314.89	Sampled
MW-5	07/18/12	3363.67	ND	51.73	ND	NA	NA	NA	3311.94	
MW-5	09/11/12	3363.67	ND	51.75	ND	NA	NA	NA	3311.92	
MW-5	11/26/12	3363.67	ND	51.82	ND	NA	NA	NA	3311.85	
MW-6	12/06/06	3362.6	ND	50.48	ND	NA	NA	NA	3312.12	Sampled
MW-6	12/13/06	3362.6	ND	50.50	ND	NA	NA	NA	3312.10	
MW-6	12/27/06	3362.6	ND	50.33	ND	NA	NA	NA	3312.27	
MW-6	01/03/07	3362.6	ND	50.46	ND	NA	NA	NA	3312.14	
MW-6	01/09/07	3362.6	ND	50.48	ND	NA	NA	NA	3312.12	
MW-6	01/18/07	3362.6	ND	50.38	ND	NA	NA	NA	3312.22	
MW-6	01/22/07	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	
MW-6	02/01/07	3362.6	ND	50.23	ND	NA	NA	NA	3312.37	
MW-6	02/07/07	3362.6	ND	50.36	ND	NA	NA	NA	3312.24	
MW-6	02/14/07	3362.6	ND	50.36	ND	NA	NA	NA	3312.24	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-5	02/21/07	3362.6	ND	50.37	ND	NA	NA	NA	3312.23	
MW-5	02/28/07	3362.6	ND	50.21	ND	NA	NA	NA	3312.39	Sampled
MW-5	03/07/07	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	
MW-5	04/03/07	3362.6	ND	50.28	ND	NA	NA	NA	3312.32	
MW-5	05/03/07	3362.6	ND	50.15	ND	NA	NA	NA	3312.45	
MW-5	05/30/07	3362.6	ND	50.22	ND	NA	NA	NA	3312.38	Sampled
MW-5	06/06/07	3362.6	ND	50.13	ND	NA	NA	NA	3312.47	
MW-5	07/05/07	3362.6	ND	50.15	ND	NA	NA	NA	3312.45	
MW-5	07/31/07	3362.6	ND	50.20	ND	NA	NA	NA	3312.40	
MW-5	09/06/07	3362.6	ND	50.10	ND	NA	NA	NA	3312.50	Sampled
MW-5	09/10/07	3362.6	ND	50.12	ND	NA	NA	NA	3312.48	
MW-5	11/13/07	3362.6	ND	50.20	ND	NA	NA	NA	3312.40	Sampled
MW-5	12/27/07	3362.6	ND	50.14	ND	NA	NA	NA	3312.46	
MW-5	01/09/08	3362.6	ND	50.11	ND	NA	NA	NA	3312.49	
MW-5	02/06/08	3362.6	ND	50.13	ND	NA	NA	NA	3312.47	
MW-5	02/27/08	3362.6	ND	50.25	ND	NA	NA	NA	3312.35	Sampled
MW-5	04/02/08	3362.6	ND	50.10	ND	NA	NA	NA	3312.50	
MW-5	05/28/08	3362.6	ND	50.25	ND	NA	NA	NA	3312.35	Sampled
MW-5	06/18/08	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	
MW-5	07/07/08	3362.6	ND	50.27	ND	NA	NA	NA	3312.33	
MW-5	08/18/08	3362.6	ND	50.26	ND	NA	NA	NA	3312.34	Sampled
MW-5	10/29/08	3362.6	ND	50.31	ND	NA	NA	NA	3312.29	
MW-5	11/19/08	3362.6	ND	50.36	ND	NA	NA	NA	3312.24	Sampled
MW-5	12/21/08	3362.6	ND	50.42	ND	NA	NA	NA	3312.18	
MW-5	01/07/09	3362.6	ND	50.27	ND	NA	NA	NA	3312.33	
MW-5	02/04/09	3362.6	ND	50.36	ND	NA	NA	NA	3312.24	
MW-5	02/17/09	3362.6	ND	50.35	ND	NA	NA	NA	3312.25	Sampled
MW-5	03/04/09	3362.6	ND	50.29	ND	NA	NA	NA	3312.31	
MW-5	04/08/09	3362.6	ND	50.34	ND	NA	NA	NA	3312.26	
MW-5	05/06/09	3362.6	ND	50.39	ND	NA	NA	NA	3312.21	
MW-5	05/19/09	3362.6	ND	50.41	ND	NA	NA	NA	3312.19	Sampled
MW-5	06/03/09	3362.6	ND	50.45	ND	NA	NA	NA	3312.15	
MW-5	07/15/09	3362.6	ND	50.47	ND	NA	NA	NA	3312.13	
MW-5	08/05/09	3362.6	ND	50.49	ND	NA	NA	NA	3312.11	
MW-5	08/26/09	3362.6	ND	50.56	ND	NA	NA	NA	3312.04	Sampled
MW-5	09/02/09	3362.6	ND	50.45	ND	NA	NA	NA	3312.15	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-6	10/07/09	3362.6	ND	50.53	ND	NA	NA	NA	3312.07	
MW-6	11/04/09	3362.6	ND	50.57	ND	NA	NA	NA	3312.03	
MW-6	11/18/09	3362.6	ND	50.54	ND	NA	NA	NA	3312.06	Sampled
MW-6	12/02/09	3362.6	ND	50.58	ND	NA	NA	NA	3312.02	
MW-6	01/06/10	3362.6	ND	50.51	ND	NA	NA	NA	3312.09	
MW-6	02/11/10	3362.6	ND	50.50	ND	NA	NA	NA	3312.10	Sampled
MW-6	03/10/10	3362.6	ND	50.42	ND	NA	NA	NA	3312.18	
MW-6	04/07/10	3362.6	ND	50.50	ND	NA	NA	NA	3312.10	
MW-6	05/05/10	3362.6	ND	50.48	ND	NA	NA	NA	3312.12	
MW-6	05/11/10	3362.6	ND	50.38	ND	NA	NA	NA	3312.22	Sampled
MW-6	06/02/10	3362.6	ND	50.39	ND	NA	NA	NA	3312.21	
MW-6	07/07/10	3362.6	ND	50.46	ND	NA	NA	NA	3312.14	
MW-6	08/03/10	3362.6	ND	50.38	ND	NA	NA	NA	3312.22	
MW-6	08/26/10	3362.6	ND	50.35	ND	NA	NA	NA	3312.25	Sampled
MW-6	09/01/10	3362.6	ND	50.37	ND	NA	NA	NA	3312.23	
MW-6	10/13/10	3362.6	ND	50.46	ND	NA	NA	NA	3312.14	
MW-6	11/18/10	3362.6	ND	50.42	ND	NA	NA	NA	3312.18	Sampled
MW-6	11/23/10	3362.6	ND	50.38	ND	NA	NA	NA	3312.22	
MW-6	12/08/10	3362.6	ND	50.42	ND	NA	NA	NA	3312.18	
MW-6	01/12/11	3362.6	ND	50.42	ND	NA	NA	NA	3312.18	
MW-6	02/08/11	3362.6	ND	50.26	ND	NA	NA	NA	3312.34	
MW-6	02/23/11	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	Sampled
MW-6	03/08/11	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	
MW-6	04/13/11	3362.6	ND	50.30	ND	NA	NA	NA	3312.30	
MW-6	06/01/11	3362.6	ND	50.34	ND	NA	NA	NA	3312.26	Sampled
MW-6	07/27/11	3362.6	ND	50.35	ND	NA	NA	NA	3312.25	
MW-6	08/30/11	3362.6	ND	50.45	ND	NA	NA	NA	3312.15	Sampled
MW-6	09/14/11	3362.6	ND	50.51	ND	NA	NA	NA	3312.09	
MW-6	10/12/11	3362.6	ND	50.49	ND	NA	NA	NA	3312.11	
MW-6	11/28/11	3362.6	ND	50.47	ND	NA	NA	NA	3312.13	Sampled
MW-6	12/27/11	3362.6	ND	50.51	ND	NA	NA	NA	3312.09	
MW-6	01/18/12	3362.6	ND	50.53	ND	NA	NA	NA	3312.07	
MW-6	02/02/12	3362.6	ND	50.43	ND	NA	NA	NA	3312.17	
MW-6	02/15/12	3362.6	ND	50.47	ND	NA	NA	NA	3312.13	
MW-6	02/22/12	3362.6	ND	50.39	ND	NA	NA	NA	3312.21	Sampled
MW-6	04/26/12	3362.6	ND	50.41	ND	NA	NA	NA	3312.19	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-6	05/22/12	3362.6	ND	50.38	ND	NA	NA	NA	3312.22	Sampled
MW-6	07/18/12	3362.6	ND	50.57	ND	NA	NA	NA	3312.03	
MW-6	09/11/12	3362.6	ND	50.60	ND	NA	NA	NA	3312.00	
MW-6	11/26/12	3362.6	ND	50.66	ND	NA	NA	NA	3311.94	Sampled
MW-7	12/06/06	3362.75	ND	50.62	ND	NA	NA	NA	3312.13	Sampled
MW-7	12/13/06	3362.75	ND	50.64	ND	NA	NA	NA	3312.11	
MW-7	12/27/06	3362.75	ND	50.54	ND	NA	NA	NA	3312.21	
MW-7	01/03/07	3362.75	ND	50.63	ND	NA	NA	NA	3312.12	
MW-7	01/09/07	3362.75	ND	50.66	ND	NA	NA	NA	3312.09	
MW-7	01/18/07	3362.75	ND	50.57	ND	NA	NA	NA	3312.18	
MW-7	01/22/07	3362.75	ND	50.46	ND	NA	NA	NA	3312.29	
MW-7	02/01/07	3362.75	ND	50.41	ND	NA	NA	NA	3312.34	
MW-7	02/07/07	3362.75	ND	50.58	ND	NA	NA	NA	3312.17	
MW-7	02/14/07	3362.75	ND	50.56	ND	NA	NA	NA	3312.19	
MW-7	02/21/07	3362.75	ND	50.54	ND	NA	NA	NA	3312.21	
MW-7	02/28/07	3362.75	ND	50.41	ND	NA	NA	NA	3312.34	Sampled
MW-7	03/07/07	3362.75	ND	50.50	ND	NA	NA	NA	3312.25	
MW-7	04/03/07	3362.75	ND	50.49	ND	NA	NA	NA	3312.26	
MW-7	05/30/07	3362.75	ND	50.43	ND	NA	NA	NA	3312.32	Sampled
MW-7	06/06/07	3362.75	ND	50.32	ND	NA	NA	NA	3312.43	
MW-7	07/05/07	3362.75	ND	50.31	ND	NA	NA	NA	3312.44	
MW-7	07/31/07	3362.75	ND	50.34	ND	NA	NA	NA	3312.41	
MW-7	09/06/07	3362.75	ND	50.28	ND	NA	NA	NA	3312.47	Sampled
MW-7	09/10/07	3362.75	ND	50.33	ND	NA	NA	NA	3312.42	
MW-7	11/13/07	3362.75	ND	50.36	ND	NA	NA	NA	3312.39	Sampled
MW-7	12/27/07	3362.75	ND	50.32	ND	NA	NA	NA	3312.43	
MW-7	01/09/08	3362.75	ND	50.25	ND	NA	NA	NA	3312.50	
MW-7	02/06/08	3362.75	ND	50.20	ND	NA	NA	NA	3312.55	
MW-7	02/27/08	3362.75	ND	50.45	ND	NA	NA	NA	3312.30	Sampled
MW-7	04/02/08	3362.75	ND	50.28	ND	NA	NA	NA	3312.47	
MW-7	05/28/08	3362.75	ND	50.42	ND	NA	NA	NA	3312.33	Sampled
MW-7	06/18/08	3362.75	ND	50.48	ND	NA	NA	NA	3312.27	
MW-7	07/07/08	3362.75	ND	50.42	ND	NA	NA	NA	3312.33	
MW-7	08/18/08	3362.75	ND	50.47	ND	NA	NA	NA	3312.28	Sampled
MW-7	10/29/08	3362.75	ND	50.53	ND	NA	NA	NA	3312.22	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-7	11/19/08	3362.75	ND	50.53	ND	NA	NA	NA	3312.22	Sampled
MW-7	12/21/08	3362.75	ND	50.57	ND	NA	NA	NA	3312.18	
MW-7	01/07/09	3362.75	ND	50.45	ND	NA	NA	NA	3312.30	
MW-7	02/04/09	3362.75	ND	50.53	ND	NA	NA	NA	3312.22	
MW-7	02/17/09	3362.75	ND	50.51	ND	NA	NA	NA	3312.24	Sampled
MW-7	03/04/09	3362.75	ND	50.47	ND	NA	NA	NA	3312.28	
MW-7	04/08/09	3362.75	ND	50.52	ND	NA	NA	NA	3312.23	
MW-7	05/06/09	3362.75	ND	50.57	ND	NA	NA	NA	3312.18	
MW-7	05/19/09	3362.75	ND	50.60	ND	NA	NA	NA	3312.15	Sampled
MW-7	06/03/09	3362.75	ND	50.65	ND	NA	NA	NA	3312.10	
MW-7	07/15/09	3362.75	ND	50.66	ND	NA	NA	NA	3312.09	
MW-7	08/05/09	3362.75	ND	50.68	ND	NA	NA	NA	3312.07	
MW-7	08/26/09	3362.75	ND	50.70	ND	NA	NA	NA	3312.05	Sampled
MW-7	09/02/09	3362.75	ND	50.69	ND	NA	NA	NA	3312.06	
MW-7	10/07/09	3362.75	ND	50.69	ND	NA	NA	NA	3312.06	
MW-7	11/04/09	3362.75	ND	50.75	ND	NA	NA	NA	3312.00	
MW-7	11/18/09	3362.75	ND	50.70	ND	NA	NA	NA	3312.05	Sampled
MW-7	12/02/09	3362.75	ND	50.77	ND	NA	NA	NA	3311.98	
MW-7	01/06/10	3362.75	ND	50.69	ND	NA	NA	NA	3312.06	
MW-7	02/11/10	3362.75	ND	50.67	ND	NA	NA	NA	3312.08	Sampled
MW-7	03/10/10	3362.75	ND	50.61	ND	NA	NA	NA	3312.14	
MW-7	04/07/10	3362.75	ND	DNG	ND	NA	NA	NA	DNG	
MW-7	05/05/10	3362.75	ND	50.65	ND	NA	NA	NA	3312.10	
MW-7	05/11/10	3362.75	ND	50.54	ND	NA	NA	NA	3312.21	Sampled
MW-7	06/02/10	3362.75	ND	50.56	ND	NA	NA	NA	3312.19	
MW-7	07/07/10	3362.75	ND	50.58	ND	NA	NA	NA	3312.17	
MW-7	08/03/10	3362.75	ND	50.56	ND	NA	NA	NA	3312.19	
MW-7	08/26/10	3362.75	ND	50.58	ND	NA	NA	NA	3312.17	Sampled
MW-7	09/01/10	3362.75	ND	50.51	ND	NA	NA	NA	3312.24	
MW-7	10/13/10	3362.75	ND	50.66	ND	NA	NA	NA	3312.09	
MW-7	11/18/10	3362.75	ND	50.56	ND	NA	NA	NA	3312.19	Sampled
MW-7	11/23/10	3362.75	ND	50.57	ND	NA	NA	NA	3312.18	
MW-7	12/08/10	3362.75	ND	50.63	ND	NA	NA	NA	3312.12	
MW-7	01/12/11	3362.75	ND	50.60	ND	NA	NA	NA	3312.15	
MW-7	02/08/11	3362.75	ND	50.45	ND	NA	NA	NA	3312.30	
MW-7	02/23/11	3362.75	ND	50.49	ND	NA	NA	NA	3312.26	Sampled

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
MW-7	03/08/11	3362.75	ND	50.49	ND	NA	NA	NA	3312.26	
MW-7	04/13/11	3362.75	ND	50.47	ND	NA	NA	NA	3312.28	
MW-7	06/01/11	3362.75	ND	50.53	ND	NA	NA	NA	3312.22	Sampled
MW-7	07/27/11	3362.75	ND	50.55	ND	NA	NA	NA	3312.20	
MW-7	08/30/11	3362.75	ND	50.59	ND	NA	NA	NA	3312.16	Sampled
MW-7	09/14/11	3362.75	ND	50.68	ND	NA	NA	NA	3312.07	
MW-7	10/12/11	3362.75	ND	50.66	ND	NA	NA	NA	3312.09	
MW-7	11/28/11	3362.75	ND	50.66	ND	NA	NA	NA	3312.09	Sampled
MW-7	12/27/11	3362.75	ND	50.68	ND	NA	NA	NA	3312.07	
MW-7	01/18/12	3362.75	ND	50.69	ND	NA	NA	NA	3312.06	
MW-7	02/02/12	3362.75	ND	50.58	ND	NA	NA	NA	3312.17	
MW-7	02/15/12	3362.75	ND	50.68	ND	NA	NA	NA	3312.07	
MW-7	02/22/12	3362.75	ND	50.59	ND	NA	NA	NA	3312.16	Sampled
MW-7	04/26/12	3362.75	ND	50.60	ND	NA	NA	NA	3312.15	
MW-7	05/22/12	3362.75	ND	50.53	ND	NA	NA	NA	3312.22	Sampled
MW-7	07/18/12	3362.75	ND	50.76	ND	NA	NA	NA	3311.99	
MW-7	09/11/12	3362.75	ND	50.78	ND	NA	NA	NA	3311.97	
MW-7	11/26/12	3362.75	ND	50.84	ND	NA	NA	NA	3311.91	
RW-1	04/13/06	3348.04	35.62	35.65	0.03	NA	NA	NA	3312.42	After Bailing
RW-1	04/25/06	3348.04	35.68	36.01	0.33	Hand Bailed	0.50	0.00	3312.31	
RW-1	04/25/06	3348.04	36.15	36.19	0.04	NA	NA	NA	3311.88	
RW-1	05/03/06	3348.04	35.56	35.59	0.03	Hand Bailed	0.25	0.00	3312.48	
RW-1	05/03/06	3348.04	35.51	35.53	0.02	NA	NA	NA	3312.53	
RW-1	05/11/06	3348.04	ND	35.64	ND	Hand Bailed			3312.40	
RW-1	05/11/06	3348.04	ND	35.78	ND	NA	NA	NA	3312.26	
RW-1	05/24/06	3348.04	35.80	35.84	0.04	Hand Bailed	0.05	0.00	3312.23	
RW-1	05/24/06	3348.04	ND	36.81	ND	NA	NA	NA	3311.23	
RW-1	06/07/06	3348.04	35.81	35.82	0.01	Hand Bailed	0.01	0.00	3312.23	
RW-1	06/07/06	3348.04	ND	36.90	ND	NA	NA	NA	3311.14	
RW-1	06/15/06	3348.04	ND	35.68	ND	NA	NA	NA	3312.36	
RW-1	06/29/06	3348.04	35.70	36.00	0.30	Hand Bailed	0.25	0.00	3312.30	
RW-1	06/29/06	3348.04	ND	36.25	ND	NA	NA	NA	3311.79	
RW-1	07/11/06	3348.04	35.84	35.89	0.05	NA	NA	NA	3312.19	
RW-1	07/25/06	3348.04	35.89	36.02	0.13	NA	NA	NA	3312.13	
RW-1	08/09/06	3348.04	35.90	36.10	0.20	NA	NA	NA	3312.11	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	08/22/06	3348.04	35.60	36.00	0.40	Hand Bailed	0.75	9.25	3312.38	
RW-1	08/22/06	3348.04	36.70	36.74	0.04	NA	NA	NA	3311.33	
RW-1	09/12/06	3348.04	35.70	36.33	0.63	NA	NA	NA	3312.25	
RW-1	09/19/06	3348.04	35.64	36.18	0.54	Hand Bailed	0.25	4.75	3312.32	
RW-1	09/19/06	3348.04	36.15	36.20	0.05	NA	NA	NA	3311.88	
RW-1	10/03/06	3348.04	35.48	35.49	0.01	Hand Bailed	0.10	9.90	3312.56	
RW-1	10/03/06	3348.04	ND	35.59	ND	NA	NA	NA	3312.45	Installed Sock
RW-1	10/17/06	3348.04	35.66	35.70	0.04	Hand Bailed	0.10	4.90	3312.37	
RW-1	10/17/06	3348.04	ND	35.83	ND	NA	NA	NA	3312.21	Sock
RW-1	10/31/06	3348.04	35.60	35.64	0.04	Hand Bailed	0.10	4.90	3312.43	
RW-1	10/31/06	3348.04	ND	35.72	ND	NA	NA	NA	3312.32	Sock
RW-1	11/15/06	3348.04	50.56	50.68	0.12	Hand Bailed	0.10	9.90	3297.46	
RW-1	11/15/06	3348.04	ND	50.65	ND	NA	NA	NA	3297.39	
RW-1	12/06/06	3360.67	50.52	50.74	0.22		0.10	9.90	3310.12	Installed Sock
RW-1	12/13/06	3360.67	50.48	50.79	0.31	Hand Bailed	0.25	4.75	3310.14	
RW-1	12/13/06	3360.67	ND	51.90	ND	NA	NA	NA	3308.77	
RW-1	12/20/06	3360.67	ND	50.76	ND	NA	NA	NA	3309.91	Removed sock
RW-1	12/27/06	3360.67	50.44	50.48	0.04	Hand Bailed	0.10	4.90	3310.22	
RW-1	12/27/06	3360.67	ND	51.62	ND	NA	NA	NA	3309.05	No Sock
RW-1	01/03/07	3360.67	50.50	50.58	0.08	Hand Bailed	0.25	0.75	3310.16	
RW-1	01/03/07	3360.67	ND	52.13	ND	NA	NA	NA	3308.54	Installed Sock
RW-1	01/09/07	3360.67	ND	50.73	ND	Hand Bailed	0.10	5.00	3309.94	
RW-1	01/09/07	3360.67	ND	52.22	ND	NA	NA	NA	3308.45	Flipped Sock
RW-1	01/18/07	3360.67	ND	50.65	ND	Hand Bailed	0.10	9.90	3310.02	
RW-1	01/18/07	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	Sock
RW-1	01/22/07	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	
RW-1	02/01/07	3360.67	ND	50.62	ND	Hand Bailed	0.10	9.90	3310.05	
RW-1	02/01/07	3360.67	ND	51.99	ND	NA	NA	NA	3308.68	New sock
RW-1	02/07/07	3360.67	ND	50.77	ND	Hand Bailed	0.10	9.90	3309.90	
RW-1	02/07/07	3360.67	ND	51.76	ND	NA	NA	NA	3308.91	Flipped Sock
RW-1	02/14/07	3360.67	ND	50.75	ND	Hand Bailed	0.10	9.90	3309.92	
RW-1	02/14/07	3360.67	ND	51.82	ND	NA	NA	NA	3308.85	Sock
RW-1	02/21/07	3360.67	ND	50.77	ND	Hand Bailed	0.10	9.90	3309.90	
RW-1	02/21/07	3360.67	ND	51.96	ND	NA	NA	NA	3308.71	Sock
RW-1	02/28/07	3360.67	ND	51.96	ND	NA	NA	NA	3308.71	
RW-1	03/07/07	3360.67	ND	50.77	ND	NA	NA	NA	3309.90	New sock

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
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Vacuum to Jal Mainline #5
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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	03/14/07	3360.67	ND	50.62	ND	NA	NA	NA	3310.05	Sock
RW-1	03/21/07	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	Sock
RW-1	03/28/07	3360.67	ND	50.63	ND	NA	NA	NA	3310.04	New sock
RW-1	04/03/07	3360.67	ND	50.38	ND	NA	NA	NA	3310.29	Sock
RW-1	04/10/07	3360.67	ND	50.43	ND	NA	NA	NA	3310.24	Sock
RW-1	04/18/07	3360.67	ND	50.35	ND	NA	NA	NA	3310.32	Sock
RW-1	04/24/07	3360.67	ND	50.50	ND	NA	NA	NA	3310.17	Sock
RW-1	05/03/07	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	Sock
RW-1	05/11/07	3360.67	ND	50.33	ND	NA	NA	NA	3310.34	Sock
RW-1	05/16/07	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	Sock
RW-1	05/23/07	3360.67	ND	50.23	ND	NA	NA	NA	3310.44	Flipped Sock
RW-1	06/06/07	3360.67	ND	50.34	ND	NA	NA	NA	3310.33	Sock
RW-1	06/13/07	3360.67	ND	50.37	ND	NA	NA	NA	3310.30	Sock
RW-1	06/19/07	3360.67	ND	50.24	ND	NA	NA	NA	3310.43	Sock
RW-1	06/27/07	3360.67	ND	50.31	ND	NA	NA	NA	3310.36	Sock
RW-1	07/05/07	3360.67	50.18	50.20	0.02	NA	NA	NA	3310.49	New sock
RW-1	07/11/07	3360.67	ND	50.28	ND	NA	NA	NA	3310.39	Sock
RW-1	07/19/07	3360.67	ND	50.45	ND	NA	NA	NA	3310.22	Sock
RW-1	07/24/07	3360.67	ND	50.36	ND	NA	NA	NA	3310.31	Sock
RW-1	07/31/07	3360.67	ND	50.41	ND	NA	NA	NA	3310.26	Sock
RW-1	08/09/07	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	08/16/07	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	Sock
RW-1	08/22/07	3360.67	ND	50.63	ND	NA	NA	NA	3310.04	Sock
RW-1	08/28/07	3360.67	ND	50.78	ND	NA	NA	NA	3309.89	Sock
RW-1	09/06/07	3360.67	ND	50.78	ND	NA	NA	NA	3309.89	Sock
RW-1	09/13/07	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	Sock
RW-1	09/18/07	3360.67	ND	50.54	ND	NA	NA	NA	3310.13	Sock
RW-1	09/26/07	3360.67	ND	50.58	ND	NA	NA	NA	3310.09	Sock
RW-1	10/04/07	3360.67	ND	50.63	ND	NA	NA	NA	3310.04	Sock
RW-1	10/10/07	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	Sock
RW-1	10/17/07	3360.67	ND	50.62	ND	NA	NA	NA	3310.05	Sock
RW-1	10/24/07	3360.67	ND	50.61	ND	NA	NA	NA	3310.06	Sock
RW-1	10/31/07	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	11/07/07	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	Sock
RW-1	11/13/07	3360.67	ND	50.62	ND	NA	NA	NA	3310.05	Sock
RW-1	11/20/07	3360.67	ND	50.64	ND	NA	NA	NA	3310.03	Sock

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Plains Marketing, L.P.
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Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	11/27/07	3360.67	ND	50.63	ND	NA	NA	NA	3310.04	Sock
RW-1	12/05/07	3360.67	ND	49.90	ND	NA	NA	NA	3310.77	New sock
RW-1	12/12/07	3360.67	ND	49.89	ND	NA	NA	NA	3310.78	Sock
RW-1	12/18/07	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	12/27/07	3360.67	ND	50.47	ND	NA	NA	NA	3310.20	New sock
RW-1	01/03/08	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	Sock
RW-1	01/09/08	3360.67	ND	50.50	ND	NA	NA	NA	3310.17	Sock
RW-1	01/17/08	3360.67	ND	50.50	ND	NA	NA	NA	3310.17	Sock
RW-1	01/23/08	3360.67	ND	50.44	ND	NA	NA	NA	3310.23	Sock
RW-1	01/30/08	3360.67	ND	50.56	ND	NA	NA	NA	3310.11	Sock
RW-1	02/06/08	3360.67	ND	50.56	ND	NA	NA	NA	3310.11	Sock
RW-1	02/13/08	3360.67	ND	50.54	ND	NA	NA	NA	3310.13	Sock
RW-1	02/18/08	3360.67	ND	50.34	ND	Hand Bailed	0.00	20.00	3310.33	
RW-1	02/18/08	3360.67	ND	53.12	ND	NA	NA	NA	3307.55	Sock
RW-1	02/27/08	3360.67	ND	50.37	ND	NA	NA	NA	3310.30	Sock
RW-1	03/04/08	3360.67	ND	50.41	ND	NA	NA	NA	3310.26	Sock
RW-1	03/12/08	3360.67	ND	50.43	ND	NA	NA	NA	3310.24	Sock
RW-1	03/19/08	3360.67	ND	50.45	ND	NA	NA	NA	3310.22	Sock
RW-1	03/26/08	3360.67	ND	50.45	ND	NA	NA	NA	3310.22	Sock
RW-1	04/02/08	3360.67	ND	50.50	ND	NA	NA	NA	3310.17	Sock
RW-1	04/09/08	3360.67	ND	50.50	ND	NA	NA	NA	3310.17	Sock
RW-1	04/16/08	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	04/24/08	3360.67	ND	50.70	ND	NA	NA	NA	3309.97	Sock
RW-1	04/30/08	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	Sock
RW-1	05/07/08	3360.67	ND	50.62	ND	NA	NA	NA	3310.05	Sock
RW-1	05/14/08	3360.67	ND	50.68	ND	NA	NA	NA	3309.99	Sock
RW-1	05/22/08	3360.67	ND	50.70	ND	NA	NA	NA	3309.97	Sock
RW-1	05/28/08	3360.67	ND	50.70	ND	NA	NA	NA	3309.97	Flipped Sock
RW-1	06/04/08	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	Sock
RW-1	06/11/08	3360.67	ND	50.80	ND	NA	NA	NA	3309.87	Sock
RW-1	06/18/08	3360.67	ND	50.84	ND	NA	NA	NA	3309.83	Sock
RW-1	06/26/08	3360.67	ND	50.90	ND	NA	NA	NA	3309.77	Sock
RW-1	07/02/08	3360.67	ND	50.91	ND	NA	NA	NA	3309.76	Sock
RW-1	07/07/08	3360.67	ND	50.73	ND	NA	NA	NA	3309.94	New sock
RW-1	07/16/08	3360.67	ND	50.77	ND	NA	NA	NA	3309.90	Sock
RW-1	07/22/08	3360.67	ND	50.81	ND	NA	NA	NA	3309.86	Sock

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	07/29/08	3360.67	ND	50.85	ND	NA	NA	NA	3309.82	Sock
RW-1	08/06/08	3360.67	ND	50.82	ND	NA	NA	NA	3309.85	Sock
RW-1	08/13/08	3360.67	ND	50.80	ND	NA	NA	NA	3309.87	New sock
RW-1	08/18/08	3360.67	ND	DNG	ND	NA	NA	NA	DNG	Sock
RW-1	08/27/08	3360.67	ND	50.87	ND	NA	NA	NA	3309.80	Sock
RW-1	09/02/08	3360.67	ND	50.91	ND	NA	NA	NA	3309.76	Sock
RW-1	09/09/08	3360.67	ND	50.95	ND	NA	NA	NA	3309.72	Sock
RW-1	09/16/08	3360.67	ND	50.42	ND	NA	NA	NA	3310.25	Sock
RW-1	09/24/08	3360.67	ND	50.79	ND	NA	NA	NA	3309.88	Sock
RW-1	10/01/08	3360.67	ND	50.65	ND	NA	NA	NA	3310.02	Sock
RW-1	10/08/08	3360.67	ND	50.92	ND	NA	NA	NA	3309.75	Sock
RW-1	10/15/08	3360.67	50.70	50.73	0.03		0.50	14.50	3309.97	Sock
RW-1	10/22/08	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	10/29/08	3360.67	ND	50.55	ND	NA	NA	NA	3310.12	Sock
RW-1	11/05/08	3360.67	ND	50.56	ND	NA	NA	NA	3310.11	Sock
RW-1	11/12/08	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	Sock
RW-1	11/19/08	3360.67	ND	50.64	ND	NA	NA	NA	3310.03	Sock
RW-1	11/26/08	3360.67	ND	50.56	ND	Pumped	0.00	10.00	3310.11	
RW-1	11/26/08	3360.67	ND	51.13	ND	NA	NA	NA	3309.54	
RW-1	12/03/08	3360.67	ND	50.64	ND	Pumped	0.00	10.00	3310.03	
RW-1	12/03/08	3360.67	ND	51.27	ND	NA	NA	NA	3309.40	
RW-1	12/10/08	3360.67	ND	50.73	ND	Pumped	0.00	9.00	3309.94	
RW-1	12/10/08	3360.67	ND	50.72	ND	NA	NA	NA	3309.95	
RW-1	12/17/08	3360.67	ND	50.79	ND	Pumped	0.00	10.00	3309.88	
RW-1	12/17/08	3360.67	ND	50.83	ND	NA	NA	NA	3309.84	
RW-1	12/21/08	3360.67	ND	50.96	ND	NA	NA	NA	3309.71	Sock
RW-1	12/31/08	3360.67	ND	50.62	ND		0.00	10.00	3310.05	Sock
RW-1	12/31/08	3360.67	ND	50.60	ND	NA	NA	NA	3310.07	
RW-1	01/07/09	3360.67	ND	50.54	ND	NA	NA	NA	3310.13	Sock
RW-1	01/15/09	3360.67	ND	50.58	ND		0.00	10.00	3310.09	Sock
RW-1	01/15/09	3360.67	ND	51.77	ND	NA	NA	NA	3308.90	Sock
RW-1	01/22/09	3360.67	ND	50.59	ND		0.00	10.00	3310.08	New Sock
RW-1	01/22/09	3360.67	ND	51.37	ND	NA	NA	NA	3309.30	
RW-1	01/28/09	3360.67	ND	50.48	ND		0.00	10.00	3310.19	Flipped Sock
RW-1	01/28/09	3360.67	ND	52.33	ND	NA	NA	NA	3308.34	
RW-1	02/04/09	3360.67	ND	50.62	ND	Hand Bailed	0.00	10.00	3310.05	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	02/04/09	3360.67	ND	52.01	ND	NA	NA	NA	3308.66	
RW-1	02/11/09	3360.67	ND	50.55	ND	Hand Bailed	0.00	20.00	3310.12	
RW-1	02/11/09	3360.67	ND	50.56	ND	NA	NA	NA	3310.11	
RW-1	02/17/09	3360.67	ND	50.46	ND	Pumped	0.00	10.00	3310.21	
RW-1	02/17/09	3360.67	ND	50.44	ND	NA	NA	NA	3310.23	
RW-1	02/25/09	3360.67	ND	50.54	ND	Pumped	0.00	20.00	3310.13	Flipped Sock
RW-1	02/25/09	3360.67	ND	50.49	ND	NA	NA	NA	3310.18	
RW-1	03/04/09	3360.67	ND	50.54	ND		0.00	15.00	3310.13	New Sock
RW-1	03/04/09	3360.67	ND	52.27	ND	NA	NA	NA	3308.40	
RW-1	03/11/09	3360.67	ND	50.63	ND		0.00	10.00	3310.04	Flipped Sock
RW-1	03/11/09	3360.67	ND	50.83	ND	NA	NA	NA	3309.84	
RW-1	03/18/09	3360.67	ND	50.47	ND		0.00	10.00	3310.20	New Sock
RW-1	03/18/09	3360.67	ND	50.95	ND	NA	NA	NA	3309.72	
RW-1	03/25/09	3360.67	ND	50.42	ND		0.00	10.00	3310.25	Flipped Sock
RW-1	03/25/09	3360.67	ND	51.29	ND	NA	NA	NA	3309.38	
RW-1	04/01/09	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	New Sock
RW-1	04/08/09	3360.67	ND	50.48	ND	NA	NA	NA	3310.19	
RW-1	04/08/09	3360.67	ND	51.25	ND	NA	NA	NA	3309.42	
RW-1	04/15/09	3360.67	ND	50.85	ND	NA	NA	NA	3309.82	
RW-1	04/22/09	3360.67	ND	50.64	ND	NA	NA	NA	3310.03	
RW-1	04/29/09	3360.67	ND	50.52	ND	NA	NA	NA	3310.15	
RW-1	05/06/09	3360.67	ND	50.63	ND	NA	NA	NA	3310.04	
RW-1	05/06/09	3360.67	ND	52.44	ND	Pumped	0.00	10.00	3308.23	
RW-1	05/14/09	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	
RW-1	05/19/09	3360.67	ND	50.56	ND	Pumped	0.00	22.00	3310.11	
RW-1	05/27/09	3360.67	ND	50.57	ND	NA	NA	NA	3310.10	
RW-1	05/27/09	3360.67	ND	52.35	ND	Pumped	0.00	10.00	3308.32	
RW-1	06/03/09	3360.67	ND	50.19	ND	NA	NA	NA	3310.48	
RW-1	06/03/09	3360.67	ND	50.36	ND	Pumped	0.00	15.00	3310.31	
RW-1	06/11/09	3360.67	ND	50.56	ND	NA	NA	NA	3310.11	
RW-1	06/11/09	3360.67	ND	52.03	ND	Pumped	0.00	10.00	3308.64	
RW-1	06/17/09	3360.67	ND	50.68	ND	NA	NA	NA	3309.99	
RW-1	06/23/09	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	
RW-1	07/01/09	3360.67	ND	50.37	ND	NA	NA	NA	3310.30	Flipped Sock
RW-1	07/07/09	3360.67	ND	51.00	ND	NA	NA	NA	3309.67	
RW-1	07/15/09	3360.67	ND	51.00	ND	NA	NA	NA	3309.67	New Sock

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	07/29/09	3360.67	ND	50.80	ND	NA	NA	NA	3309.87	
RW-1	08/05/09	3360.67	ND	50.73	ND	NA	NA	NA	3309.94	Flipped Sock
RW-1	08/12/09	3360.67	ND	50.80	ND	NA	NA	NA	3309.87	
RW-1	08/19/09	3360.67	ND	50.80	ND	NA	NA	NA	3309.87	New Sock
RW-1	08/26/09	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	
RW-1	09/02/09	3360.67	ND	50.79	ND	NA	NA	NA	3309.88	
RW-1	09/09/09	3360.67	ND	50.82	ND	NA	NA	NA	3309.85	
RW-1	09/16/09	3360.67	ND	50.96	ND	NA	NA	NA	3309.71	
RW-1	09/23/09	3360.67	ND	50.96	ND	NA	NA	NA	3309.71	New Sock
RW-1	09/30/09	3360.67	ND	50.77	ND	Pumped	0.00	10.00	3309.90	
RW-1	09/30/09	3360.67	ND	54.20	ND	NA	NA	NA	3306.47	
RW-1	10/07/09	3360.67	ND	50.87	ND	NA	NA	NA	3309.80	
RW-1	10/14/09	3360.67	ND	50.93	ND	NA	NA	NA	3309.74	
RW-1	10/21/09	3360.67	ND	50.75	ND	NA	NA	NA	3309.92	
RW-1	10/28/09	3360.67	ND	50.32	ND	Pumped	0.00	20.00	3310.35	
RW-1	10/28/09	3360.67	ND	50.35	ND	NA	NA	NA	3310.32	
RW-1	11/04/09	3360.67	50.75	50.79	0.04	Pumped	0.00	10.00	3309.91	
RW-1	11/04/09	3360.67	ND	51.97	ND	NA	NA	NA	3308.70	
RW-1	11/11/09	3360.67	50.75	50.81	0.06	Pumped	0.25	9.75	3309.91	
RW-1	11/11/09	3360.67	ND	52.19	ND	NA	NA	NA	3308.48	
RW-1	11/18/09	3360.67	50.69	50.75	0.06	Pumped	0.10	19.90	3309.97	
RW-1	11/18/09	3360.67	ND	51.95	ND	NA	NA	NA	3308.72	
RW-1	11/25/09	3360.67	50.76	50.83	0.07	Pumped	0.10	9.90	3309.90	
RW-1	11/25/09	3360.67	ND	51.75	ND	NA	NA	NA	3308.92	
RW-1	12/02/09	3360.67	50.74	50.80	0.06	Pumped	0.10	9.90	3309.92	
RW-1	12/02/09	3360.67	ND	53.15	ND	NA	NA	NA	3307.52	
RW-1	12/09/09	3360.67	50.76	50.82	0.06	Pumped	0.10	9.90	3309.90	
RW-1	12/09/09	3360.67	ND	51.85	ND	NA	NA	NA	3308.82	
RW-1	12/16/09	3360.67	50.79	50.85	0.06	Pumped	0.25	9.75	3309.87	
RW-1	12/16/09	3360.67	ND	51.42	ND	NA	NA	NA	3309.25	
RW-1	12/23/09	3360.67	50.68	50.75	0.07	Pumped	0.10	9.90	3309.98	
RW-1	12/23/09	3360.67	ND	52.46	ND	NA	NA	NA	3308.21	
RW-1	12/30/09	3360.67	50.71	50.80	0.09	Pumped	0.10	9.90	3309.95	
RW-1	12/30/09	3360.67	ND	51.80	ND	NA	NA	NA	3308.87	
RW-1	01/06/10	3360.67	50.69	50.76	0.07	Pumped	0.10	9.90	3309.97	
RW-1	01/13/10	3360.67	50.72	50.78	0.06	Pumped	0.10	9.90	3309.94	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	01/20/10	3360.67	50.64	50.69	0.05	Pumped	0.10	9.90	3310.02	
RW-1	01/27/10	3360.67	50.73	50.88	0.15	Pumped	0.10	9.90	3309.92	
RW-1	02/11/10	3360.67	50.67	50.80	0.13	Pumped	0.10	9.90	3309.98	
RW-1	02/17/10	3360.67	50.66	50.73	0.07	Pumped	0.10	9.90	3310.00	
RW-1	02/17/10	3360.67	ND	52.83	ND	NA	NA	NA	3307.84	
RW-1	03/02/10	3360.67	50.66	50.69	0.03	Pumped	0.10	9.90	3310.01	
RW-1	03/10/10	3360.67	50.57	50.64	0.07	Pumped	0.10	9.90	3310.09	
RW-1	03/17/10	3360.67	50.66	50.72	0.06	Pumped	0.10	9.90	3310.00	
RW-1	03/24/10	3360.67	50.60	50.62	0.02	Pumped	0.10	9.90	3310.07	
RW-1	03/31/10	3360.67	50.53	50.56	0.03	NA	NA	NA	3310.14	
RW-1	04/07/10	3360.67	50.60	50.68	0.08	NA	NA	NA	3310.06	
RW-1	04/14/10	3360.67	50.55	50.57	0.02	NA	NA	NA	3310.12	
RW-1	04/21/10	3360.67	50.47	50.61	0.14	Pumped	0.10	9.90	3310.18	
RW-1	04/28/10	3360.67	ND	50.59	ND	NA	NA	NA	3310.08	
RW-1	05/05/10	3360.67	50.55	50.65	0.10	hand	0.10	9.90	3310.11	
RW-1	05/11/10	3360.67	50.48	50.52	0.04	Pumped	0.10	24.90	3310.18	
RW-1	05/19/10	3360.67	50.55	50.59	0.04	Pumped	0.10	9.90	3310.11	
RW-1	05/29/10	3360.67	50.56	50.63	0.07	Pumped	0.10	9.90	3310.10	
RW-1	06/02/10	3360.67	50.52	50.55	0.03	NA	NA	NA	3310.15	
RW-1	06/12/10	3360.67	50.60	50.65	0.05	NA	NA	NA	3310.06	
RW-1	06/15/10	3360.67	50.50	50.60	0.10	NA	NA	NA	3310.16	
RW-1	06/25/10	3360.67	50.56	50.73	0.17	Pumped	<.25	10.00	3310.08	
RW-1	07/07/10	3360.67	50.60	50.66	0.06	NA	NA	NA	3310.06	
RW-1	07/14/10	3360.67	50.58	50.68	0.10	Pumped	0.10	9.90	3310.08	
RW-1	07/21/10	3360.67	50.60	50.65	0.05	NA	NA	NA	3310.06	
RW-1	07/28/10	3360.67	50.59	50.64	0.05	NA	NA	NA	3310.07	
RW-1	08/03/10	3360.67	50.57	50.67	0.10	NA	NA	NA	3310.09	
RW-1	08/11/10	3360.67	50.53	50.69	0.16	NA	NA	NA	3310.12	
RW-1	08/18/10	3360.67	50.55	50.69	0.14	Pumped	0.10	9.90	3310.10	
RW-1	08/18/10	3360.67	54.75	54.79	0.03	NA	NA	NA	3305.91	
RW-1	08/26/10	3360.67	50.60	50.63	0.03	NA	NA	NA	3310.07	
RW-1	09/01/10	3360.67	50.52	50.57	0.05	NA	NA	NA	3310.14	
RW-1	09/08/10	3360.67	50.58	50.64	0.06	Pumped	0.10	9.90	3310.08	
RW-1	09/15/10	3360.67	50.59	50.61	0.02	Pumped	0.10	4.90	3310.08	
RW-1	09/21/10	3360.67	50.54	50.55	0.01	NA	NA	NA	3310.13	
RW-1	10/01/10	3360.67	50.63	50.68	0.05	Pumped	0.10	9.90	3310.03	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	10/06/10	3360.67	50.64	50.65	0.01	NA	NA	NA	3310.03	
RW-1	10/13/10	3360.67	50.64	50.68	0.04	NA	NA	NA	3310.02	
RW-1	10/22/10	3360.67	50.56	50.59	0.03	NA	NA	NA	3310.11	
RW-1	10/27/10	3360.67	50.54	50.58	0.04	NA	NA	NA	3310.12	
RW-1	11/03/10	3360.67	ND	50.61	ND	Pumped	0.10	9.90	3310.06	
RW-1	11/10/10	3360.67	50.47	50.48	0.01	NA	NA	NA	3310.20	
RW-1	11/16/10	3360.67	50.55	50.60	0.05	Pumped	0.10	9.90	3310.11	
RW-1	11/16/10	3360.67	ND	52.14	ND	NA	NA	NA	3308.53	
RW-1	11/23/10	3360.67	50.49	50.52	0.03	NA	NA	NA	3310.18	
RW-1	12/01/10	3360.67	50.45	50.47	0.02	NA	NA	NA	3310.22	
RW-1	12/08/10	3360.67	50.52	50.58	0.06	Pumped	0.10	9.90	3310.14	
RW-1	12/08/10	3360.67	ND	51.94	ND	NA	NA	NA	3308.73	
RW-1	12/15/10	3360.67	50.41	50.43	0.02	Pumped	0.10	9.90	3310.26	
RW-1	12/15/10	3360.67	ND	52.62	ND	NA	NA	NA	3308.05	
RW-1	12/21/10	3360.67	50.49	50.50	0.01	Pumped	0.10	9.90	3310.18	
RW-1	12/21/10	3360.67	ND	52.92	ND	NA	NA	NA	3307.75	
RW-1	01/08/11	3348.04	50.43	50.44	0.01	NA	NA	NA	3297.61	
RW-1	01/12/11	3348.04	50.53	50.57	0.04	NA	NA	NA	3297.50	
RW-1	01/19/11	3348.04	50.40	50.44	0.04		0.10	9.90	3297.63	
RW-1	01/19/11	3348.04	ND	51.61	ND	NA	NA	NA	3296.43	
RW-1	01/25/11	3348.04	50.46	50.47	0.01	NA	NA	NA	3297.58	
RW-1	02/04/11	3348.04	50.43	50.44	0.01	NA	NA	NA	3297.61	
RW-1	02/08/11	3348.04	50.37	50.48	0.11	NA	NA	NA	3297.65	
RW-1	02/16/11	3348.04	50.40	50.48	0.08		0.10	9.90	3297.63	
RW-1	02/16/11	3348.04	ND	51.72	ND	NA	NA	NA	3296.32	
RW-1	02/23/11	3348.04	50.41	50.42	0.01		0.10	9.90	3297.63	
RW-1	02/23/11	3348.04	ND	52.51	ND	NA	NA	NA	3295.53	
RW-1	03/02/11	3348.04	50.43	50.44	0.01		0.10	9.90	3297.61	
RW-1	03/02/11	3348.04	ND	51.53	ND	NA	NA	NA	3296.51	
RW-1	03/08/11	3348.04	50.39	50.40	0.01	Hand Bailed	0.10	4.90	3297.65	
RW-1	03/08/11	3348.04	ND	52.38	ND	NA	NA	NA	3295.66	
RW-1	03/16/11	3348.04	50.40	50.41	0.01	NA	0.10	4.90	3297.64	
RW-1	03/16/11	3348.04	ND	52.10	ND	NA	NA	NA	3295.94	
RW-1	03/23/11	3348.04	50.42	50.43	0.01	NA	0.10	4.90	3297.62	
RW-1	03/23/11	3348.04	ND	51.95	ND	NA	NA	NA	3296.09	
RW-1	03/30/11	3348.04	50.39	50.40	0.01	NA	0.10	9.90	3297.65	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	03/30/11	3348.04	ND	51.34	ND	NA	NA	NA	3296.70	
RW-1	04/08/11	3348.04	50.37	50.38	0.01	Pumped	0.10	9.90	3297.67	
RW-1	04/08/11	3348.04	ND	52.24	ND	NA	NA	NA	3295.80	
RW-1	04/13/11	3348.04	50.35	50.36	0.01	NA	0.10	4.90	3297.69	
RW-1	04/13/11	3348.04	ND	52.04	ND	NA	NA	NA	3296.00	
RW-1	04/20/11	3348.04	50.41	50.43	0.02	Hand Bailed	0.10	4.90	3297.63	
RW-1	04/20/11	3348.04	ND	51.73	ND	NA	NA	NA	3296.31	
RW-1	04/27/11	3348.04	50.42	50.43	0.01	Pumped	0.10	9.90	3297.62	
RW-1	04/27/11	3348.04	ND	52.44	ND	NA	NA	NA	3295.60	
RW-1	05/04/11	3348.04	50.31	50.32	0.01		0.10	9.90	3297.73	
RW-1	05/04/11	3348.04	ND	53.02	ND	NA	NA	NA	3295.02	
RW-1	05/11/11	3348.04	50.34	50.35	0.01		0.10	9.90	3297.70	
RW-1	05/11/11	3348.04	ND	52.30	ND	NA	NA	NA	3295.74	
RW-1	05/19/11	3348.04	50.34	50.35	0.01		0.10	14.90	3297.70	
RW-1	05/19/11	3348.04	ND	52.50	ND	NA	NA	NA	3295.54	
RW-1	05/24/11	3348.04	50.35	50.37	0.02		0.10	9.90	3297.69	
RW-1	05/24/11	3348.04	ND	51.28	ND	NA	NA	NA	3296.76	
RW-1	06/01/11	3348.04	50.53	50.54	0.01	NA	NA	NA	3297.51	Sampled
RW-1	06/08/11	3348.04	50.42	50.43	0.01		0.00	10.00	3297.62	
RW-1	06/08/11	3348.04	ND	50.95	ND	NA	NA	NA	3297.09	
RW-1	06/17/11	3348.04	50.34	50.35	0.01		0.00	10.00	3297.70	
RW-1	06/17/11	3348.04	ND	51.56	ND	NA	NA	NA	3296.48	
RW-1	06/21/11	3348.04	50.37	50.41	0.04		0.10	9.90	3297.66	
RW-1	06/21/11	3348.04	ND	51.35	ND	NA	NA	NA	3296.69	
RW-1	06/29/11	3348.04	50.54	50.58	0.04		0.10	4.90	3297.49	
RW-1	06/29/11	3348.04	ND	51.88	ND	NA	NA	NA	3296.16	
RW-1	07/06/11	3348.04	50.56	50.58	0.02		0.10	4.90	3297.48	
RW-1	07/06/11	3348.04	ND	50.92	ND	NA	NA	NA	3297.12	
RW-1	07/13/11	3348.04	50.55	50.56	0.01		0.10	9.90	3297.49	
RW-1	07/13/11	3348.04	ND	51.85	ND	NA	NA	NA	3296.19	
RW-1	07/20/11	3348.04	50.58	50.59	0.01	NA	NA	NA	3297.46	
RW-1	07/27/11	3348.04	50.55	50.58	0.03		0.10	9.90	3297.49	
RW-1	07/27/11	3348.04	ND	51.99	ND	NA	NA	NA	3296.05	
RW-1	08/03/11	3348.04	50.60	50.65	0.05		0.10	4.90	3297.43	
RW-1	08/03/11	3348.04	ND	51.70	ND	NA	NA	NA	3296.34	
RW-1	08/11/11	3348.04	50.61	50.64	0.03	Hand Bailed	0.10	4.90	3297.43	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	08/11/11	3348.04	ND	51.25	ND	NA	NA	NA	3296.79	
RW-1	08/16/11	3348.04	50.54	50.56	0.02	NA	NA	NA	3297.50	
RW-1	08/24/11	3348.04	50.62	50.64	0.02		0.10	9.90	3297.42	
RW-1	08/24/11	3348.04	ND	51.79	ND	NA	NA	NA	3296.25	
RW-1	08/30/11	3348.04	50.62	50.64	0.02		0.10	4.90	3297.42	
RW-1	08/30/11	3348.04	ND	51.84	ND	NA	NA	NA	3296.20	
RW-1	09/07/11	3348.04	50.66	50.70	0.04		0.10	4.90	3297.37	
RW-1	09/07/11	3348.04	ND	51.16	ND	NA	NA	NA	3296.88	
RW-1	09/14/11	3348.04	50.65	50.67	0.02	NA	NA	NA	3297.39	
RW-1	09/21/11	3348.04	50.62	50.71	0.09		0.10	4.90	3297.41	
RW-1	09/21/11	3348.04	ND	51.13	ND	NA	NA	NA	3296.91	
RW-1	09/28/11	3348.04	50.65	50.70	0.05	Hand Bailed	0.10	4.90	3297.38	
RW-1	09/28/11	3348.04	ND	51.50	ND	NA	NA	NA	3296.54	
RW-1	10/05/11	3348.04	50.64	50.68	0.04	Pumped	0.10	10.00	3297.39	Clear at 2 gal
RW-1	10/05/11	3348.04	ND	52.28	ND	NA	NA	NA	3295.76	
RW-1	10/12/11	3348.04	50.66	50.68	0.02		0.10	9.90	3297.38	
RW-1	10/12/11	3348.04	ND	51.95	ND	NA	NA	NA	3296.09	
RW-1	10/18/11	3348.04	50.73	50.74	0.01		0.10	9.90	3297.31	Clear at 3 gal
RW-1	10/18/11	3348.04	ND	51.96	ND	NA	NA	NA	3296.08	
RW-1	10/28/11	3348.04	50.73	50.76	0.03	NA	NA	NA	3297.31	
RW-1	11/02/11	3348.04	50.68	50.72	0.04		0.10	4.90	3297.35	Clear at 2 gal
RW-1	11/02/11	3348.04	ND	52.04	ND	NA	NA	NA	3296.00	
RW-1	11/09/11	3348.04	50.75	50.77	0.02		0.10	9.90	3297.29	
RW-1	11/09/11	3348.04	ND	51.16	ND	NA	NA	NA	3296.88	
RW-1	11/18/11	3348.04	50.63	50.64	0.01	NA	NA	NA	3297.41	
RW-1	11/23/11	3348.04	50.72	50.76	0.04	NA	NA	NA	3297.31	
RW-1	11/28/11	3348.04	50.63	50.69	0.06	NA	NA	NA	3297.40	
RW-1	12/13/11	3348.04	50.64	50.76	0.12		0.10	4.90	3297.38	
RW-1	12/13/11	3348.04	ND	52.05	ND	NA	NA	NA	3295.99	
RW-1	12/20/11	3348.04	50.69	50.74	0.05		0.10	4.90	3297.34	
RW-1	12/20/11	3348.04	ND	57.20	ND	NA	NA	NA	3290.84	
RW-1	12/27/11	3348.04	50.70	50.74	0.04		0.10	4.90	3297.33	
RW-1	12/27/11	3348.04	ND	51.65	ND	NA	NA	NA	3296.39	
RW-1	01/04/12	3348.04	50.75	50.76	0.01	NA	NA	NA	3297.29	
RW-1	01/13/12	3348.04	50.70	50.75	0.05		0.10	4.90	3297.33	
RW-1	01/13/12	3348.04	ND	51.25	ND	NA	NA	NA	3296.79	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	01/18/12	3348.04	50.68	50.72	0.04	NA	NA	NA	3297.35	
RW-1	01/27/12	3348.04	50.65	50.70	0.05		0.10	4.90	3297.38	
RW-1	01/27/12	3348.04	ND	52.44	ND	NA	NA	NA	3295.60	
RW-1	02/02/12	3348.04	50.62	50.63	0.01	NA	NA	NA	3297.42	
RW-1	02/08/12	3348.04	50.70	50.78	0.08		0.10	4.90	3297.33	
RW-1	02/08/12	3348.04	ND	51.20	ND	NA	NA	NA	3296.84	
RW-1	02/15/12	3348.04	50.63	50.69	0.06		0.10	4.90	3297.40	
RW-1	02/15/12	3348.04	ND	52.73	ND	NA	NA	NA	3295.31	
RW-1	02/22/12	3348.04	49.54	49.62	0.08	NA	NA	NA	3298.49	
RW-1	02/29/12	3348.04	50.61	50.68	0.07		0.10	4.90	3297.42	
RW-1	02/29/12	3348.04	ND	51.60	ND	NA	NA	NA	3296.44	
RW-1	03/06/12	3348.04	50.55	50.60	0.05		0.10	4.90	3297.48	
RW-1	03/06/12	3348.04	ND	52.83	ND	NA	NA	NA	3295.21	
RW-1	03/14/12	3348.04	50.60	50.66	0.06		0.10	4.90	3297.43	
RW-1	03/21/12	3348.04	51.45	51.55	0.10		0.10	4.90	3296.58	
RW-1	03/21/12	3348.04	ND	51.65	ND	NA	NA	NA	3296.39	
RW-1	03/29/12	3348.04	50.54	50.62	0.08		0.10	9.90	3297.49	
RW-1	03/29/12	3348.04	ND	51.32	ND	NA	NA	NA	3296.72	
RW-1	04/03/12	3348.04	50.56	50.70	0.14		0.10	9.90	3297.46	
RW-1	04/03/12	3348.04	ND	51.38	ND	NA	NA	NA	3296.66	
RW-1	04/11/12	3348.04	50.50	50.64	0.14		0.10	9.90	3297.52	
RW-1	04/11/12	3348.04	ND	51.28	ND	NA	NA	NA	3296.76	
RW-1	04/20/12	3348.04	50.25	50.47	0.22		0.10	9.90	3297.76	
RW-1	04/20/12	3348.04	ND	51.89	ND	NA	NA	NA	3296.15	
RW-1	04/26/12	3348.04	50.39	50.80	0.41		0.10	9.90	3297.59	
RW-1	04/26/12	3348.04	ND	51.90	ND	NA	NA	NA	3296.14	
RW-1	05/02/12	3348.04	50.54	50.67	0.13		0.10	9.90	3297.48	
RW-1	05/02/12	3348.04	ND	52.92	ND	NA	NA	NA	3295.12	
RW-1	05/09/12	3348.04	50.58	50.65	0.07		0.10	9.90	3297.45	
RW-1	05/09/12	3348.04	ND	52.50	ND	NA	NA	NA	3295.54	
RW-1	05/22/12	3348.04	50.53	50.68	0.15	NA	NA	NA	3297.49	Sampled
RW-1	05/29/12	3348.04	50.50	50.61	0.11		0.25	9.75	3297.52	
RW-1	05/29/12	3348.04	ND	51.15	ND	NA	NA	NA	3296.89	
RW-1	06/06/12	3348.04	50.55	50.63	0.08		0.10	9.90	3297.48	
RW-1	06/06/12	3348.04	ND	52.85	ND	NA	NA	NA	3295.19	
RW-1	06/13/12	3348.04	50.48	50.65	0.17		0.10	9.90	3297.53	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	06/13/12	3348.04	ND	52.65	ND	NA	NA	NA	3295.39	
RW-1	06/19/12	3348.04	50.44	50.75	0.31		0.10	9.90	3297.55	
RW-1	06/19/12	3348.04	ND	50.95	ND	NA	NA	NA	3297.09	
RW-1	06/27/12	3348.04	50.49	50.55	0.06		0.00	5.00	3297.54	
RW-1	06/27/12	3348.04	ND	51.60	ND	NA	NA	NA	3296.44	
RW-1	07/05/12	3348.04	50.55	50.65	0.10	NA	0.10	10.00	3297.48	
RW-1	07/05/12	3348.04	ND	51.37	ND	NA	NA	NA	3296.67	
RW-1	07/11/12	3348.04	50.55	50.69	0.14	NA	0.10	10.00	3297.47	
RW-1	07/11/12	3348.04	ND	51.97	ND	NA	NA	NA	3296.07	
RW-1	07/18/12	3348.04	50.59	50.76	0.17	NA	NA	10.00	3297.42	
RW-1	07/18/12	3348.04	ND	52.06	ND	NA	NA	NA	3295.98	
RW-1	07/25/12	3348.04	50.56	50.71	0.15	NA	0.125	10.00	3297.46	
RW-1	07/25/12	3348.04	ND	52.00	ND	NA	NA	NA	3296.04	
RW-1	07/31/12	3348.04	50.59	50.70	0.11	NA	0.10	10.00	3297.43	
RW-1	07/31/12	3348.04	ND	50.12	ND	NA	NA	NA	3297.92	
RW-1	08/08/12	3348.04	50.60	50.80	0.20	NA	NA	NA	3297.41	
RW-1	08/13/12	3348.04	50.50	50.62	0.12	NA	0.10	10.00	3297.52	
RW-1	08/13/12	3348.04	ND	51.70	ND	NA	NA	NA	3296.34	
RW-1	09/05/12	3348.04	50.65	50.81	0.16	NA	0.10	10.00	3297.37	
RW-1	09/11/12	3348.04	50.56	50.74	0.18	NA	0.10	10.00	3297.45	
RW-1	09/19/12	3348.04	50.68	50.90	0.22	NA	0.10	10.00	3297.33	
RW-1	09/19/12	3348.04	ND	52.75	ND	NA	NA	NA	3295.29	
RW-1	09/25/12	3348.04	50.64	50.74	0.10	NA	0.10	10.00	3297.39	
RW-1	09/25/12	3348.04	ND	52.68	ND	NA	NA	NA	3295.36	
RW-1	10/03/12	3348.04	50.70	50.82	0.12	NA	0.10	10.00	3297.32	
RW-1	10/03/12	3348.04	ND	52.12	ND	NA	NA	NA	3295.92	
RW-1	10/24/12	3348.04	50.63	50.88	0.25	NA	0.10	10.00	3297.37	
RW-1	10/24/12	3348.04	ND	51.73	ND	NA	NA	NA	3296.31	
RW-1	10/30/12	3348.04	50.68	50.77	0.09	NA	NA	NA	3297.35	
RW-1	10/30/12	3348.04	ND	52.38	ND	NA	NA	NA	3295.66	
RW-1	11/06/12	3348.04	50.71	50.77	0.06	NA	0.10	10.00	3297.32	
RW-1	11/06/12	3348.04	ND	52.50	ND	NA	NA	NA	3295.54	
RW-1	11/13/12	3348.04	50.72	50.84	0.12	NA	0.10	10.00	3297.30	
RW-1	11/13/12	3348.04	ND	52.27	ND	NA	NA	NA	3295.77	
RW-1	11/26/12	3348.04	50.71	50.75	0.04	NA	NA	NA	3297.32	
RW-1	12/05/12	3348.04	50.70	50.78	0.08	NA	NA	NA	3297.33	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-1	12/05/12	3348.04	ND	53.85	ND	NA	NA	NA	3294.19	
RW-1	12/11/12	3348.04	50.70	50.80	0.10	NA	NA	NA	3297.33	
RW-2	03/28/06	3362.00	49.67	49.68	0.01	NA	NA	NA	3312.33	
RW-2	03/29/06	3362.00	ND	49.65	ND	NA	NA	NA	3312.35	
RW-2	04/13/06	3362.00	49.58	50.08	0.50	Hand Bailed	0.50	0.00	3312.35	
RW-2	04/13/06	3362.00	49.58	50.08	0.50	NA	NA	NA	3312.35	
RW-2	04/25/06	3362.00	49.65	49.99	0.34	Hand Bailed	0.60	0.00	3312.30	
RW-2	04/25/06	3362.00	50.00	50.01	0.01	NA	NA	NA	3312.00	
RW-2	05/03/06	3362.00	49.55	49.91	0.36	Hand Bailed	0.50	0.00	3312.40	
RW-2	05/03/06	3362.00	49.56	49.68	0.12	NA	NA	NA	3312.42	
RW-2	05/11/06	3362.00	49.65	49.81	0.16	Hand Bailed	0.25	0.00	3312.33	
RW-2	05/11/06	3362.00	ND	50.32	ND	NA	NA	NA	3311.68	
RW-2	05/24/06	3362.00	49.62	50.08	0.46	Hand Bailed	0.50	0.00	3312.31	
RW-2	05/24/06	3362.00	51.22	51.23	0.01	NA	NA	NA	3310.78	
RW-2	06/07/06	3362.00	49.68	49.95	0.27	Hand Bailed	0.30	0.00	3312.28	
RW-2	06/07/06	3362.00	49.75	49.77	0.02	NA	NA	NA	3312.25	
RW-2	06/15/06	3362.00	49.58	49.80	0.22	NA	NA	NA	3312.39	
RW-2	06/29/06	3362.00	49.51	50.30	0.79	Hand Bailed	0.85	0.00	3312.37	
RW-2	06/29/06	3362.00	ND	49.73	ND	NA	NA	NA	3312.27	
RW-2	07/11/06	3362.00	49.58	49.80	0.22	NA	NA	NA	3312.39	
RW-2	07/25/06	3362.00	49.88	49.97	0.09	NA	NA	NA	3312.11	
RW-2	08/09/06	3362.00	49.65	50.10	0.45	Hand Bailed	0.00	10.00	3312.28	
RW-2	08/22/06	3362.00	49.57	50.34	0.77	Hand Bailed	0.75	9.25	3312.31	
RW-2	08/22/06	3362.00	49.93	49.97	0.04	NA	NA	NA	3312.06	
RW-2	09/12/06	3362.00	50.30	50.70	0.40	NA	NA	NA	3311.64	
RW-2	09/19/06	3362.00	49.54	50.01	0.47	Hand Bailed	0.50	9.50	3312.39	
RW-2	09/19/06	3362.00	49.93	50.00	0.07	NA	NA	NA	3312.06	
RW-2	10/03/06	3362.00	49.50	49.99	0.49	Hand Bailed	0.50	9.50	3312.43	
RW-2	10/03/06	3362.00	50.02	50.03	0.01	NA	NA	NA	3311.98	Installed Sock
RW-2	10/17/06	3362.00	49.50	50.10	0.60	Hand Bailed	0.75	4.25	3312.41	
RW-2	10/17/06	3362.00	50.18	50.19	0.01	NA	NA	NA	3311.82	Removed sock
RW-2	10/31/06	3362.00	49.50	50.75	1.25	Hand Bailed	1.50	3.50	3312.31	
RW-2	10/31/06	3362.00	50.78	50.84	0.06	NA	NA	NA	3311.21	Installed Sock
RW-2	11/15/06	3362.00	49.44	50.30	0.86	Hand Bailed	0.50	9.50	3312.43	
RW-2	11/15/06	3362.00	49.80	49.90	0.10	NA	NA	NA	3312.19	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	12/06/06	3362.00	50.23	51.10	0.87	NA	NA	NA	3311.64	Removed sock
RW-2	12/13/06	3362.00	49.28	50.27	0.99	Hand Bailed	1.25	3.75	3312.57	
RW-2	12/13/06	3362.00	51.10	51.13	0.03	NA	NA	NA	3310.90	No Sock
RW-2	12/20/06	3362.00	49.21	50.76	1.55	Hand Bailed	0.75	9.25	3312.56	
RW-2	12/27/06	3362.00	49.27	50.20	0.93	Hand Bailed	1.00	4.00	3312.59	
RW-2	12/27/06	3362.00	ND	50.18	ND	NA	NA	NA	3311.82	No Sock
RW-2	01/03/07	3362.00	49.29	50.29	1.00	Hand Bailed	0.75	9.25	3312.56	
RW-2	01/03/07	3362.00	ND	50.21	ND	NA	NA	NA	3311.79	No Sock
RW-2	01/09/07	3362.00	49.45	50.23	0.78	Hand Bailed	0.75	4.00	3312.43	
RW-2	01/09/07	3362.00	ND	50.24	ND	NA	NA	NA	3311.76	No Sock
RW-2	01/18/07	3362.00	49.36	50.00	0.64	Hand Bailed	1.50	8.50	3312.54	
RW-2	01/18/07	3362.00	49.95	49.97	0.02	NA	NA	NA	3312.05	No Sock
RW-2	01/22/07	3362.00	49.27	50.07	0.80	Hand Bailed	0.25	9.75	3312.61	
RW-2	01/22/07	3362.00	49.60	49.63	0.03	NA	NA	NA	3312.40	No Sock
RW-2	02/01/07	3362.00	49.28	49.86	0.58	Hand Bailed	0.75	9.25	3312.63	
RW-2	02/01/07	3362.00	49.83	49.85	0.02	NA	NA	NA	3312.17	No Sock
RW-2	02/07/07	3362.00	49.22	49.94	0.72	Hand Bailed	0.75	9.00	3312.67	
RW-2	02/07/07	3362.00	49.83	49.85	0.02	NA	NA	NA	3312.17	No Sock
RW-2	02/14/07	3362.00	49.21	49.96	0.75	Hand Bailed	0.50	9.00	3312.68	
RW-2	02/14/07	3362.00	49.92	49.94	0.02	NA	NA	NA	3312.08	No Sock
RW-2	02/21/07	3362.00	49.18	49.93	0.75	Hand Bailed	0.75	9.00	3312.71	
RW-2	02/28/07	3362.00	ND	49.99	ND	NA	NA	NA	3312.01	No Sock
RW-2	03/07/07	3362.00	49.22	50.38	1.16	Hand Bailed	1.50	6.00	3312.61	
RW-2	03/07/07	3362.00	49.55	49.62	0.07	NA	NA	NA	3312.44	No Sock
RW-2	03/14/07	3362.00	49.22	49.81	0.59	Hand Bailed	0.75	9.00	3312.69	
RW-2	03/14/07	3362.00	49.70	49.73	0.03	NA	NA	NA	3312.30	No Sock
RW-2	03/21/07	3362.00	49.26	49.76	0.50	Hand Bailed	0.50	1.00	3312.67	
RW-2	03/21/07	3362.00	49.67	49.69	0.02	NA	NA	NA	3312.33	No Sock
RW-2	03/28/07	3362.00	49.12	49.96	0.84	Hand Bailed	0.75	0.75	3312.75	
RW-2	03/28/07	3362.00	49.60	49.69	0.09	NA	NA	NA	3312.39	No Sock
RW-2	04/03/07	3362.00	49.22	49.80	0.58	Hand Bailed	0.50	0.50	3312.69	
RW-2	04/03/07	3362.00	49.42	49.46	0.04	NA	NA	NA	3312.57	No Sock
RW-2	04/10/07	3362.00	49.20	49.91	0.71	Hand Bailed	0.50	0.50	3312.69	
RW-2	04/10/07	3362.00	49.37	49.40	0.03	NA	NA	NA	3312.63	No Sock
RW-2	04/18/07	3362.00	49.20	50.03	0.83	Hand Bailed	1.50	8.00	3312.68	
RW-2	04/18/07	3362.00	49.37	49.40	0.03	NA	NA	NA	3312.63	No Sock

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	04/24/07	3362.00	49.02	50.20	1.18	Hand Bailed	1.50	8.00	3312.80	
RW-2	04/24/07	3362.00	49.42	49.51	0.09	NA	NA	NA	3312.57	No Sock
RW-2	05/03/07	3362.00	49.12	49.88	0.76	Hand Bailed	1.00	9.00	3312.77	
RW-2	05/03/07	3362.00	49.50	49.52	0.02	NA	NA	NA	3312.50	No Sock
RW-2	05/11/07	3362.00	49.21	49.68	0.47	Hand Bailed	0.50	9.00	3312.72	
RW-2	05/11/07	3362.00	48.53	48.58	0.05	NA	NA	NA	3313.46	No Sock
RW-2	05/16/07	3362.00	49.24	49.58	0.34	Hand Bailed	0.25	9.50	3312.71	
RW-2	05/16/07	3362.00	ND	49.65	ND	NA	NA	NA	3312.35	No Sock
RW-2	05/23/07	3362.00	49.14	49.56	0.42	Hand Bailed	1.00	9.00	3312.80	
RW-2	05/23/07	3362.00	49.28	49.31	0.03	NA	NA	NA	3312.72	No Sock
RW-2	05/31/07	3362.00	49.10	49.61	0.51		0.50	2.00	3312.82	No Sock
RW-2	06/06/07	3362.00	49.13	49.49	0.36	Hand Bailed	0.50	9.00	3312.82	
RW-2	06/06/07	3362.00	ND	49.34	ND	NA	NA	NA	3312.66	No Sock
RW-2	06/13/07	3362.00	49.15	49.48	0.33	Hand Bailed	0.50	9.00	3312.80	
RW-2	06/13/07	3362.00	ND	49.52	ND	NA	NA	NA	3312.48	No Sock
RW-2	06/19/07	3362.00	49.15	49.66	0.51	Hand Bailed	0.50	9.00	3312.77	
RW-2	06/19/07	3362.00	49.38	49.39	0.01	NA	NA	NA	3312.62	No Sock
RW-2	06/27/07	3362.00	49.31	49.63	0.32	Hand Bailed	0.50	9.00	3312.64	
RW-2	06/27/07	3362.00	ND	49.67	ND	NA	NA	NA	3312.33	No Sock
RW-2	07/05/07	3362.00	49.05	49.70	0.65	Hand Bailed	0.00	10.00	3312.85	
RW-2	07/05/07	3362.00	ND	49.47	ND	NA	NA	NA	3312.53	No Sock
RW-2	07/11/07	3362.00	49.49	49.76	0.27	Hand Bailed	0.50	9.00	3312.47	
RW-2	07/11/07	3362.00	ND	49.52	ND	NA	NA	NA	3312.48	No Sock
RW-2	07/19/07	3362.00	49.05	49.64	0.59	Hand Bailed	0.50	9.00	3312.86	
RW-2	07/19/07	3362.00	49.26	49.30	0.04	NA	NA	NA	3312.73	No Sock
RW-2	07/24/07	3362.00	49.00	49.70	0.70	Hand Bailed	0.75	9.00	3312.90	
RW-2	07/24/07	3362.00	49.52	49.58	0.06	NA	NA	NA	3312.47	No Sock
RW-2	07/31/07	3362.00	49.00	49.70	0.70	Hand Bailed	0.50	9.00	3312.90	
RW-2	07/31/07	3362.00	49.10	49.14	0.04	NA	NA	NA	3312.89	No Sock
RW-2	08/09/07	3362.00	49.21	49.86	0.65	Hand Bailed	0.75	9.00	3312.69	
RW-2	08/09/07	3362.00	ND	49.71	ND	NA	NA	NA	3312.29	No Sock
RW-2	08/15/07	3362.00	49.21	49.86	0.65	Hand Bailed	0.50	9.00	3312.69	
RW-2	08/15/07	3362.00	ND	49.73	ND	NA	NA	NA	3312.27	No Sock
RW-2	08/22/07	3362.00	49.12	49.99	0.87	Hand Bailed	0.75	9.00	3312.75	
RW-2	08/22/07	3362.00	ND	49.88	ND	NA	NA	NA	3312.12	No Sock
RW-2	08/28/07	3362.00	49.34	50.13	0.79	Hand Bailed	0.75	9.00	3312.54	

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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	08/28/07	3362.00	50.00	50.02	0.02	NA	NA	NA	3312.00	No Sock
RW-2	09/06/07	3362.00	49.36	49.88	0.52	Hand Bailed	0.50	9.00	3312.56	
RW-2	09/06/07	3362.00	ND	49.84	ND	NA	NA	NA	3312.16	No Sock
RW-2	09/13/07	3362.00	49.32	49.89	0.57	Hand Bailed	0.75	9.00	3312.59	
RW-2	09/13/07	3362.00	49.90	49.92	0.02	NA	NA	NA	3312.10	No Sock
RW-2	09/18/07	3362.00	49.24	49.81	0.57	Hand Bailed	0.50	9.00	3312.67	
RW-2	09/18/07	3362.00	49.86	49.87	0.01	NA	NA	NA	3312.14	No Sock
RW-2	09/26/07	3362.00	49.29	49.86	0.57	Hand Bailed	0.50	9.00	3312.62	
RW-2	09/26/07	3362.00	ND	49.94	ND	NA	NA	NA	3312.06	No Sock
RW-2	10/04/07	3362.00	49.36	49.90	0.54	Hand Bailed	0.50	9.00	3312.56	
RW-2	10/04/07	3362.00	50.06	50.11	0.05	NA	NA	NA	3311.93	No Sock
RW-2	10/10/07	3362.00	49.10	49.40	0.30	Hand Bailed	0.50	9.00	3312.86	
RW-2	10/10/07	3362.00	49.84	49.86	0.02	NA	NA	NA	3312.16	No Sock
RW-2	10/17/07	3362.00	49.12	49.43	0.31	Hand Bailed	0.50	9.00	3312.83	
RW-2	10/17/07	3362.00	49.80	49.82	0.02	NA	NA	NA	3312.20	No Sock
RW-2	10/24/07	3362.00	49.13	49.93	0.80	Hand Bailed	0.50	50.00	3312.75	
RW-2	10/24/07	3362.00	49.28	49.29	0.01	NA	NA	NA	3312.72	No Sock
RW-2	10/31/07	3362.00	49.15	49.58	0.43	Hand Bailed	0.50	50.00	3312.79	
RW-2	10/31/07	3362.00	49.21	49.22	0.01	NA	NA	NA	3312.79	No Sock
RW-2	11/07/07	3362.00	49.20	49.66	0.46	Hand Bailed	0.50	9.00	3312.73	
RW-2	11/07/07	3362.00	49.26	49.28	0.02	NA	NA	NA	3312.74	No Sock
RW-2	11/13/07	3362.00	ND	49.88	ND	NA	NA	NA	3312.12	No Sock
RW-2	11/20/07	3362.00	49.02	49.91	0.89		1.00	8.00	3312.85	No Sock
RW-2	11/27/07	3362.00	49.00	49.94	0.94	NA	NA	NA	3312.86	No Sock
RW-2	12/05/07	3362.00	48.86	49.60	0.74	Hand Bailed	1.00	8.00	3313.03	
RW-2	12/05/07	3362.00	ND	49.36	ND	NA	NA	NA	3312.64	No Sock
RW-2	12/12/07	3362.00	48.93	49.58	0.65	Hand Bailed	1.00	8.00	3312.97	
RW-2	12/12/07	3362.00	ND	49.48	ND	NA	NA	NA	3312.52	No Sock
RW-2	12/18/07	3362.00	49.15	49.90	0.75	Hand Bailed	1.00	9.00	3312.74	
RW-2	12/18/07	3362.00	ND	50.23	ND	NA	NA	NA	3311.77	No Sock
RW-2	12/27/07	3362.00	49.11	49.87	0.76	Hand Bailed	1.00	8.00	3312.78	
RW-2	12/27/07	3362.00	ND	50.18	ND	NA	NA	NA	3311.82	No Sock
RW-2	01/03/08	3362.00	49.06	49.92	0.86	Hand Bailed	1.00	4.00	3312.81	
RW-2	01/03/08	3362.00	50.02	50.08	0.06	NA	NA	NA	3311.97	No Sock
RW-2	01/09/08	3362.00	49.11	49.91	0.80	Hand Bailed	1.50	8.50	3312.77	
RW-2	01/09/08	3362.00	49.90	49.93	0.03	NA	NA	NA	3312.10	No Sock

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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	01/17/08	3362.00	48.55	49.75	1.20	Hand Bailed	1.00	9.00	3313.27	
RW-2	01/17/08	3362.00	ND	50.50	ND	NA	NA	NA	3311.50	No Sock
RW-2	01/23/08	3362.00	49.12	49.55	0.43	Hand Bailed	1.00	9.00	3312.82	
RW-2	01/30/08	3362.00	49.02	49.65	0.63	Hand Bailed	1.00	19.00	3312.89	
RW-2	01/30/08	3362.00	ND	50.60	ND	NA	NA	NA	3311.40	No Sock
RW-2	02/06/08	3362.00	48.08	48.50	0.42	Hand Bailed	1.00	19.00	3313.86	
RW-2	02/06/08	3362.00	ND	50.02	ND	NA	NA	NA	3311.98	No Sock
RW-2	02/13/08	3362.00	ND	49.03	ND	Hand Bailed	1.00	19.00	3312.97	
RW-2	02/13/08	3362.00	50.00	50.01	0.01	NA	NA	NA	3312.00	No Sock
RW-2	02/18/08	3362.00	49.11	49.39	0.28	Hand Bailed	1.00	19.00	3312.85	
RW-2	02/18/08	3362.00	ND	48.95	ND	NA	NA	NA	3313.05	No Sock
RW-2	02/27/08	3362.00	49.14	49.38	0.24	Hand Bailed	1.00	19.00	3312.82	
RW-2	02/27/08	3362.00	ND	50.07	ND	NA	NA	NA	3311.93	No Sock
RW-2	03/04/08	3362.00	49.10	49.38	0.28	Hand Bailed	0.25	20.00	3312.86	
RW-2	03/04/08	3362.00	ND	50.42	ND	NA	NA	NA	3311.58	No Sock
RW-2	03/12/08	3362.00	49.05	49.44	0.39	Hand Bailed	1.00	19.00	3312.89	
RW-2	03/12/08	3362.00	ND	50.30	ND	NA	NA	NA	3311.70	No Sock
RW-2	03/19/08	3362.00	49.11	49.41	0.30	Hand Bailed	0.50	19.00	3312.85	
RW-2	03/19/08	3362.00	ND	50.49	ND	NA	NA	NA	3311.51	No Sock
RW-2	03/26/08	3362.00	49.06	49.66	0.60	Hand Bailed	0.50	19.00	3312.85	
RW-2	03/26/08	3362.00	ND	50.15	ND	NA	NA	NA	3311.85	No Sock
RW-2	04/02/08	3362.00	49.08	49.45	0.37	Pumped	0.50	19.00	3312.86	
RW-2	04/02/08	3362.00	ND	50.08	ND	NA	NA	NA	3311.92	No Sock
RW-2	04/09/08	3362.00	49.04	49.33	0.29	Pumped	0.50	19.00	3312.92	
RW-2	04/09/08	3362.00	ND	50.00	ND	NA	NA	NA	3312.00	No Sock
RW-2	04/16/08	3362.00	49.09	49.39	0.30	Pumped	0.50	19.00	3312.87	
RW-2	04/16/08	3362.00	ND	50.16	ND	NA	NA	NA	3311.84	No Sock
RW-2	04/24/08	3362.00	49.06	49.65	0.59	NA	NA	NA	3312.85	No Sock
RW-2	04/30/08	3362.00	49.01	49.77	0.76	Pumped	0.50	19.00	3312.88	
RW-2	04/30/08	3362.00	ND	50.00	ND	NA	NA	NA	3312.00	No Sock
RW-2	05/07/08	3362.00	48.98	49.80	0.82	Pumped	0.50	19.00	3312.90	
RW-2	05/07/08	3362.00	ND	50.28	ND	NA	NA	NA	3311.72	No Sock
RW-2	05/14/08	3362.00	48.91	49.85	0.94	Pumped	0.75	19.00	3312.95	
RW-2	05/14/08	3362.00	ND	50.36	ND	NA	NA	NA	3311.64	No Sock
RW-2	05/22/08	3362.00	48.98	49.82	0.84	Pumped	0.75	19.00	3312.89	
RW-2	05/22/08	3362.00	ND	50.43	ND	NA	NA	NA	3311.57	No Sock

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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	05/28/08	3362.00	49.05	49.99	0.94	Pumped	1.00	26.00	3312.81	
RW-2	05/28/08	3362.00	ND	50.21	ND	NA	NA	NA	3311.79	No Sock
RW-2	06/04/08	3362.00	49.10	49.86	0.76	Pumped	1.00	19.00	3312.79	
RW-2	06/04/08	3362.00	ND	50.96	ND	NA	NA	NA	3311.04	No Sock
RW-2	06/11/08	3362.00	49.09	49.90	0.81	Pumped	1.00	19.00	3312.79	
RW-2	06/11/08	3362.00	ND	51.21	ND	NA	NA	NA	3310.79	No Sock
RW-2	06/18/08	3362.00	49.10	50.01	0.91	Pumped	1.00	19.00	3312.76	
RW-2	06/18/08	3362.00	ND	50.86	ND	NA	NA	NA	3311.14	No Sock
RW-2	06/26/08	3362.00	49.14	50.08	0.94	Pumped	1.00	19.00	3312.72	
RW-2	06/26/08	3362.00	ND	59.12	ND	NA	NA	NA	3302.88	No Sock
RW-2	07/02/08	3362.00	49.20	50.04	0.84	Pumped	1.00	19.00	3312.67	
RW-2	07/02/08	3362.00	ND	51.20	ND	NA	NA	NA	3310.80	No Sock
RW-2	07/07/08	3362.00	49.20	50.13	0.93	Pumped	1.00	19.00	3312.66	
RW-2	07/07/08	3362.00	ND	50.26	ND	NA	NA	NA	3311.74	No Sock
RW-2	07/16/08	3362.00	49.21	50.18	0.97	Pumped	1.00	19.00	3312.64	
RW-2	07/16/08	3362.00	ND	50.48	ND	NA	NA	NA	3311.52	No Sock
RW-2	07/22/08	3362.00	49.26	50.24	0.98	Pumped	1.00	19.00	3312.59	
RW-2	07/22/08	3362.00	ND	50.56	ND	NA	NA	NA	3311.44	No Sock
RW-2	07/29/08	3362.00	49.30	50.29	0.99	Pumped	1.00	19.00	3312.55	
RW-2	07/29/08	3362.00	ND	51.12	ND	NA	NA	NA	3310.88	No Sock
RW-2	08/06/08	3362.00	49.23	50.25	1.02	Pumped	1.00	19.00	3312.62	
RW-2	08/06/08	3362.00	ND	50.89	ND	NA	NA	NA	3311.11	No Sock
RW-2	08/13/08	3362.00	49.28	50.33	1.05	Pumped	1.00	4.00	3312.56	
RW-2	08/13/08	3362.00	ND	51.06	ND	NA	NA	NA	3310.94	No Sock
RW-2	08/18/08	3362.00	NG	NG	NG	NA	NA	NA	NG	No Sock
RW-2	08/27/08	3362.00	49.33	50.39	1.06	NA	NA	NA	3312.51	No Sock
RW-2	09/02/08	3362.00	49.28	50.43	1.15	NA	NA	NA	3312.55	No Sock
RW-2	09/09/08	3362.00	49.28	50.44	1.16	NA	NA	NA	3312.55	No Sock
RW-2	09/16/08	3362.00	49.18	50.87	1.69	Pumped	2.00	9.00	3312.57	
RW-2	09/16/08	3362.00	ND	49.62	ND	NA	NA	NA	3312.38	
RW-2	09/24/08	3362.00	49.19	50.85	1.66	Pumped	1.00	9.00	3312.56	
RW-2	09/24/08	3362.00	ND	50.75	ND	NA	NA	NA	3311.25	
RW-2	10/01/08	3362.00	49.15	50.62	1.47	Pumped	2.00	10.00	3312.63	
RW-2	10/01/08	3362.00	ND	49.95	ND	NA	NA	NA	3312.05	
RW-2	10/08/08	3362.00	ND	49.40	ND	Pumped	2.00	18.00	3312.60	
RW-2	10/08/08	3362.00	49.20	50.52	1.32	NA	NA	NA	3312.60	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	10/15/08	3362.00	49.28	50.27	0.99	Pumped	4.00	36.00	3312.57	
RW-2	10/22/08	3362.00	49.38	50.18	0.80	Pumped	3.00	17.00	3312.50	
RW-2	10/22/08	3362.00	ND	50.04	ND	NA	NA	NA	3311.96	
RW-2	10/29/08	3362.00	49.29	50.19	0.90	Pumped	3.00	27.00	3312.58	
RW-2	10/29/08	3362.00	ND	49.70	ND	NA	NA	NA	3312.30	
RW-2	11/05/08	3362.00	49.32	50.21	0.89	Pumped	1.00	19.00	3312.55	
RW-2	11/05/08	3362.00	ND	49.61	ND	NA	NA	NA	3312.39	
RW-2	11/12/08	3362.00	49.21	50.11	0.90	Pumped	1.00	19.00	3312.66	
RW-2	11/12/08	3362.00	48.38	48.39	0.01	NA	NA	NA	3313.62	
RW-2	11/19/08	3362.00	49.29	49.92	0.63	Pumped	2.00	38.00	3312.62	
RW-2	11/19/08	3362.00	ND	50.10	ND	NA	NA	NA	3311.90	
RW-2	11/26/08	3362.00	49.33	49.76	0.43	Pumped	0.50	19.50	3312.61	
RW-2	11/26/08	3362.00	49.41	49.46	0.05	NA	NA	NA	3312.58	
RW-2	12/03/08	3362.00	49.34	49.81	0.47	Pumped	0.50	9.50	3312.59	
RW-2	12/03/08	3362.00	ND	49.44	ND	NA	NA	NA	3312.56	New sock
RW-2	12/10/08	3362.00	49.47	49.51	0.04	Pumped	0.50	9.50	3312.52	
RW-2	12/10/08	3362.00	ND	49.51	ND	NA	NA	NA	3312.49	
RW-2	12/17/08	3362.00	49.43	49.52	0.09		0.25	9.75	3312.56	Flipped Sock
RW-2	12/17/08	3362.00	ND	49.49	ND	NA	NA	NA	3312.51	
RW-2	12/21/08	3362.00	49.39	49.91	0.52		0.50	14.50	3312.53	No Sock
RW-2	12/21/08	3362.00	ND	50.18	ND	NA	NA	NA	3311.82	
RW-2	12/31/08	3362.00	49.41	49.90	0.49		0.25	9.75	3312.52	
RW-2	12/31/08	3362.00	49.43	49.51	0.08	NA	NA	NA	3312.56	
RW-2	01/07/09	3362.00	49.35	49.80	0.45	Hand Bailed	1.00	9.00	3312.58	
RW-2	01/07/09	3362.00	49.41	49.42	0.01	NA	NA	NA	3312.59	
RW-2	01/15/09	3362.00	49.39	49.90	0.51	Pumped	0.50	9.50	3312.53	
RW-2	01/15/09	3362.00	ND	49.54	ND	NA	NA	NA	3312.46	
RW-2	01/22/09	3362.00	49.34	49.73	0.39	Hand Bailed	0.50	9.50	3312.60	No Sock
RW-2	01/28/09	3362.00	49.34	49.75	0.41	Hand Bailed	0.25	9.75	3312.60	No Sock
RW-2	01/28/09	3362.00	49.41	49.45	0.04	NA	NA	NA	3312.58	
RW-2	02/04/09	3362.00	49.40	49.87	0.47	Pumped	0.50	16.50	3312.53	
RW-2	02/04/09	3362.00	ND	49.56	ND	NA	NA	NA	3312.44	
RW-2	02/11/09	3362.00	49.41	49.77	0.36	Pumped	0.50	24.50	3312.54	
RW-2	02/11/09	3362.00	ND	49.49	ND	NA	NA	NA	3312.51	
RW-2	02/17/09	3362.00	49.36	49.67	0.31	Pumped	1.00	39.00	3312.59	
RW-2	02/17/09	3362.00	ND	49.40	ND	NA	NA	NA	3312.60	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	02/25/09	3362.00	49.37	49.76	0.39	Pumped	0.25	19.75	3312.57	
RW-2	02/25/09	3362.00	ND	49.56	ND	NA	NA	NA	3312.44	
RW-2	03/04/09	3362.00	49.31	49.70	0.39	Pumped	0.50	19.50	3312.63	
RW-2	03/04/09	3362.00	ND	49.32	ND	NA	NA	NA	3312.68	
RW-2	03/11/09	3362.00	49.46	49.79	0.33	Pumped	0.50	19.50	3312.49	
RW-2	03/11/09	3362.00	ND	49.48	ND	NA	NA	NA	3312.52	
RW-2	03/18/09	3362.00	49.35	49.67	0.32	Pumped	0.25	14.75	3312.60	
RW-2	03/18/09	3362.00	ND	49.41	ND	NA	NA	NA	3312.59	
RW-2	03/25/09	3362.00	49.31	49.65	0.34	Pumped	0.10	19.90	3312.64	
RW-2	03/25/09	3362.00	ND	49.69	ND	NA	NA	NA	3312.31	
RW-2	04/01/09	3362.00	49.32	49.74	0.42	NA	NA	NA	3312.62	
RW-2	04/08/09	3362.00	49.33	49.98	0.65	Pumped	0.50	19.50	3312.57	
RW-2	04/08/09	3362.00	ND	49.49	ND	NA	NA	NA	3312.51	
RW-2	04/15/09	3362.00	49.35	49.75	0.40	Pumped	0.25	14.75	3312.59	
RW-2	04/15/09	3362.00	ND	50.24	ND	NA	NA	NA	3311.76	
RW-2	04/22/09	3362.00	49.30	49.95	0.65	NA	NA	NA	3312.60	
RW-2	04/29/09	3362.00	49.40	49.72	0.32	Pumped	0.50	19.50	3312.55	
RW-2	04/29/09	3362.00	ND	49.69	ND	NA	NA	NA	3312.31	
RW-2	05/06/09	3362.00	49.44	49.74	0.30	Pumped	1.50	18.50	3312.52	
RW-2	05/06/09	3362.00	ND	49.50	ND	NA	NA	NA	3312.50	
RW-2	05/14/09	3362.00	49.41	49.75	0.34	NA	NA	NA	3312.54	
RW-2	05/14/09	3362.00	ND	49.99	ND	Pumped	0.50	19.50	3312.01	
RW-2	05/19/09	3362.00	49.48	49.70	0.22	Pumped	0.50	30.00	3312.49	
RW-2	05/27/09	3362.00	49.43	49.72	0.29	NA	NA	NA	3312.53	
RW-2	05/27/09	3362.00	ND	50.01	ND	Pumped	0.50	19.50	3311.99	
RW-2	06/03/09	3362.00	49.49	49.86	0.37	NA	NA	NA	3312.45	
RW-2	06/03/09	3362.00	ND	49.64	ND	Pumped	0.50	19.50	3312.36	
RW-2	06/11/09	3362.00	49.50	49.82	0.32	NA	NA	NA	3312.45	
RW-2	06/11/09	3362.00	ND	49.71	ND	Pumped	0.50	19.50	3312.29	
RW-2	06/17/09	3362.00	49.45	49.83	0.38	NA	NA	NA	3312.49	
RW-2	06/17/09	3362.00	ND	50.60	ND	Pumped	1.00	19.00	3311.40	
RW-2	06/23/09	3362.00	49.89	50.32	0.43	NA	NA	NA	3312.05	
RW-2	06/23/09	3362.00	ND	50.32	ND	Pumped	0.25	9.75	3311.68	
RW-2	07/01/09	3362.00	49.48	49.70	0.22	NA	NA	NA	3312.49	
RW-2	07/01/09	3362.00	ND	50.41	ND	Pumped	0.25	14.75	3311.59	
RW-2	07/07/09	3362.00	49.50	49.67	0.17	Pumped	0.25	14.75	3312.47	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
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Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	07/07/09	3362.00	ND	50.78	ND	NA	NA	NA	3311.22	
RW-2	07/15/09	3362.00	49.53	49.83	0.30	Pumped	1.00	NA	3312.43	
RW-2	07/15/09	3362.00	ND	50.52	ND	NA	NA	NA	3311.48	
RW-2	07/29/09	3362.00	49.50	49.85	0.35	Pumped	1.00	14.75	3312.45	
RW-2	07/29/09	3362.00	ND	49.62	ND	NA	NA	NA	3312.38	
RW-2	08/05/09	3362.00	49.57	49.77	0.20	Pumped	0.25	14.75	3312.40	
RW-2	08/05/09	3362.00	ND	51.25	ND	NA	NA	NA	3310.75	
RW-2	08/12/09	3362.00	49.52	49.70	0.18	Pumped	0.25	14.75	3312.45	
RW-2	08/12/09	3362.00	ND	50.65	ND	NA	NA	NA	3311.35	
RW-2	08/19/09	3362.00	49.50	49.65	0.15	Pumped	0.25	14.75	3312.48	
RW-2	08/19/09	3362.00	ND	51.15	ND	NA	NA	NA	3310.85	
RW-2	08/26/09	3362.00	49.61	49.74	0.13	NA	NA	NA	3312.37	
RW-2	09/02/09	3362.00	49.51	49.77	0.26	Pumped	0.25	14.75	3312.45	
RW-2	09/02/09	3362.00	ND	51.87	ND	NA	NA	NA	3310.13	
RW-2	09/09/09	3362.00	49.55	49.68	0.13	Pumped	0.25	14.75	3312.43	
RW-2	09/09/09	3362.00	ND	50.22	ND	NA	NA	NA	3311.78	
RW-2	09/16/09	3362.00	49.63	49.81	0.18	Pumped	0.25	14.75	3312.34	
RW-2	09/16/09	3362.00	ND	51.00	ND	NA	NA	NA	3311.00	
RW-2	09/23/09	3362.00	49.58	49.75	0.17	Pumped	0.25	19.75	3312.39	
RW-2	09/23/09	3362.00	ND	50.98	ND	NA	NA	NA	3311.02	
RW-2	09/30/09	3362.00	49.59	49.79	0.20	Pumped	0.25	9.75	3312.38	
RW-2	09/30/09	3362.00	ND	50.93	ND	AM	NA	NA	3311.07	
RW-2	09/30/09	3362.00	49.55	49.57	0.02	Pumped	NA	10.00	3312.45	
RW-2	09/30/09	3362.00	ND	50.82	ND	PM	NA	NA	3311.18	
RW-2	10/07/09	3362.00	49.63	49.78	0.15	Pumped	0.25	9.75	3312.35	
RW-2	10/07/09	3362.00	ND	50.35	ND	AM	NA	NA	3311.65	
RW-2	10/07/09	3362.00	49.60	49.62	0.02	Pumped	0.10	9.90	3312.40	
RW-2	10/07/09	3362.00	ND	50.43	ND	PM	NA	NA	3311.57	
RW-2	10/14/09	3362.00	49.64	49.77	0.13	Pumped	0.50	9.50	3312.34	
RW-2	10/14/09	3362.00	ND	50.24	ND	PM	NA	NA	3311.76	
RW-2	10/14/09	3362.00	49.58	49.62	0.04	Pumped	0.10	9.90	3312.41	
RW-2	10/14/09	3362.00	ND	50.23	ND	PM	NA	NA	3311.77	
RW-2	10/21/09	3362.00	49.56	49.77	0.21	Hand Bailed	0.50	9.50	3312.41	
RW-2	10/21/09	3362.00	ND	49.75	ND	NA	NA	NA	3312.25	
RW-2	10/28/09	3362.00	49.52	49.74	0.22	Pumped	0.25	19.75	3312.45	
RW-2	10/28/09	3362.00	ND	50.21	ND	NA	NA	NA	3311.79	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	11/04/09	3362.00	49.67	49.92	0.25		0.25	9.75	3312.29	
RW-2	11/04/09	3362.00	ND	50.16	ND	NA	NA	NA	3311.84	
RW-2	11/04/09	3362.00	49.66	49.68	0.02		0.00	10.00	3312.34	
RW-2	11/04/09	3362.00	ND	50.03	ND	NA	NA	NA	3311.97	
RW-2	11/11/09	3362.00	49.68	49.88	0.20		0.50	9.50	3312.29	
RW-2	11/11/09	3362.00	ND	50.23	ND	NA	NA	NA	3311.77	
RW-2	11/11/09	3362.00	49.63	49.64	0.01		0.10	9.90	3312.37	
RW-2	11/11/09	3362.00	ND	50.53	ND	NA	NA	NA	3311.47	
RW-2	11/18/09	3362.00	49.61	49.78	0.17		0.10	19.90	3312.36	
RW-2	11/18/09	3362.00	ND	50.51	ND	NA	NA	NA	3311.49	
RW-2	11/25/09	3362.00	49.68	49.92	0.24		0.10	9.90	3312.28	
RW-2	11/25/09	3362.00	ND	50.37	ND	NA	NA	NA	3311.63	
RW-2	12/02/09	3362.00	49.64	49.87	0.23		0.10	9.90	3312.33	
RW-2	12/02/09	3362.00	ND	50.29	ND	NA	NA	NA	3311.71	
RW-2	12/09/09	3362.00	49.65	49.92	0.27		0.10	9.90	3312.31	
RW-2	12/09/09	3362.00	ND	50.69	ND	NA	NA	NA	3311.31	
RW-2	12/16/09	3362.00	49.70	50.03	0.33		0.10	29.90	3312.25	
RW-2	12/16/09	3362.00	ND	50.18	ND	NA	NA	NA	3311.82	
RW-2	12/23/09	3362.00	49.62	49.83	0.21		0.25	14.75	3312.35	
RW-2	12/23/09	3362.00	ND	49.98	ND	NA	NA	NA	3312.02	
RW-2	12/30/09	3362.00	49.61	49.91	0.30		0.25	9.75	3312.35	
RW-2	12/30/09	3362.00	ND	50.23	ND	NA	NA	NA	3311.77	
RW-2	01/06/10	3362.00	49.59	49.86	0.27		0.10	14.90	3312.37	
RW-2	01/06/10	3362.00	ND	50.16	ND	NA	NA	NA	3311.84	
RW-2	01/13/10	3362.00	49.60	49.94	0.34		0.25	14.75	3312.35	
RW-2	01/20/10	3362.00	49.55	49.74	0.19		0.10	9.90	3312.42	
RW-2	01/27/10	3362.00	49.64	49.83	0.19		0.10	14.90	3312.33	
RW-2	02/11/10	3362.00	49.58	50.05	0.47		0.25	14.75	3312.35	
RW-2	02/17/10	3362.00	49.58	49.78	0.20		0.10	9.90	3312.39	
RW-2	03/02/10	3362.00	50.11	50.19	0.08		0.10	9.90	3311.88	
RW-2	03/10/10	3362.00	49.50	49.63	0.13		0.10	9.90	3312.48	
RW-2	03/17/10	3362.00	49.56	49.79	0.23		0.10	14.90	3312.41	
RW-2	03/24/10	3362.00	49.55	49.67	0.12		0.10	19.90	3312.43	
RW-2	03/31/10	3362.00	49.45	49.60	0.15		0.10	19.90	3312.53	
RW-2	04/07/10	3362.00	49.55	49.70	0.15		0.10	19.90	3312.43	
RW-2	04/14/10	3362.00	49.50	49.62	0.12		0.10	19.90	3312.48	

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Vacuum to Jal Mainline #5
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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	04/21/10	3362.00	49.42	49.58	0.16		0.10	14.90	3312.56	
RW-2	04/28/10	3362.00	49.49	49.63	0.14		0.10	9.90	3312.49	
RW-2	05/05/10	3362.00	49.50	49.62	0.12	Hand Bailed	0.10	9.90	3312.48	
RW-2	05/11/10	3362.00	49.40	49.55	0.15	Pumped	0.10	34.90	3312.58	
RW-2	05/19/10	3362.00	49.47	49.63	0.16	Pumped	0.10	9.90	3312.51	
RW-2	05/29/10	3362.00	49.49	49.65	0.16	Pumped	0.10	9.90	3312.49	
RW-2	06/02/10	3362.00	49.48	49.58	0.10	Pumped	0.10	9.90	3312.51	
RW-2	06/12/10	3362.00	49.53	49.63	0.10	Pumped	0.10	9.90	3312.46	
RW-2	06/15/10	3362.00	49.45	49.52	0.07	Pumped	0.10	9.90	3312.54	
RW-2	06/25/10	3362.00	49.49	49.64	0.15	Pumped	<.25	10.00	3312.49	
RW-2	07/07/10	3362.00	49.53	49.73	0.20	Pumped	<.25	10.00	3312.44	
RW-2	07/14/10	3362.00	49.52	49.67	0.15	Pumped	0.10	9.90	3312.46	
RW-2	07/21/10	3362.00	49.54	49.66	0.12	Pumped	0.10	9.90	3312.44	
RW-2	07/28/10	3362.00	49.54	49.64	0.10	Pumped	0.10	9.90	3312.45	
RW-2	08/03/10	3362.00	49.55	49.67	0.12	Pumped	0.10	9.90	3312.43	
RW-2	08/11/10	3362.00	49.50	49.65	0.15	NA	NA	NA	3312.48	
RW-2	08/18/10	3362.00	49.48	49.68	0.20	Pumped	0.25	14.75	3312.49	
RW-2	08/25/10	3362.00	49.55	49.68	0.13	Pumped	0.10	9.90	3312.43	
RW-2	09/01/10	3362.00	49.47	49.58	0.11	Pumped	0.10	9.90	3312.51	
RW-2	09/08/10	3362.00	49.53	49.61	0.08	Pumped	0.10	9.90	3312.46	
RW-2	09/15/10	3362.00	49.54	49.66	0.12	Pumped	0.10	9.90	3312.44	
RW-2	09/21/10	3362.00	49.48	49.56	0.08	Pumped	0.10	19.90	3312.51	
RW-2	10/01/10	3362.00	49.57	49.67	0.10	Pumped	0.10	9.90	3312.42	
RW-2	10/06/10	3362.00	49.60	49.66	0.06	Pumped	0.10	9.90	3312.39	
RW-2	10/13/10	3362.00	49.58	49.65	0.07	Pumped	0.10	14.90	3312.41	
RW-2	10/22/10	3362.00	49.49	49.57	0.08	Pumped	0.10	9.90	3312.50	
RW-2	10/27/10	3362.00	49.40	49.48	0.08	Pumped	0.10	9.90	3312.59	
RW-2	11/03/10	3362.00	49.58	49.74	0.16	Pumped	0.10	9.90	3312.40	
RW-2	11/10/10	3362.00	49.41	49.49	0.08	NA	NA	NA	3312.58	
RW-2	11/16/10	3362.00	49.50	49.61	0.11	Pumped	0.10	9.90	3312.48	
RW-2	11/16/10	3362.00	ND	50.21	ND				3311.79	
RW-2	11/23/10	3362.00	49.40	49.50	0.10	Pumped	0.10	9.90	3312.59	
RW-2	11/23/10	3362.00	ND	50.09	ND				3311.91	
RW-2	12/01/10	3362.00	49.39	49.50	0.11	Pumped	0.10	14.90	3312.59	
RW-2	12/01/10	3362.00	ND	49.96	ND				3312.04	
RW-2	12/08/10	3362.00	49.45	49.59	0.14	Pumped	0.10	9.90	3312.53	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	12/08/10	3362.00	ND	50.21	ND				3311.79	
RW-2	12/15/10	3362.00	49.33	49.41	0.08	Pumped	0.10	14.90	3312.66	
RW-2	12/15/10	3362.00	ND	50.26	ND				3311.74	
RW-2	12/21/10	3362.00	49.41	49.47	0.06	Pumped	0.10	9.90	3312.58	
RW-2	12/21/10	3362.00	ND	50.24	ND				3311.76	
RW-2	12/28/10	3362.00	DNG	DNG	DNG	Pumped	0.10	9.90	DNG	
RW-2	01/08/11	3362.00	49.32	49.52	0.20		0.20	9.80	3312.65	
RW-2	01/08/11	3362.00	ND	50.20	ND	NA	NA	NA	3311.80	
RW-2	01/12/11	3362.00	49.47	49.54	0.07		0.10	9.90	3312.52	
RW-2	01/12/11	3362.00	ND	49.65	ND	NA	NA	NA	3312.35	
RW-2	01/19/11	3362.00	49.33	49.40	0.07		0.10	9.90	3312.66	
RW-2	01/19/11	3362.00	ND	50.38	ND	NA	NA	NA	3311.62	
RW-2	01/25/11	3362.00	49.40	49.47	0.07		0.20	9.80	3312.59	
RW-2	01/25/11	3362.00	ND	50.03	ND	NA	NA	NA	3311.97	
RW-2	02/04/11	3362.00	49.34	49.46	0.12		0.20	9.80	3312.64	
RW-2	02/04/11	3362.00	ND	50.45	ND	NA	NA	NA	3311.55	
RW-2	02/08/11	3362.00	49.34	49.37	0.03		0.10	9.90	3312.66	
RW-2	02/08/11	3362.00	ND	50.41	ND	NA	NA	NA	3311.59	
RW-2	02/16/11	3362.00	49.35	49.45	0.10		0.10	9.90	3312.64	
RW-2	02/16/11	3362.00	ND	50.21	ND	NA	NA	NA	3311.79	
RW-2	02/23/11	3362.00	49.34	49.40	0.06		0.10	9.90	3312.65	
RW-2	02/23/11	3362.00	ND	50.78	ND	NA	NA	NA	3311.22	
RW-2	03/02/11	3362.00	49.37	49.57	0.20		0.20	9.80	3312.60	
RW-2	03/02/11	3362.00	ND	50.50	ND	NA	NA	NA	3311.50	
RW-2	03/08/11	3362.00	49.31	49.39	0.08	Hand Bailed	0.10	4.90	3312.68	
RW-2	03/08/11	3362.00	ND	49.54	ND	NA	NA	NA	3312.46	
RW-2	03/16/11	3362.00	49.34	49.44	0.10		0.10	4.90	3312.65	
RW-2	03/16/11	3362.00	ND	49.62	ND	NA	NA	NA	3312.38	
RW-2	03/23/11	3362.00	49.38	49.47	0.09		0.10	4.90	3312.61	
RW-2	03/23/11	3362.00	ND	49.65	ND	NA	NA	NA	3312.35	
RW-2	03/30/11	3362.00	49.31	49.42	0.11		0.10	14.90	3312.67	
RW-2	03/30/11	3362.00	ND	49.36	ND	NA	NA	NA	3312.64	
RW-2	04/08/11	3362.00	49.30	49.39	0.09	Pumped	0.10	9.90	3312.69	
RW-2	04/08/11	3362.00	ND	50.10	ND	NA	NA	NA	3311.90	
RW-2	04/13/11	3362.00	49.28	49.33	0.05		0.10	4.90	3312.71	
RW-2	04/13/11	3362.00	ND	49.63	ND	NA	NA	NA	3312.37	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	04/20/11	3362.00	49.35	49.42	0.07	Hand Bailed	0.10	9.90	3312.64	
RW-2	04/20/11	3362.00	ND	49.54	ND	NA	NA	NA	3312.46	
RW-2	04/27/11	3362.00	49.35	49.42	0.07	Pumped	0.10	14.90	3312.64	
RW-2	04/27/11	3362.00	ND	50.00	ND	NA	NA	NA	3312.00	
RW-2	05/04/11	3362.00	49.29	49.41	0.12		0.10	19.90	3312.69	
RW-2	05/04/11	3362.00	ND	50.21	ND	NA	NA	NA	3311.79	
RW-2	05/11/11	3362.00	49.26	49.34	0.08		0.10	9.90	3312.73	
RW-2	05/11/11	3362.00	ND	50.12	ND	NA	NA	NA	3311.88	
RW-2	05/19/11	3362.00	49.29	49.40	0.11		0.10	19.90	3312.69	
RW-2	05/19/11	3362.00	ND	49.89	ND	NA	NA	NA	3312.11	
RW-2	05/24/11	3362.00	49.32	49.41	0.09		0.10	9.90	3312.67	
RW-2	05/24/11	3362.00	ND	49.60	ND	NA	NA	NA	3312.40	
RW-2	06/01/11	3362.00	49.46	49.51	0.05	NA	NA	NA	3312.53	Sampled
RW-2	06/08/11	3362.00	49.40	49.52	0.12		0.10	9.90	3312.58	
RW-2	06/08/11	3362.00	ND	50.73	ND	NA	NA	NA	3311.27	
RW-2	06/17/11	3362.00	49.30	49.42	0.12		0.00	10.00	3312.68	
RW-2	06/17/11	3362.00	ND	50.60	ND	NA	NA	NA	3311.40	
RW-2	06/21/11	3362.00	49.35	49.50	0.15		0.10	9.90	3312.63	
RW-2	06/21/11	3362.00	ND	50.27	ND	NA	NA	NA	3311.73	
RW-2	06/29/11	3362.00	49.49	49.71	0.22		0.10	9.90	3312.48	
RW-2	06/29/11	3362.00	ND	50.61	ND	NA	NA	NA	3311.39	
RW-2	07/06/11	3362.00	49.53	49.65	0.12		0.10	4.90	3312.45	
RW-2	07/06/11	3362.00	ND	49.64	ND	NA	NA	NA	3312.36	
RW-2	07/13/11	3362.00	49.50	49.61	0.11		0.20	14.80	3312.48	
RW-2	07/13/11	3362.00	ND	49.95	ND	NA	NA	NA	3312.05	
RW-2	07/20/11	3362.00	49.31	49.38	0.07		0.10	4.90	3312.68	
RW-2	07/20/11	3362.00	ND	49.58	ND	NA	NA	NA	3312.42	
RW-2	07/27/11	3362.00	49.48	49.63	0.15		0.10	9.90	3312.50	
RW-2	07/27/11	3362.00	ND	49.76	ND	NA	NA	NA	3312.24	
RW-2	08/03/11	3362.00	49.55	49.66	0.11		0.10	9.90	3312.43	
RW-2	08/03/11	3362.00	ND	49.64	ND	NA	NA	NA	3312.36	
RW-2	08/11/11	3362.00	49.54	49.67	0.13	Hand Bailed	0.10	4.90	3312.44	
RW-2	08/11/11	3362.00	ND	49.82	ND	NA	NA	NA	3312.18	
RW-2	08/16/11	3362.00	49.50	49.68	0.18		0.10	9.90	3312.47	
RW-2	08/16/11	3362.00	ND	49.53	ND	NA	NA	NA	3312.47	
RW-2	08/24/11	3362.00	49.56	49.71	0.15		0.20	9.80	3312.42	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	08/24/11	3362.00	ND	49.60	ND	NA	NA	NA	3312.40	
RW-2	08/30/11	3362.00	49.53	49.74	0.21		0.10	4.90	3312.44	
RW-2	08/30/11	3362.00	ND	49.79	ND	NA	NA	NA	3312.21	
RW-2	09/07/11	3362.00	49.60	49.79	0.19		0.10	4.90	3312.37	
RW-2	09/07/11	3362.00	ND	49.90	ND	NA	NA	NA	3312.10	
RW-2	09/14/11	3362.00	49.55	49.76	0.21		0.10	4.90	3312.42	
RW-2	09/14/11	3362.00	ND	49.71	ND	NA	NA	NA	3312.29	
RW-2	09/21/11	3362.00	49.58	49.81	0.23		0.10	4.90	3312.39	
RW-2	09/21/11	3362.00	ND	49.64	ND	NA	NA	NA	3312.36	
RW-2	09/28/11	3362.00	49.61	49.86	0.25	Hand Bailed	0.10	4.90	3312.35	
RW-2	09/28/11	3362.00	ND	49.68	ND	NA	NA	NA	3312.32	
RW-2	10/05/11	3362.00	49.56	49.81	0.25	Pumped	0.25	9.75	3312.40	Clear at 5 gal
RW-2	10/05/11	3362.00	ND	50.50	ND	NA	NA	NA	3311.50	
RW-2	10/12/11	3362.00	49.67	49.70	0.03		0.10	14.90	3312.33	
RW-2	10/12/11	3362.00	ND	50.78	ND	NA	NA	NA	3311.22	
RW-2	10/18/11	3362.00	49.69	49.82	0.13		0.10	9.90	3312.29	Clear at 3 gal
RW-2	10/18/11	3362.00	ND	50.16	ND	NA	NA	NA	3311.84	
RW-2	10/28/11	3362.00	49.70	49.84	0.14		0.10	9.90	3312.28	Clear at 3 gal
RW-2	10/28/11	3362.00	ND	50.90	ND	NA	NA	NA	3311.10	
RW-2	11/02/11	3362.00	49.64	49.69	0.05		0.10	4.90	3312.35	Clear at 3 gal
RW-2	11/02/11	3362.00	ND	50.49	ND	NA	NA	NA	3311.51	
RW-2	11/09/11	3362.00	49.70	49.78	0.08		0.10	9.90	3312.29	
RW-2	11/09/11	3362.00	ND	49.98	ND	NA	NA	NA	3312.02	
RW-2	11/18/11	3362.00	49.56	49.65	0.09		0.10	4.90	3312.43	
RW-2	11/18/11	3362.00	ND	50.19	ND	NA	NA	NA	3311.81	
RW-2	11/23/11	3362.00	49.64	49.78	0.14		0.10	19.90	3312.34	
RW-2	11/23/11	3362.00	ND	51.00	ND	NA	NA	NA	3311.00	
RW-2	11/28/11	3362.00	49.56	49.69	0.13	NA	NA	NA	3312.42	
RW-2	12/13/11	3362.00	49.57	49.86	0.29		0.10	9.90	3312.39	
RW-2	12/13/11	3362.00	ND	50.43	ND	NA	NA	NA	3311.57	
RW-2	12/20/11	3362.00	49.61	49.74	0.13		0.10	4.90	3312.37	
RW-2	12/20/11	3362.00	ND	50.23	ND	NA	NA	NA	3311.77	
RW-2	12/27/11	3362.00	49.64	49.74	0.10		0.25	9.75	3312.35	
RW-2	12/27/11	3362.00	ND	50.51	ND	NA	NA	NA	3311.49	
RW-2	01/04/12	3362.00	49.66	49.71	0.05	Hand Bailed	0.10	4.90	3312.33	
RW-2	01/04/12	3362.00	ND	49.70	ND	NA	NA	NA	3312.30	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	01/13/12	3362.00	49.62	49.80	0.18		0.10	4.90	3312.35	
RW-2	01/13/12	3362.00	ND	47.72	ND	NA	NA	NA	3314.28	
RW-2	01/18/12	3362.00	49.60	49.76	0.16	Pumped	0.10	9.90	3312.38	
RW-2	01/18/12	3362.00	ND	50.53	ND	NA	NA	NA	3311.47	
RW-2	01/27/12	3362.00	49.55	49.68	0.13		0.10	14.90	3312.43	
RW-2	01/27/12	3362.00	ND	50.55	ND	NA	NA	NA	3311.45	
RW-2	02/02/12	3362.00	49.54	49.59	0.05		0.10	9.90	3312.45	
RW-2	02/02/12	3362.00	ND	49.56	ND	NA	NA	NA	3312.44	
RW-2	02/08/12	3362.00	49.66	49.75	0.09		0.10	9.90	3312.33	
RW-2	02/08/12	3362.00	ND	50.48	ND	NA	NA	NA	3311.52	
RW-2	02/15/12	3362.00	49.59	49.62	0.03		0.10	4.90	3312.41	
RW-2	02/15/12	3362.00	ND	50.68	ND	NA	NA	NA	3311.32	
RW-2	02/22/12	3362.00	50.57	50.62	0.05	NA	NA	NA	3311.42	
RW-2	02/29/12	3362.00	49.56	49.86	0.30		0.10	9.90	3312.40	
RW-2	02/29/12	3362.00	ND	50.26	ND	NA	NA	NA	3311.74	
RW-2	03/06/12	3362.00	49.50	49.80	0.30		0.10	9.90	3312.46	
RW-2	03/06/12	3362.00	ND	50.43	ND	NA	NA	NA	3311.57	
RW-2	03/14/12	3362.00	49.46	49.70	0.24	NA	NA	NA	3312.50	
RW-2	03/21/12	3362.00	49.40	49.55	0.15		0.10	9.90	3312.58	
RW-2	03/21/12	3362.00	ND	50.15	ND	NA	NA	NA	3311.85	
RW-2	03/29/12	3362.00	49.49	49.70	0.21		0.10	9.90	3312.48	
RW-2	03/29/12	3362.00	ND	50.63	ND	NA	NA	NA	3311.37	
RW-2	04/03/12	3362.00	49.55	49.80	0.25		0.10	9.90	3312.41	
RW-2	04/03/12	3362.00	ND	50.25	ND	NA	NA	NA	3311.75	
RW-2	04/11/12	3362.00	49.48	49.70	0.22		0.10	9.90	3312.49	
RW-2	04/11/12	3362.00	ND	49.99	ND	NA	NA	NA	3312.01	
RW-2	04/20/12	3362.00	49.38	49.52	0.14		0.10	9.90	3312.60	
RW-2	04/20/12	3362.00	ND	50.12	ND	NA	NA	NA	3311.88	
RW-2	04/26/12	3362.00	49.45	49.82	0.37		0.10	9.90	3312.49	
RW-2	04/26/12	3362.00	ND	50.20	ND	NA	NA	NA	3311.80	
RW-2	05/02/12	3362.00	49.51	49.61	0.10		0.10	9.90	3312.48	
RW-2	05/02/12	3362.00	ND	50.23	ND	NA	NA	NA	3311.77	
RW-2	05/09/12	3362.00	49.55	49.70	0.15		0.10	9.90	3312.43	
RW-2	05/09/12	3362.00	ND	50.28	ND	NA	NA	NA	3311.72	
RW-2	05/22/12	3362.00	49.48	49.70	0.22	NA	NA	NA	3312.49	Sampled
RW-2	05/29/12	3362.00	49.49	49.64	0.15		0.25	13.00	3312.49	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	05/29/12	3362.00	ND	49.97	ND	NA	NA	NA	3312.03	
RW-2	06/06/12	3362.00	49.53	49.60	0.07		0.10	9.90	3312.46	
RW-2	06/06/12	3362.00	ND	51.44	ND	NA	NA	NA	3310.56	
RW-2	06/13/12	3362.00	49.45	49.49	0.04		0.10	9.90	3312.54	
RW-2	06/13/12	3362.00	ND	51.12	ND	NA	NA	NA	3310.88	
RW-2	06/19/12	3362.00	49.41	49.65	0.24		0.10	9.90	3312.55	
RW-2	06/19/12	3362.00	ND	49.45	ND	NA	NA	NA	3312.55	
RW-2	06/27/12	3362.00	49.45	49.55	0.10	NA	NA	5.00	3312.54	
RW-2	06/27/12	3362.00	ND	50.22	ND	NA	NA	NA	3311.78	
RW-2	06/27/12	3362.00	49.97	50.09	0.12		0.00	5.00	3312.01	
RW-2	06/27/12	3362.00	ND		ND	NA	NA	NA	3362.00	
RW-2	07/05/12	3362.00	49.52	49.62	0.10	NA	0.10	10.00	3312.47	
RW-2	07/05/12	3362.00	ND	50.82	ND	NA	NA	NA	3311.18	
RW-2	07/11/12	3362.00	49.51	49.63	0.12	NA	0.10	10.00	3312.47	
RW-2	07/11/12	3362.00	ND	50.50	ND	NA	NA	NA	3311.50	
RW-2	07/18/12	3362.00	49.53	49.76	0.23	NA	NA	10.00	3312.44	
RW-2	07/18/12	3362.00	ND	49.60	ND	NA	NA	NA	3312.40	
RW-2	07/25/12	3362.00	49.55	49.71	0.16	NA	0.25	9.75	3312.43	
RW-2	07/25/12	3362.00	ND	49.82	ND	NA	NA	NA	3312.18	
RW-2	07/31/12	3362.00	49.55	49.80	0.25	NA	0.10	10.00	3312.41	
RW-2	07/31/12	3362.00	ND	49.45	ND	NA	NA	NA	3312.55	
RW-2	08/08/12	3362.00	49.55	49.85	0.30	NA	NA	NA	3312.41	
RW-2	08/13/12	3362.00	49.48	49.75	0.27	NA	0.10	10.00	3312.48	
RW-2	08/13/12	3362.00	ND	50.58	ND	NA	NA	NA	3311.42	
RW-2	09/05/12	3362.00	49.70	49.93	0.23	NA	0.10	10.00	3312.27	
RW-2	09/11/12	3362.00	49.52	49.70	0.18	NA	0.10	10.00	3312.45	
RW-2	09/19/12	3362.00	49.60	50.14	0.54	NA	1.00	9.00	3312.32	
RW-2	09/19/12	3362.00	ND	50.25	ND	NA	NA	NA	3311.75	
RW-2	09/25/12	3362.00	49.56	49.95	0.39	NA	0.10	10	3312.38	
RW-2	09/25/12	3362.00	ND	50.32	ND	NA	NA	NA	3311.68	
RW-2	10/03/12	3362.00	49.62	50.12	0.50	NA	0.10	10.00	3312.31	
RW-2	10/03/12	3362.00	ND	50.30	ND	NA	NA	NA	3311.70	
RW-2	10/24/12	3362.00	49.50	49.93	0.43	NA	0.10	10.00	3312.44	
RW-2	10/24/12	3362.00	ND	50.25	ND	NA	NA	NA	3311.75	
RW-2	10/30/12	3362.00	49.64	49.85	0.21	NA	0.10	10.00	3312.33	
RW-2	10/30/12	3362.00	ND	49.58	ND	NA	NA	NA	3312.42	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-2	11/06/12	3362.00	49.65	49.85	0.20	NA	0.10	10.00	3312.32	
RW-2	11/06/12	3362.00	ND	50.35	ND	NA	NA	NA	3311.65	
RW-2	11/13/12	3362.00	49.65	50.00	0.35	NA	0.10	10.00	3312.30	
RW-2	11/13/12	3362.00	ND	49.74	ND	NA	NA	NA	3312.26	
RW-2	11/26/12	3362.00	49.55	50.38	0.83	NA	NA	NA	3312.33	
RW-2	12/05/12	3362.00	49.54	50.55	1.01	NA	1.00	9.00	3312.31	
RW-2	12/05/12	3362.00	ND	50.65	ND	NA	NA	NA	3311.35	
RW-2	12/11/12	3362.00	49.68	49.90	0.22	NA	NA	NA	3312.29	
RW-3	03/28/06	3361.93	50.22	50.41	0.19	NA	NA	NA	3311.68	
RW-3	03/29/06	3361.93	50.20	50.37	0.17	NA	NA	NA	3311.70	
RW-3	04/13/06	3361.93	50.02	51.04	1.02	Hand Bailed	2.00	0.00	3311.76	
RW-3	04/13/06	3361.93	50.32	50.37	0.05	NA	NA	NA	3311.60	
RW-3	04/25/06	3361.93	50.15	51.00	0.85	Hand Bailed	2.00	0.00	3311.65	
RW-3	04/25/06	3361.93	51.25	51.30	0.05	NA	NA	NA	3310.67	
RW-3	05/03/06	3361.93	50.10	50.81	0.71	Hand Bailed	3.00	0.00	3311.72	
RW-3	05/03/06	3361.93	50.15	50.31	0.16	NA	NA	NA	3311.76	
RW-3	05/11/06	3361.93	50.18	50.91	0.73	Hand Bailed	0.75	0.00	3311.64	
RW-3	05/11/06	3361.93	51.01	51.08	0.07	NA	NA	NA	3310.91	
RW-3	05/24/06	3361.93	50.13	50.81	0.68	Hand Bailed	0.75	0.00	3311.70	
RW-3	05/24/06	3361.93	51.96	52.00	0.04	NA	NA	NA	3309.96	
RW-3	06/07/06	3361.93	50.17	50.90	0.73	Hand Bailed	1.00	0.00	3311.65	
RW-3	06/07/06	3361.93	50.50	50.65	0.15	NA	NA	NA	3311.41	
RW-3	06/15/06	3361.93	50.13	50.63	0.50	NA	NA	NA	3311.73	
RW-3	06/29/06	3361.93	50.14	50.96	0.82	Hand Bailed	1.00	0.00	3311.67	
RW-3	06/29/06	3361.93	50.53	50.58	0.05	NA	NA	NA	3311.39	
RW-3	07/11/06	3361.93	50.12	50.61	0.49	NA	NA	NA	3311.74	
RW-3	07/11/06	3361.93	50.12	50.50	0.38	NA	NA	NA	3311.75	
RW-3	07/25/06	3361.93	50.22	50.54	0.32	Hand Bailed	0.50	0.00	3311.66	
RW-3	07/25/06	3361.93	50.55	50.60	0.05	NA	NA	NA	3311.37	
RW-3	08/09/06	3361.93	50.38	50.55	0.17	NA	NA	NA	3311.52	
RW-3	08/22/06	3361.93	50.22	50.77	0.55	Hand Bailed	0.75	9.25	3311.63	
RW-3	08/22/06	3361.93	50.79	50.84	0.05	NA	NA	NA	3311.13	
RW-3	09/12/06	3361.93	49.55	50.12	0.57	NA	NA	NA	3312.29	
RW-3	09/19/06	3361.93	50.30	50.65	0.35	Hand Bailed	0.50	9.50	3311.58	
RW-3	09/19/06	3361.93	51.08	51.10	0.02	NA	NA	NA	3310.85	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	10/03/06	3361.93	50.16	50.56	0.40	Hand Bailed	0.50	9.50	3311.71	
RW-3	10/03/06	3361.93	51.13	51.16	0.03	NA	NA	NA	3310.80	Installed Sock
RW-3	10/17/06	3361.93	50.12	50.48	0.36	Hand Bailed	50.00	4.50	3311.76	
RW-3	10/17/06	3361.93	50.16	50.18	0.02	NA	NA	NA	3311.77	Removed sock
RW-3	10/31/06	3361.93	50.07	51.13	1.06	Hand Bailed	1.50	3.50	3311.70	
RW-3	10/31/06	3361.93	50.08	50.15	0.07	NA	NA	NA	3311.84	Installed Sock
RW-3	11/15/06	3361.93	50.24	50.62	0.38	Hand Bailed	0.50	9.50	3311.63	
RW-3	11/15/06	3361.93	50.42	50.46	0.04	NA	NA	NA	3311.50	Removed sock
RW-3	12/06/06	3361.42	49.93	51.10	1.17	NA	NA	NA	3311.31	No Sock
RW-3	12/13/06	3361.42	49.91	51.13	1.22	Hand Bailed	1.50	3.50	3311.33	
RW-3	12/13/06	3361.42	52.51	52.56	0.05	NA	NA	NA	3308.90	No Sock
RW-3	12/20/06	3361.42	49.85	51.28	1.43	Hand Bailed	0.50	9.50	3311.36	
RW-3	12/20/06	3361.42	50.15	50.20	0.05	NA	NA	NA	3311.26	No Sock
RW-3	12/27/06	3361.42	49.89	50.98	1.09	Hand Bailed	1.50	3.50	3311.37	
RW-3	12/27/06	3361.42	ND	52.90	ND	NA	NA	NA	3308.52	No Sock
RW-3	01/03/07	3361.42	49.93	51.00	1.07	Hand Bailed	1.00	9.00	3311.33	
RW-3	01/03/07	3361.42	50.33	50.38	0.05	NA	NA	NA	3311.08	No Sock
RW-3	01/09/07	3361.42	50.00	50.98	0.98	Hand Bailed	1.25	3.75	3311.27	
RW-3	01/09/07	3361.42	50.96	50.98	0.02	NA	NA	NA	3310.46	No Sock
RW-3	01/18/07	3361.42	49.82	50.85	1.03	Hand Bailed	1.50	8.50	3311.45	
RW-3	01/18/07	3361.42	50.45	50.50	0.05	NA	NA	NA	3310.96	No Sock
RW-3	01/22/07	3361.42	49.82	50.67	0.85	Hand Bailed	1.50	8.50	3311.47	
RW-3	01/22/07	3361.42	50.33	50.35	0.02	NA	NA	NA	3311.09	No Sock
RW-3	02/01/07	3361.42	49.80	50.63	0.83	Hand Bailed	2.00	8.00	3311.50	
RW-3	02/01/07	3361.42	50.63	50.68	0.05	NA	NA	NA	3310.78	No Sock
RW-3	02/07/07	3361.42	49.69	49.96	0.27	Hand Bailed	1.50	8.50	3311.69	
RW-3	02/07/07	3361.42	49.91	49.94	0.03	NA	NA	NA	3311.51	No Sock
RW-3	02/14/07	3361.42	49.70	49.97	0.27	Hand Bailed	0.75	9.00	3311.68	
RW-3	02/14/07	3361.42	ND	49.95	ND	NA	NA	NA	3311.47	No Sock
RW-3	02/21/07	3361.42	49.66	49.96	0.30	Hand Bailed	0.50	9.00	3311.72	
RW-3	02/28/07	3361.42	ND	49.99	ND	NA	NA	NA	3311.43	No Sock
RW-3	03/07/07	3361.42	49.78	51.05	1.27	Hand Bailed	1.50	4.00	3311.45	
RW-3	03/07/07	3361.42	50.35	50.40	0.05	NA	NA	NA	3311.06	No Sock
RW-3	03/14/07	3361.42	49.74	50.78	1.04	Hand Bailed	1.00	2.00	3311.52	
RW-3	03/14/07	3361.42	49.97	50.07	0.10	NA	NA	NA	3311.44	No Sock
RW-3	03/21/07	3361.42	49.78	50.80	1.02	Hand Bailed	1.00	1.00	3311.49	

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Plains Marketing, L.P.
Vacuum to Jal Mainline #5
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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	03/21/07	3361.42	49.92	49.98	0.06	NA	NA	NA	3311.49	No Sock
RW-3	03/28/07	3361.42	49.69	50.82	1.13	Hand Bailed	0.75	0.75	3311.56	
RW-3	03/28/07	3361.42	50.02	50.07	0.05	NA	NA	NA	3311.39	No Sock
RW-3	04/03/07	3361.42	49.78	50.78	1.00	Hand Bailed	1.00	0.25	3311.49	
RW-3	04/03/07	3361.42	49.98	50.25	0.27	NA	NA	NA	3311.40	No Sock
RW-3	04/10/07	3361.42	49.74	50.88	1.14	Hand Bailed	0.75	0.50	3311.51	
RW-3	04/10/07	3361.42	50.15	50.20	0.05	NA	NA	NA	3311.26	No Sock
RW-3	04/18/07	3361.42	49.75	50.86	1.11	Hand Bailed	1.00	8.50	3311.50	
RW-3	04/18/07	3361.42	50.06	50.15	0.09	NA	NA	NA	3311.35	No Sock
RW-3	04/24/07	3361.42	49.51	50.99	1.48	Hand Bailed	1.00	8.50	3311.69	
RW-3	04/24/07	3361.42	50.12	50.29	0.17	NA	NA	NA	3311.27	No Sock
RW-3	05/03/07	3361.42	49.63	50.78	1.15	Hand Bailed	1.00	9.00	3311.62	
RW-3	05/03/07	3361.42	50.02	50.10	0.08	NA	NA	NA	3311.39	No Sock
RW-3	05/11/07	3361.42	49.73	50.76	1.03	Hand Bailed	1.00	9.00	3311.54	
RW-3	05/11/07	3361.42	ND	50.48	ND	NA	NA	NA	3310.94	No Sock
RW-3	05/16/07	3361.42	49.80	50.47	0.67	Hand Bailed	0.50	9.00	3311.52	
RW-3	05/16/07	3361.42	ND	50.25	ND	NA	NA	NA	3311.17	No Sock
RW-3	05/23/07	3361.42	49.69	50.31	0.62	Hand Bailed	0.50	9.50	3311.64	
RW-3	05/23/07	3361.42	50.50	50.52	0.02	NA	NA	NA	3310.92	No Sock
RW-3	05/31/07	3361.42	49.68	50.10	0.42	Hand Bailed	0.50	9.50	3311.68	
RW-3	05/31/07	3361.42	50.50	50.52	0.02	NA	NA	NA	3310.92	No Sock
RW-3	06/06/07	3361.42	49.20	50.24	1.04	Hand Bailed	0.75	9.00	3312.06	
RW-3	06/06/07	3361.42	ND	50.38	ND	NA	NA	NA	3311.04	No Sock
RW-3	06/13/07	3361.42	49.75	50.22	0.47	Hand Bailed	0.75	9.00	3311.60	
RW-3	06/13/07	3361.42	ND	50.30	ND	NA	NA	NA	3311.12	No Sock
RW-3	06/19/07	3361.42	49.72	50.38	0.66	Hand Bailed	0.75	9.00	3311.60	
RW-3	06/19/07	3361.42	50.10	50.12	0.02	NA	NA	NA	3311.32	No Sock
RW-3	06/27/07	3361.42	49.71	50.26	0.55	Hand Bailed	0.50	9.00	3311.63	
RW-3	06/27/07	3361.42	ND	50.36	ND	NA	NA	NA	3311.06	No Sock
RW-3	07/05/07	3361.42	49.67	50.25	0.58	Hand Bailed	0.50	9.00	3311.66	
RW-3	07/05/07	3361.42	ND	50.00	ND	NA	NA	NA	3311.42	No Sock
RW-3	07/11/07	3361.42	49.69	50.31	0.62	Hand Bailed	0.75	8.50	3311.64	
RW-3	07/11/07	3361.42	ND	50.38	ND	NA	NA	NA	3311.04	No Sock
RW-3	07/19/07	3361.42	49.69	50.12	0.43	Hand Bailed	0.50	8.50	3311.67	
RW-3	07/19/07	3361.42	ND	50.21	ND	NA	NA	NA	3311.21	No Sock
RW-3	07/24/07	3361.42	49.61	50.18	0.57	Hand Bailed	0.75	9.00	3311.72	

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Plains Marketing, L.P.
Vacuum to Jal Mainline #5
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Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	07/24/07	3361.42	50.18	50.20	0.02	NA	NA	NA	3311.24	No Sock
RW-3	07/31/07	3361.42	49.68	50.30	0.62	Hand Bailed	0.75	9.00	3311.65	
RW-3	07/31/07	3361.42	50.18	50.20	0.02	NA	NA	NA	3311.24	No Sock
RW-3	08/09/07	3361.42	ND	50.49	ND	Hand Bailed	0.75	9.00	3310.93	
RW-3	08/09/07	3361.42	50.45	50.47	0.02	NA	NA	NA	3310.97	No Sock
RW-3	08/16/07	3361.42	49.81	50.48	0.67	Hand Bailed	0.50	9.00	3311.51	
RW-3	08/16/07	3361.42	ND	50.41	ND	NA	NA	NA	3311.01	No Sock
RW-3	08/22/07	3361.42	49.73	50.56	0.83	Hand Bailed	0.75	9.00	3311.57	
RW-3	08/22/07	3361.42	50.48	50.50	0.02	NA	NA	NA	3310.94	No Sock
RW-3	08/28/07	3361.42	49.98	50.71	0.73	Hand Bailed	0.75	9.00	3311.33	
RW-3	08/28/07	3361.42	50.60	50.62	0.02	NA	NA	NA	3310.82	No Sock
RW-3	09/06/07	3361.42	49.68	50.22	0.54	Hand Bailed	0.50	9.00	3311.66	
RW-3	09/06/07	3361.42	ND	50.26	ND	NA	NA	NA	3311.16	No Sock
RW-3	09/13/07	3361.42	49.72	50.25	0.53	Hand Bailed	0.50	9.00	3311.62	
RW-3	09/13/07	3361.42	50.28	50.31	0.03	NA	NA	NA	3311.14	No Sock
RW-3	09/18/07	3361.42	49.70	50.20	0.50	Hand Bailed	0.50	9.00	3311.65	
RW-3	09/18/07	3361.42	ND	50.26	ND	NA	NA	NA	3311.16	No Sock
RW-3	09/26/07	3361.42	49.78	50.28	0.50	Hand Bailed	0.50	9.00	3311.57	
RW-3	09/26/07	3361.42	50.43	50.46	0.03	NA	NA	NA	3310.99	No Sock
RW-3	10/04/07	3361.42	49.84	50.39	0.55	Hand Bailed	0.50	9.00	3311.50	
RW-3	10/04/07	3361.42	50.52	50.58	0.06	NA	NA	NA	3310.89	No Sock
RW-3	10/10/07	3361.42	49.75	50.22	0.47	Hand Bailed	0.50	9.00	3311.60	
RW-3	10/10/07	3361.42	50.36	50.39	0.03	NA	NA	NA	3311.06	No Sock
RW-3	10/17/07	3361.42	49.72	50.24	0.52	Hand Bailed	0.50	9.00	3311.62	
RW-3	10/17/07	3361.42	50.30	50.34	0.04	NA	NA	NA	3311.11	No Sock
RW-3	10/24/07	3361.42	49.76	50.16	0.40	Hand Bailed	0.50	50.00	3311.60	
RW-3	10/24/07	3361.42	ND	50.10	ND	NA	NA	NA	3311.32	No Sock
RW-3	10/31/07	3361.42	49.78	49.90	0.12	Hand Bailed	0.50	10.00	3311.62	
RW-3	10/31/07	3361.42	ND	50.32	ND	NA	NA	NA	3311.10	No Sock
RW-3	11/07/07	3361.42	49.26	49.28	0.02	Hand Bailed	0.25	9.00	3312.16	
RW-3	11/07/07	3361.42	50.20	50.24	0.04	NA	NA	NA	3311.21	No Sock
RW-3	11/13/07	3361.42	49.78	49.94	0.16	NA	NA	NA	3311.62	Installed Sock
RW-3	11/20/07	3361.42	49.88	49.90	0.02	NA	NA	NA	3311.54	Flipped Sock
RW-3	11/27/07	3361.42	49.91	49.93	0.02	Hand Bailed	0.25	8.00	3311.51	
RW-3	11/27/07	3361.42	ND	50.20	ND	NA	NA	NA	3311.22	Sock
RW-3	12/05/07	3361.42	49.60	49.61	0.01	Hand Bailed	0.25	8.00	3311.82	

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Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	12/05/07	3361.42	ND	49.89	ND	NA	NA	NA	3311.53	New sock
RW-3	12/12/07	3361.42	49.57	49.59	0.02	Hand Bailed	0.25	8.00	3311.85	
RW-3	12/12/07	3361.42	ND	49.62	ND	NA	NA	NA	3311.80	Sock
RW-3	12/18/07	3361.42	ND	49.96	ND	Hand Bailed	0.00	10.00	3311.46	
RW-3	12/18/07	3361.42	ND	51.58	ND	NA	NA	NA	3309.84	New sock
RW-3	12/27/07	3361.42	ND	49.84	ND	Hand Bailed	0.00	9.00	3311.58	
RW-3	12/27/07	3361.42	ND	51.58	ND	NA	NA	NA	3309.84	New sock
RW-3	01/03/08	3361.42	ND	49.87	ND	Hand Bailed	0.00	5.00	3311.55	
RW-3	01/03/08	3361.42	ND	50.29	ND	NA	NA	NA	3311.13	New sock
RW-3	01/09/08	3361.42	ND	49.90	ND	Hand Bailed	0.00	10.00	3311.52	
RW-3	01/09/08	3361.42	ND	51.75	ND	NA	NA	NA	3309.67	New sock
RW-3	01/17/08	3361.42	ND	49.85	ND	Hand Bailed	0.00	10.00	3311.57	
RW-3	01/17/08	3361.42	ND	51.12	ND	NA	NA	NA	3310.30	New sock
RW-3	01/23/08	3361.42	ND	49.88	ND	NA	NA	NA	3311.54	New sock
RW-3	01/30/08	3361.42	ND	49.81	ND	Hand Bailed	0.00	20.00	3311.61	
RW-3	01/30/08	3361.42	ND	51.68	ND	NA	NA	NA	3309.74	Sock
RW-3	02/06/08	3361.42	ND	49.82	ND	Hand Bailed	0.00	20.00	3311.60	
RW-3	02/06/08	3361.42	ND	51.60	ND	NA	NA	NA	3309.82	Sock
RW-3	02/13/08	3361.42	ND	49.81	ND	Hand Bailed	0.00	20.00	3311.61	
RW-3	02/13/08	3361.42	ND	51.50	ND	NA	NA	NA	3309.92	New sock
RW-3	02/18/08	3361.42	ND	49.80	ND	Hand Bailed	0.00	20.00	3311.62	
RW-3	02/18/08	3361.42	ND	50.58	ND	NA	NA	NA	3310.84	New sock
RW-3	02/27/08	3361.42	ND	49.87	ND	Hand Bailed	0.00	20.00	3311.55	
RW-3	02/27/08	3361.42	ND	49.75	ND	NA	NA	NA	3311.67	New sock
RW-3	03/04/08	3361.42	ND	48.78	ND	Hand Bailed	0.00	20.00	3312.64	
RW-3	03/04/08	3361.42	ND	50.82	ND	NA	NA	NA	3310.60	New sock
RW-3	03/12/08	3361.42	ND	49.87	ND	Hand Bailed	0.00	20.00	3311.55	
RW-3	03/12/08	3361.42	ND	51.45	ND	NA	NA	NA	3309.97	New sock
RW-3	03/19/08	3361.42	ND	49.90	ND	Hand Bailed	0.00	20.00	3311.52	
RW-3	03/19/08	3361.42	ND	51.83	ND	NA	NA	NA	3309.59	New sock
RW-3	03/26/08	3361.42	ND	49.85	ND	Hand Bailed	0.00	20.00	3311.57	
RW-3	03/26/08	3361.42	ND	51.05	ND	NA	NA	NA	3310.37	New sock
RW-3	04/02/08	3361.42	ND	49.98	ND	Hand Bailed	0.00	20.00	3311.44	
RW-3	04/02/08	3361.42	ND	50.43	ND	NA	NA	NA	3310.99	Pump
RW-3	04/09/08	3361.42	ND	49.74	ND	Hand Bailed	0.00	20.00	3311.68	
RW-3	04/09/08	3361.42	ND	50.99	ND	NA	NA	NA	3310.43	Pump

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	04/16/08	3361.42	ND	49.78	ND	Hand Bailed	0.00	20.00	3311.64	
RW-3	04/16/08	3361.42	ND	50.65	ND	NA	NA	NA	3310.77	Pump
RW-3	04/24/08	3361.42	ND	49.85	ND	NA	NA	NA	3311.57	
RW-3	04/30/08	3361.42	ND	49.84	ND	Pumped	0.00	20.00	3311.58	
RW-3	04/30/08	3361.42	ND	51.80	ND	NA	NA	NA	3309.62	
RW-3	05/07/08	3361.42	ND	49.89	ND	Pumped	0.00	20.00	3311.53	
RW-3	05/07/08	3361.42	50.26	51.80	1.54	NA	NA	NA	3310.93	Sock
RW-3	05/14/08	3361.42	49.86	49.94	0.08	Pumped	0.25	19.00	3311.55	
RW-3	05/14/08	3361.42	ND	50.41	ND	NA	NA	NA	3311.01	Sock
RW-3	05/22/08	3361.42	49.91	49.92	0.01	Pumped	0.00	20.00	3311.51	
RW-3	05/22/08	3361.42	ND	50.30	ND	NA	NA	NA	3311.12	Sock
RW-3	05/28/08	3361.42	50.00	50.25	0.25	Pumped	0.50	26.50	3311.38	
RW-3	05/28/08	3361.42	ND	50.50	ND	NA	NA	NA	3310.92	New sock
RW-3	06/04/08	3361.42	50.07	50.22	0.15	Pumped	0.50	19.00	3311.33	
RW-3	06/04/08	3361.42	ND	50.86	ND	NA	NA	NA	3310.56	New sock
RW-3	06/11/08	3361.42	50.11	50.27	0.16	Pumped	0.50	19.00	3311.29	
RW-3	06/11/08	3361.42	ND	50.92	ND	NA	NA	NA	3310.50	New sock
RW-3	06/18/08	3361.42	50.10	50.27	0.17	Pumped	0.50	19.00	3311.29	
RW-3	06/18/08	3361.42	ND	51.03	ND	NA	NA	NA	3310.39	New sock
RW-3	06/26/08	3361.42	50.18	50.23	0.05	Pumped	0.50	19.00	3311.23	
RW-3	06/26/08	3361.42	ND	51.51	ND	NA	NA	NA	3309.91	New sock
RW-3	07/02/08	3361.42	50.21	50.22	0.01	Pumped	0.25	19.00	3311.21	
RW-3	07/02/08	3361.42	ND	51.03	ND	NA	NA	NA	3310.39	New sock
RW-3	07/07/08	3361.42	ND	50.03	ND	Pumped	0.00	20.00	3311.39	
RW-3	07/07/08	3361.42	ND	50.26	ND	NA	NA	NA	3311.16	New sock
RW-3	07/16/08	3361.42	ND	50.10	ND	Pumped	0.00	20.00	3311.32	
RW-3	07/16/08	3361.42	ND	50.53	ND	NA	NA	NA	3310.89	Flipped Sock
RW-3	07/22/08	3361.42	50.11	50.14	0.03	Pumped	0.00	20.00	3311.31	
RW-3	07/22/08	3361.42	ND	50.63	ND	NA	NA	NA	3310.79	New sock
RW-3	07/29/08	3361.42	50.16	50.17	0.01	Pumped	0.00	20.00	3311.26	
RW-3	07/29/08	3361.42	ND	51.39	ND	NA	NA	NA	3310.03	Sock
RW-3	08/06/08	3361.42	ND	50.15	ND	Pumped	0.00	20.00	3311.27	
RW-3	08/06/08	3361.42	ND	50.81	ND	NA	NA	NA	3310.61	Sock
RW-3	08/13/08	3361.42	50.13	50.24	0.11	Pumped	0.00	5.00	3311.27	
RW-3	08/13/08	3361.42	ND	50.86	ND	NA	NA	NA	3310.56	New sock
RW-3	08/18/08	3361.42	DNG	50.86	DNG	NA	NA	NA	3310.56	Sock

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	08/27/08	3361.42	ND	50.32	ND	NA	NA	NA	3311.10	New sock
RW-3	09/02/08	3361.42	ND	50.37	ND	NA	NA	NA	3311.05	Sock
RW-3	09/09/08	3361.42	ND	50.36	ND	NA	NA	NA	3311.06	Sock
RW-3	09/16/08	3361.42	ND	50.22	ND	Pumped	0.00	10.00	3311.20	
RW-3	09/16/08	3361.42	ND	52.60	ND	NA	NA	NA	3308.82	Sock
RW-3	09/24/08	3361.42	ND	49.98	ND	Pumped	0.00	10.00	3311.44	
RW-3	09/24/08	3361.42	ND	51.92	ND	NA	NA	NA	3309.50	New sock
RW-3	10/01/08	3361.42	ND	49.72	ND	Pumped	0.00	10.00	3311.70	
RW-3	10/01/08	3361.42	ND	52.01	ND	NA	NA	NA	3309.41	Sock
RW-3	10/08/08	3361.42	50.49	50.51	0.02	Pumped	0.50	11.50	3310.93	
RW-3	10/08/08	3361.42	ND	52.25	ND	NA	NA	NA	3309.17	Sock
RW-3	10/15/08	3361.42	ND	50.14	ND	NA	NA	NA	3311.28	Sock
RW-3	10/22/08	3361.42	ND	50.09	ND	Pumped	0.00	20.00	3311.33	
RW-3	10/22/08	3361.42	ND	49.51	ND	NA	NA	NA	3311.91	
RW-3	10/29/08	3361.42	ND	50.14	ND	Pumped	0.00	10.00	3311.28	
RW-3	10/29/08	3361.42	ND	52.19	ND	NA	NA	NA	3309.23	
RW-3	11/05/08	3361.42	ND	50.06	ND	Pumped	0.00	21.00	3311.36	
RW-3	11/05/08	3361.42	ND	51.27	ND	NA	NA	NA	3310.15	
RW-3	11/12/08	3361.42	ND	49.97	ND	NA	NA	NA	3311.45	
RW-3	11/19/08	3361.42	ND	49.98	ND	Pumped	0.00	10.00	3311.44	
RW-3	11/19/08	3361.42	ND	52.16	ND	NA	NA	NA	3309.26	
RW-3	11/26/08	3361.42	49.92	50.09	0.17	Pumped	1.00	24.00	3311.47	
RW-3	11/26/08	3361.42	ND	50.06	ND	NA	NA	NA	3311.36	Sock
RW-3	12/03/08	3361.42	ND	50.13	ND	Pumped	0.00	25.00	3311.29	
RW-3	12/03/08	3361.42	ND	50.12	ND	NA	NA	NA	3311.30	
RW-3	12/10/08	3361.42	ND	50.14	ND	Pumped	0.00	30.00	3311.28	
RW-3	12/10/08	3361.42	ND	50.10	ND	NA	NA	NA	3311.32	Flipped Sock
RW-3	12/17/08	3361.42	ND	50.13	ND		0.00	25.00	3311.29	New sock
RW-3	12/17/08	3361.42	ND	50.12	ND	NA	NA	NA	3311.30	
RW-3	12/21/08	3361.42	49.95	50.10	0.15		0.25	14.75	3311.45	No Sock
RW-3	12/21/08	3361.42	ND	52.74	ND	NA	NA	NA	3308.68	
RW-3	12/31/08	3361.42	49.98	50.20	0.22		0.25	20.75	3311.41	
RW-3	12/31/08	3361.42	ND	50.23	ND	NA	NA	NA	3311.19	
RW-3	01/07/09	3361.42	49.90	50.05	0.15	Hand Bailed	0.25	9.75	3311.50	
RW-3	01/07/09	3361.42	ND	50.34	ND	NA	NA	NA	3311.08	
RW-3	01/15/09	3361.42	49.97	50.25	0.28	Pumped	0.75	14.25	3311.41	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	01/15/09	3361.42	50.10	50.14	0.04	NA	NA	NA	3311.31	
RW-3	01/22/09	3361.42	49.87	50.16	0.29	Hand Bailed	1.00	14.00	3311.51	No Sock
RW-3	01/22/09	3361.42	ND	50.06	ND	NA	NA	NA	3311.36	
RW-3	01/28/09	3361.42	49.88	50.14	0.26	Pumped	0.25	9.75	3311.50	
RW-3	01/28/09	3361.42	ND	50.02	ND	NA	NA	NA	3311.40	
RW-3	02/04/09	3361.42	49.97	50.15	0.18	Pumped	0.50	14.50	3311.42	
RW-3	02/04/09	3361.42	ND	50.35	ND	NA	NA	NA	3311.07	
RW-3	02/11/09	3361.42	49.96	50.07	0.11	Pumped	0.25	19.75	3311.44	
RW-3	02/11/09	3361.42	ND	50.11	ND	NA	NA	NA	3311.31	
RW-3	02/17/09	3361.42	49.89	50.08	0.19	Pumped	0.50	34.50	3311.50	
RW-3	02/17/09	3361.42	49.94	49.96	0.02	NA	NA	NA	3311.48	
RW-3	02/25/09	3361.42	49.94	50.11	0.17	Pumped	0.50	19.50	3311.45	
RW-3	02/25/09	3361.42	50.05	50.06	0.01	NA	NA	NA	3311.37	
RW-3	03/04/09	3361.42	49.88	50.10	0.22	Pumped	1.00	19.00	3311.51	
RW-3	03/04/09	3361.42	ND	50.13	ND	NA	NA	NA	3311.29	
RW-3	03/11/09	3361.42	50.00	50.13	0.13	Pumped	0.25	19.75	3311.40	
RW-3	03/11/09	3361.42	ND	50.35	ND	NA	NA	NA	3311.07	
RW-3	03/18/09	3361.42	49.89	50.01	0.12	Pumped	0.10	9.90	3311.51	
RW-3	03/18/09	3361.42	ND	50.16	ND	NA	NA	NA	3311.26	
RW-3	03/25/09	3361.42	ND	49.89	ND	Pumped	0.00	22.00	3311.53	
RW-3	03/25/09	3361.42	ND	51.34	ND	NA	NA	NA	3310.08	
RW-3	04/01/09	3361.42	ND	49.99	ND	NA	NA	NA	3311.43	Flipped Sock
RW-3	04/08/09	3361.42	ND	50.05	ND	Pumped	0.00	15.00	3311.37	
RW-3	04/08/09	3361.42	ND	50.20	ND	NA	NA	NA	3311.22	
RW-3	04/15/09	3361.42	ND	50.04	ND	Pumped	0.00	10.00	3311.38	
RW-3	04/15/09	3361.42	ND	51.73	ND	NA	NA	NA	3309.69	
RW-3	04/22/09	3361.42	50.13	50.14	0.01	NA	NA	NA	3311.29	
RW-3	04/29/09	3361.42	ND	50.00	ND	Pumped	0.00	10.00	3311.42	
RW-3	04/29/09	3361.42	ND	50.17	ND	NA	NA	NA	3311.25	
RW-3	05/06/09	3361.42	ND	50.01	ND	Pumped	0.00	15.00	3311.41	
RW-3	05/06/09	3361.42	ND	51.38	ND	NA	NA	NA	3310.04	
RW-3	05/14/09	3361.42	ND	50.12	ND	NA	NA	NA	3311.30	
RW-3	05/14/09	3361.42	ND	51.16	ND	Pumped	0.00	15.00	3310.26	
RW-3	05/19/09	3361.42	ND	50.06	ND	Pumped	0.00	30.00	3311.36	
RW-3	05/27/09	3361.42	ND	50.07	ND	NA	NA	NA	3311.35	
RW-3	05/27/09	3361.42	ND	51.22	ND	Pumped	0.00	15.00	3310.20	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	06/03/09	3361.42	ND	50.73	ND	NA	NA	NA	3310.69	
RW-3	06/03/09	3361.42	ND	51.43	ND	Pumped	0.00	15.00	3309.99	
RW-3	06/11/09	3361.42	ND	50.22	ND	NA	NA	NA	3311.20	
RW-3	06/11/09	3361.42	ND	51.33	ND	Pumped	0.00	15.00	3310.09	
RW-3	06/17/09	3361.42	ND	50.25	ND	NA	NA	NA	3311.17	
RW-3	06/23/09	3361.42	ND	50.31	ND	NA	NA	NA	3311.11	
RW-3	07/01/09	3361.42	ND	50.19	ND	NA	NA	NA	3311.23	Flipped Sock
RW-3	07/07/09	3361.42	ND	50.19	ND	NA	NA	NA	3311.23	Flipped Sock
RW-3	07/07/09	3361.42	ND	50.13	ND	NA	NA	NA	3311.29	
RW-3	07/15/09	3361.42	50.13	50.15	0.02	NA	NA	NA	3311.29	New sock
RW-3	07/29/09	3361.42	ND	50.22	ND	NA	NA	NA	3311.20	Flipped Sock
RW-3	08/05/09	3361.42	ND	50.18	ND	NA	NA	NA	3311.24	New Sock
RW-3	08/12/09	3361.42	ND	50.15	ND	NA	NA	NA	3311.27	
RW-3	08/19/09	3361.42	50.13	50.15	0.02	Pumped	0.25	9.75	3311.29	Flipped Sock
RW-3	08/19/09	3361.42	ND	52.50	ND	NA	NA	NA	3308.92	
RW-3	08/26/09	3361.42	50.29	50.33	0.04	NA	NA	NA	3311.12	
RW-3	09/02/09	3361.42	50.10	50.18	0.08	Pumped	0.25	9.75	3311.31	
RW-3	09/02/09	3361.42	ND	52.58	ND	NA	NA	NA	3308.84	
RW-3	09/09/09	3361.42	ND	50.21	ND	Pumped	0.10	9.90	3311.21	
RW-3	09/09/09	3361.42	ND	51.49	ND	NA	NA	NA	3309.93	
RW-3	09/16/09	3361.42	ND	50.28	ND	NA	NA	NA	3311.14	
RW-3	09/23/09	3361.42	50.15	50.20	0.05	Pumped	0.25	19.75	3311.26	
RW-3	09/23/09	3361.42	ND	51.73	ND	NA	NA	NA	3309.69	New Sock
RW-3	09/30/09	3361.42	ND	50.28	ND	NA	NA	NA	3311.14	
RW-3	10/07/09	3361.42	ND	50.34	ND	Pumped	0.00	10.00	3311.08	Flipped Sock
RW-3	10/07/09	3361.42	ND	51.02	ND	NA	NA	NA	3310.40	
RW-3	10/14/09	3361.42	ND	50.35	ND	Pumped	0.00	10.00	3311.07	New Sock
RW-3	10/14/09	3361.42	ND	52.16	ND	NA	NA	NA	3309.26	
RW-3	10/21/09	3361.42	ND	50.36	ND	NA	NA	NA	3311.06	
RW-3	10/28/09	3361.42	ND	50.69	ND	Pumped	0.00	20.00	3310.73	
RW-3	10/28/09	3361.42	ND	51.80	ND	NA	NA	NA	3309.62	
RW-3	11/04/09	3361.42	50.21	50.26	0.05	Pumped	0.10	9.90	3311.20	
RW-3	11/04/09	3361.42	ND	50.75	ND	NA	NA	NA	3310.67	
RW-3	11/11/09	3361.42	50.20	50.27	0.07	Pumped	0.10	9.90	3311.21	
RW-3	11/11/09	3361.42	ND	51.29	ND	NA	NA	NA	3310.13	
RW-3	11/18/09	3361.42	50.13	50.23	0.10	Pumped	0.10	19.90	3311.28	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	11/18/09	3361.42	ND	51.69	ND	NA	NA	NA	3309.73	
RW-3	11/25/09	3361.42	50.20	50.29	0.09	Pumped	0.10	9.90	3311.21	
RW-3	11/25/09	3361.42	ND	51.20	ND	NA	NA	NA	3310.22	
RW-3	12/02/09	3361.42	50.19	50.26	0.07	Pumped	0.10	9.90	3311.22	
RW-3	12/02/09	3361.42	ND	51.85	ND	NA	NA	NA	3309.57	
RW-3	12/09/09	3361.42	50.20	50.33	0.13	Pumped	0.10	9.90	3311.20	
RW-3	12/09/09	3361.42	ND	52.01	ND	NA	NA	NA	3309.41	
RW-3	12/16/09	3361.42	50.24	50.37	0.13	Pumped	0.10	9.90	3311.16	
RW-3	12/16/09	3361.42	ND	51.93	ND	NA	NA	NA	3309.49	
RW-3	12/23/09	3361.42	50.15	50.20	0.05	Pumped	0.10	14.90	3311.26	
RW-3	12/23/09	3361.42	ND	50.85	ND	NA	NA	NA	3310.57	
RW-3	12/30/09	3361.42	50.16	50.23	0.07	Pumped	0.10	9.90	3311.25	
RW-3	12/30/09	3361.42	ND	51.34	ND	NA	NA	NA	3310.08	
RW-3	01/06/10	3361.42	50.15	50.21	0.06	Pumped	0.10	9.90	3311.26	
RW-3	01/06/10	3361.42	ND	50.96	ND	NA	NA	NA	3310.46	
RW-3	01/13/10	3361.42	50.17	50.22	0.05	Pumped	0.10	9.90	3311.24	
RW-3	01/13/10	3361.42	ND	51.17	ND	NA	NA	NA	3310.25	
RW-3	01/20/10	3361.42	50.08	50.12	0.04	Pumped	0.10	19.90	3311.33	
RW-3	01/20/10	3361.42	ND	51.00	ND	NA	NA	NA	3310.42	
RW-3	01/27/10	3361.42	50.18	50.26	0.08	Pumped	0.10	9.90	3311.23	
RW-3	01/27/10	3361.42	ND	51.15	ND	NA	NA	NA	3310.27	
RW-3	02/11/10	3361.42	50.13	50.20	0.07	Pumped	0.10	9.90	3311.28	
RW-3	02/11/10	3361.42	ND	51.22	ND	NA	NA	NA	3310.20	
RW-3	02/17/10	3361.42	50.15	50.21	0.06	Pumped	0.10	9.90	3311.26	
RW-3	02/17/10	3361.42	ND	51.51	ND	NA	NA	NA	3309.91	
RW-3	03/10/10	3361.42	50.02	50.08	0.06	Pumped	0.10	9.90	3311.39	
RW-3	03/10/10	3361.42	ND	50.91	ND	NA	NA	NA	3310.51	
RW-3	03/17/10	3361.42	50.10	50.22	0.12	Pumped	0.10	14.90	3311.30	
RW-3	03/17/10	3361.42	ND	51.05	ND	NA	NA	NA	3310.37	
RW-3	03/24/10	3361.42	50.05	50.14	0.09	Pumped	0.10	9.90	3311.36	
RW-3	03/24/10	3361.42	ND	51.10	ND	NA	NA	NA	3310.32	
RW-3	03/31/10	3361.42	50.00	50.07	0.07	NA	NA	NA	3311.41	
RW-3	04/07/10	3361.42	50.06	50.15	0.09	Pumped	0.10	9.90	3311.35	
RW-3	04/07/10	3361.42	ND	53.80	ND	NA	NA	NA	3307.62	
RW-3	04/14/10	3361.42	50.02	50.06	0.04	NA	NA	NA	3311.39	
RW-3	04/21/10	3361.42	49.94	49.99	0.05	Pumped	0.10	9.90	3311.47	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	04/21/10	3361.42	ND	50.84	ND	NA	NA	NA	3310.58	
RW-3	04/28/10	3361.42	49.98	50.05	0.07	Pumped	0.10	9.90	3311.43	
RW-3	04/28/10	3361.42	ND	50.92	ND	NA	NA	NA	3310.50	
RW-3	04/28/10	3361.42	49.98	50.05	0.07	Pumped	0.10	9.90	3311.43	
RW-3	04/28/10	3361.42	ND	50.92	ND	NA	NA	NA	3310.50	
RW-3	05/05/10	3361.42	50.03	50.06	0.03	Hand Bailed	0.10	9.90	3311.39	
RW-3	05/05/10	3361.42	ND	50.51	ND	NA	NA	NA	3310.91	
RW-3	05/11/10	3361.42	49.96	50.10	0.14		0.10	26.90	3311.44	
RW-3	05/11/10	3361.42	ND	51.01	ND	NA	NA	NA	3310.41	
RW-3	05/19/10	3361.42	50.04	50.10	0.06	Pumped	0.10	26.90	3311.37	
RW-3	05/19/10	3361.42	ND	51.19	ND	NA	NA	NA	3310.23	
RW-3	05/29/10	3361.42	50.02	50.12	0.10	Pumped	0.10	9.90	3311.39	
RW-3	05/29/10	3361.42	ND	51.20	ND	NA	NA	NA	3310.22	
RW-3	06/02/10	3361.42	50.01	50.09	0.08	Pumped	0.10	9.90	3311.40	
RW-3	06/02/10	3361.42	ND	51.48	ND	NA	NA	NA	3309.94	
RW-3	06/12/10	3361.42	50.08	50.12	0.04	Pumped	0.10	9.90	3311.33	
RW-3	06/12/10	3361.42	ND	51.30	ND	NA	NA	NA	3310.12	
RW-3	06/15/10	3361.42	50.00	50.07	0.07	Pumped	0.10	9.90	3311.41	
RW-3	06/15/10	3361.42	ND	51.80	ND	NA	NA	NA	3309.62	
RW-3	06/25/10	3361.42	50.04	50.10	0.06	NA	NA	NA	3311.37	
RW-3	07/07/10	3361.42	50.06	50.12	0.06	NA	NA	NA	3311.35	
RW-3	07/14/10	3361.42	50.06	50.11	0.05	NA	NA	NA	3311.35	
RW-3	07/21/10	3361.42	50.07	50.13	0.06	Pumped	0.10	9.90	3311.34	
RW-3	07/21/10	3361.42	ND	51.14	ND	NA	NA	NA	3310.28	
RW-3	07/28/10	3361.42	ND	50.05	ND	NA	NA	NA	3311.37	
RW-3	08/03/10	3361.42	50.02	50.03	0.01	NA	NA	NA	3311.40	
RW-3	08/11/10	3361.42	50.03	50.10	0.07	NA	NA	NA	3311.38	
RW-3	08/18/10	3361.42	50.03	50.09	0.06	Pumped	0.10	9.90	3311.38	
RW-3	08/18/10	3361.42	ND	52.70	ND	NA	NA	NA	3308.72	
RW-3	08/25/10	3361.42	50.06	50.11	0.05	Pumped	0.10	9.90	3311.35	
RW-3	08/25/10	3361.42	ND	52.42	ND	NA	NA	NA	3309.00	
RW-3	09/01/10	3361.42	49.98	50.03	0.05	NA	NA	NA	3311.43	
RW-3	09/08/10	3361.42	50.05	50.10	0.05	NA	NA	NA	3311.36	
RW-3	09/15/10	3361.42	50.04	50.09	0.05	Pumped	0.10	4.90	3311.37	
RW-3	09/15/10	3361.42	ND	52.08	ND	NA	NA	NA	3309.34	
RW-3	09/21/10	3361.42	49.99	50.02	0.03	NA	NA	NA	3311.43	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	10/01/10	3361.42	50.09	50.12	0.03	NA	NA	NA	3311.33	
RW-3	10/06/10	3361.42	50.10	50.13	0.03	Pumped	0.10	9.90	3311.32	
RW-3	10/06/10	3361.42	ND	51.08	ND	NA	NA	NA	3310.34	
RW-3	10/13/10	3361.42	50.09	50.16	0.07	Pumped	0.10	9.90	3311.32	
RW-3	10/13/10	3361.42	ND	51.67	ND	NA	NA	NA	3309.75	
RW-3	10/22/10	3361.42	50.01	50.08	0.07	NA	NA	NA	3311.40	
RW-3	10/27/10	3361.42	49.98	50.06	0.08	NA	NA	NA	3311.43	
RW-3	11/03/10	3361.42	50.06	50.18	0.12	Pumped	0.10	9.90	3311.34	
RW-3	11/03/10	3361.42	51.23	51.24	0.01	NA	NA	NA	3310.19	
RW-3	11/10/10	3361.42	49.91	49.99	0.08	NA	NA	NA	3311.50	
RW-3	11/16/10	3361.42	50.01	50.08	0.07	Pumped	0.10	9.90	3311.40	
RW-3	11/16/10	3361.42	51.43	51.44	0.01	NA	NA	NA	3309.99	
RW-3	11/23/10	3361.42	49.93	50.03	0.10	Pumped	0.10	9.90	3311.48	
RW-3	11/23/10	3361.42	ND	51.70	ND	NA	NA	NA	3309.72	
RW-3	12/01/10	3361.42	49.89	49.90	0.01	NA	NA	NA	3311.53	
RW-3	12/08/10	3361.42	49.98	50.05	0.07	Pumped	0.10	9.90	3311.43	
RW-3	12/08/10	3361.42	ND	52.94	ND	NA	NA	NA	3308.48	
RW-3	12/15/10	3361.42	49.84	49.90	0.06	Pumped	0.10	9.90	3311.57	
RW-3	12/15/10	3361.42	ND	51.68	ND	NA	NA	NA	3309.74	
RW-3	12/21/10	3361.42	49.94	49.97	0.03	Pumped	0.10	9.90	3311.48	
RW-3	12/21/10	3361.42	ND	51.02	ND	NA	NA	NA	3310.40	
RW-3	12/28/10	3361.42	DNG	DNG	DNG	Pumped	0.10	9.90	DNG	
RW-3	01/08/11	3361.93	49.88	49.90	0.02	NA	N/A	N/A	3312.05	
RW-3	01/12/11	3361.93	49.97	50.03	0.06		0.10	9.90	3311.95	
RW-3	01/12/11	3361.93	ND	50.83	ND	NA	NA	NA	3311.10	
RW-3	01/19/11	3361.93	49.83	49.93	0.10		0.10	9.90	3312.09	
RW-3	01/19/11	3361.93	ND	50.89	ND	NA	NA	NA	3311.04	
RW-3	01/25/11	3361.93	49.91	49.98	0.07		0.20	9.80	3312.01	
RW-3	01/25/11	3361.93	ND	50.24	ND	NA	NA	NA	3311.69	
RW-3	02/04/11	3361.93	49.86	49.90	0.04	NA	NA	NA	3312.06	
RW-3	02/08/11	3361.93	49.80	49.84	0.04		0.10	9.90	3312.12	
RW-3	02/08/11	3361.93	ND	51.92	ND	NA	NA	NA	3310.01	
RW-3	02/16/11	3361.93	49.83	49.90	0.07		0.10	9.90	3312.09	
RW-3	02/16/11	3361.93	ND	50.40	ND	NA	NA	NA	3311.53	
RW-3	02/23/11	3361.93	49.85	49.89	0.04		0.10	9.90	3312.07	
RW-3	02/23/11	3361.93	ND	51.54	ND	NA	NA	NA	3310.39	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	03/02/11	3361.93	49.86	49.92	0.06		0.00	10.00	3312.06	
RW-3	03/02/11	3361.93	ND	51.00	ND	NA	NA	NA	3310.93	
RW-3	03/08/11	3361.93	49.83	49.85	0.02	Hand Bailed	0.10	4.90	3312.10	
RW-3	03/08/11	3361.93	ND	50.91	ND	NA	NA	NA	3311.02	
RW-3	03/16/11	3361.93	49.87	50.00	0.13		0.10	4.90	3312.04	
RW-3	03/16/11	3361.93	ND	51.02	ND	NA	NA	NA	3310.91	
RW-3	03/23/11	3361.93	49.90	50.02	0.12		0.10	4.90	3312.01	
RW-3	03/23/11	3361.93	ND	50.36	ND	NA	NA	NA	3311.57	
RW-3	03/30/11	3361.93	49.85	49.95	0.10		0.10	9.90	3312.07	
RW-3	03/30/11	3361.93	ND	50.33	ND	NA	NA	NA	3311.60	
RW-3	04/08/11	3361.93	49.82	49.88	0.06	NA	NA	NA	3312.10	recovery pump failed
RW-3	04/13/11	3361.93	49.79	49.84	0.05		0.10	4.90	3312.13	
RW-3	04/13/11	3361.93	ND	50.80	ND	NA	NA	NA	3311.13	
RW-3	04/20/11	3361.93	49.87	49.92	0.05	Hand Bailed	0.10	4.90	3312.05	
RW-3	04/20/11	3361.93	ND	50.52	ND	NA	NA	NA	3311.41	
RW-3	04/27/11	3361.93	49.93	49.95	0.02	Pumped	0.10	9.90	3312.00	
RW-3	04/27/11	3361.93	ND	51.93	ND	NA	NA	NA	3310.00	
RW-3	05/04/11	3361.93	49.83	49.95	0.12		0.10	9.90	3312.08	
RW-3	05/04/11	3361.93	ND	51.83	ND	NA	NA	NA	3310.10	
RW-3	05/11/11	3361.93	49.80	49.84	0.04		0.10	0.00	3312.12	
RW-3	05/11/11	3361.93	ND	51.25	ND	NA	NA	NA	3310.68	
RW-3	05/19/11	3361.93	49.80	49.84	0.04		0.10	0.00	3312.12	
RW-3	05/19/11	3361.93	ND	51.41	ND	NA	NA	NA	3310.52	
RW-3	05/24/11	3361.93	49.80	49.85	0.05		0.10	9.90	3312.12	
RW-3	05/24/11	3361.93	ND	51.44	ND	NA	NA	NA	3310.49	
RW-3	06/01/11	3361.93	50.00	50.05	0.05	NA	NA	NA	3311.92	Sampled
RW-3	06/08/11	3361.93	49.92	49.96	0.04		0.10	9.90	3312.00	
RW-3	06/08/11	3361.93	ND	50.76	ND	NA	NA	NA	3311.17	
RW-3	06/17/11	3361.93	49.85	49.95	0.10		0.00	10.00	3312.07	
RW-3	06/17/11	3361.93	ND	51.06	ND	NA	NA	NA	3310.87	
RW-3	06/21/11	3361.93	49.86	50.00	0.14		0.10	9.90	3312.05	
RW-3	06/21/11	3361.93	ND	51.67	ND	NA	NA	NA	3310.26	
RW-3	06/29/11	3361.93	50.00	50.10	0.10		0.10	9.90	3311.92	
RW-3	06/29/11	3361.93	ND	50.15	ND	NA	NA	NA	3311.78	
RW-3	07/06/11	3361.93	50.03	50.08	0.05		0.10	4.90	3311.89	
RW-3	07/06/11	3361.93	ND	50.42	ND	NA	NA	NA	3311.51	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	07/13/11	3361.93	50.02	50.09	0.07		0.10	4.90	3311.90	
RW-3	07/13/11	3361.93	ND	51.43	ND	NA	NA	NA	3310.50	
RW-3	07/20/11	3361.93	50.03	50.08	0.05		0.10	4.90	3311.89	
RW-3	07/20/11	3361.93	ND	50.52	ND	NA	NA	NA	3311.41	
RW-3	07/27/11	3361.93	50.00	50.08	0.08		0.10	9.90	3311.92	
RW-3	07/27/11	3361.93	ND	50.58	ND	NA	NA	NA	3311.35	
RW-3	08/03/11	3361.93	50.04	50.24	0.20		0.10	4.90	3311.86	
RW-3	08/03/11	3361.93	ND	50.88	ND	NA	NA	NA	3311.05	
RW-3	08/11/11	3361.93	50.06	50.21	0.15	Hand Bailed	0.10	4.90	3311.85	
RW-3	08/11/11	3361.93	ND	50.70	ND	NA	NA	NA	3311.23	
RW-3	08/16/11	3361.93	50.02	50.20	0.18		0.10	9.90	3311.88	
RW-3	08/16/11	3361.93	ND	51.03	ND	NA	NA	NA	3310.90	
RW-3	08/24/11	3361.93	50.08	50.26	0.18		0.20	9.80	3311.82	
RW-3	08/24/11	3361.93	ND	51.27	ND	NA	NA	NA	3310.66	
RW-3	08/30/11	3361.93	50.07	50.17	0.10		0.10	4.90	3311.85	
RW-3	08/30/11	3361.93	ND	50.83	ND	NA	NA	NA	3311.10	
RW-3	09/07/11	3361.93	50.12	50.25	0.13		0.10	4.90	3311.79	
RW-3	09/07/11	3361.93	ND	50.32	ND	NA	NA	NA	3311.61	
RW-3	09/14/11	3361.93	50.10	50.21	0.11		0.10	4.90	3311.81	
RW-3	09/14/11	3361.93	ND	50.79	ND	NA	NA	NA	3311.14	
RW-3	09/21/11	3361.93	50.12	50.30	0.18		0.10	4.90	3311.78	
RW-3	09/21/11	3361.93	ND	50.78	ND	NA	NA	NA	3311.15	
RW-3	09/28/11	3361.93	50.09	50.39	0.30		0.10	4.90	3311.80	
RW-3	09/28/11	3361.93	ND	50.35	ND	NA	NA	NA	3311.58	
RW-3	10/05/11	3361.93	50.08	50.38	0.30	Pumped	<.25	10.00	3311.81	Clear at 4 gal
RW-3	10/05/11	3361.93	ND	50.31	ND	NA	NA	NA	3311.62	
RW-3	10/12/11	3361.93	50.11	50.21	0.10		0.10	9.90	3311.81	
RW-3	10/12/11	3361.93	ND	50.96	ND	NA	NA	NA	3310.97	
RW-3	10/18/11	3361.93	50.20	50.28	0.08		0.10	9.90	3311.72	Clear at 3 gal
RW-3	10/18/11	3361.93	ND	51.43	ND	NA	NA	NA	3310.50	
RW-3	10/28/11	3361.93	50.19	50.30	0.11		0.10	9.90	3311.72	Clear at 2 gal
RW-3	10/28/11	3361.93	ND	52.24	ND	NA	NA	NA	3309.69	
RW-3	11/02/11	3361.93	50.13	50.23	0.10		0.10	4.90	3311.79	Clear at 3 gal
RW-3	11/02/11	3361.93	ND	51.83	ND	NA	NA	NA	3310.10	
RW-3	11/09/11	3361.93	50.21	50.34	0.13		0.10	9.90	3311.70	
RW-3	11/09/11	3361.93	ND	51.09	ND	NA	NA	NA	3310.84	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	11/18/11	3361.93	50.07	50.21	0.14		<.25	5.00	3311.84	
RW-3	11/18/11	3361.93	ND	50.56	ND	NA	NA	NA	3311.37	
RW-3	11/23/11	3361.93	50.16	50.33	0.17	NA	NA	NA	3311.74	
RW-3	11/28/11	3361.93	50.06	50.30	0.24	NA	NA	NA	3311.83	
RW-3	12/13/11	3361.93	50.08	50.43	0.35		0.10	4.90	3311.80	
RW-3	12/13/11	3361.93	ND	50.87	ND	NA	NA	NA	3311.06	
RW-3	12/20/11	3361.93	50.16	50.32	0.16		0.10	4.90	3311.75	
RW-3	12/20/11	3361.93	ND	50.74	ND	NA	NA	NA	3311.19	
RW-3	12/27/11	3361.93	50.18	50.22	0.04	NA	NA	NA	3311.74	
RW-3	01/04/12	3361.93	50.06	50.32	0.26	Hand Bailed	0.10	5.00	3311.83	
RW-3	01/04/12	3361.93	ND	50.80	ND	NA	NA	NA	3311.13	
RW-3	01/13/12	3361.93	50.12	50.20	0.08	NA	NA	NA	3311.80	
RW-3	01/18/12	3361.93	50.14	50.34	0.20	Pumped	0.10	9.90	3311.76	
RW-3	01/18/12	3361.93	ND	52.05	ND	NA	NA	NA	3309.88	
RW-3	01/27/12	3361.93	50.10	50.15	0.05	NA	NA	NA	3311.82	
RW-3	02/02/12	3361.93	50.09	50.20	0.11		0.10	14.90	3311.82	
RW-3	02/02/12	3361.93	ND	51.96	ND	NA	NA	NA	3309.97	
RW-3	02/08/12	3361.93	50.15	50.28	0.13		0.10	9.90	3311.76	
RW-3	02/08/12	3361.93	ND	51.51	ND	NA	NA	NA	3310.42	
RW-3	02/15/12	3361.93	50.11	50.16	0.05		0.10	4.90	3311.81	
RW-3	02/15/12	3361.93	ND	51.45	ND	NA	NA	NA	3310.48	
RW-3	02/22/12	3361.93	50.03	50.15	0.12	NA	NA	NA	3311.88	
RW-3	02/29/12	3361.93	50.11	50.33	0.22		0.10	4.90	3311.79	
RW-3	02/29/12	3361.93	ND	51.20	ND	NA	NA	NA	3310.73	
RW-3	03/06/12	3361.93	50.05	50.20	0.15		0.10	4.90	3311.86	
RW-3	03/06/12	3361.93	ND	51.87	ND	NA	NA	NA	3310.06	
RW-3	03/14/12	3361.93	56.08	56.32	0.24	NA	NA	NA	3305.81	
RW-3	03/21/12	3361.93	49.93	50.25	0.32		0.10	4.90	3311.95	
RW-3	03/21/12	3361.93	ND	51.03	ND	NA	NA	NA	3310.90	
RW-3	03/29/12	3361.93	49.96	50.42	0.46		0.50	10.00	3311.90	
RW-3	03/29/12	3361.93	ND	51.09	ND	NA	NA	NA	3310.84	
RW-3	04/03/12	3361.93	49.99	50.53	0.54		0.50	9.50	3311.86	
RW-3	04/03/12	3361.93	ND	51.66	ND	NA	NA	NA	3310.27	
RW-3	04/11/12	3361.93	49.90	50.29	0.39		0.10	9.90	3311.97	
RW-3	04/11/12	3361.93	ND	51.52	ND	NA	NA	NA	3310.41	
RW-3	04/20/12	3361.93	50.02	50.54	0.52		0.10	9.90	3311.83	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS

Plains Marketing, L.P.

Vacuum to Jal Mainline #5

SRS #2003-00134

Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	04/20/12	3361.93	ND	50.10	ND	NA	NA	NA	3311.83	
RW-3	04/26/12	3361.93	49.98	50.40	0.42		1.00	4.00	3311.89	
RW-3	04/26/12	3361.93	ND	51.00	ND	NA	NA	NA	3310.93	
RW-3	05/02/12	3361.93	50.02	50.28	0.26		0.10	9.90	3311.87	
RW-3	05/02/12	3361.93	ND	50.80	ND	NA	NA	NA	3311.13	
RW-3	05/09/12	3361.93	50.06	50.18	0.12		0.10	9.90	3311.85	
RW-3	05/09/12	3361.93	ND	51.78	ND	NA	NA	NA	3310.15	
RW-3	05/22/12	3361.93	49.99	50.26	0.27	NA	NA	NA	3311.90	Sampled
RW-3	05/29/12	3361.93	49.99	50.20	0.21		0.10	9.90	3311.91	
RW-3	05/29/12	3361.93	ND	51.26	ND	NA	NA	NA	3310.67	
RW-3	06/06/12	3361.93	49.98	50.20	0.22		0.10	9.90	3311.92	
RW-3	06/06/12	3361.93	ND	52.00	ND	NA	NA	NA	3309.93	
RW-3	06/13/12	3361.93	49.95	50.22	0.27		0.10	9.90	3311.94	
RW-3	06/13/12	3361.93	ND	51.63	ND	NA	NA	NA	3310.30	
RW-3	06/19/12	3361.93	49.92	50.27	0.35		0.10	9.90	3311.96	
RW-3	06/19/12	3361.93	ND	50.30	ND	NA	NA	NA	3311.63	
RW-3	07/05/12	3361.93	ND	50.05	ND	NA	0.10	10.00	3311.88	
RW-3	07/05/12	3361.93	ND	51.63	ND	NA	NA	NA	3310.30	
RW-3	07/11/12	3361.93	50.05	50.12	0.07	NA	0.10	10.00	3311.87	
RW-3	07/11/12	3361.93	ND	50.82	ND	NA	NA	NA	3311.11	
RW-3	07/18/12	3361.93	50.09	50.20	0.11	NA	NA	10.00	3311.82	
RW-3	07/18/12	3361.93	ND	51.30	ND	NA	NA	NA	3310.63	
RW-3	07/25/12	3361.93	50.07	50.20	0.13	NA	0.125	10.00	3311.84	
RW-3	07/25/12	3361.93	ND	50.93	ND	NA	NA	NA	3311.00	
RW-3	07/31/12	3361.93	50.08	50.22	0.14	NA	0.10	10.00	3311.83	
RW-3	07/31/12	3361.93	ND	50.50	ND	NA	NA	NA	3311.43	
RW-3	08/08/12	3361.93	50.10	50.31	0.21	NA	NA	NA	3311.80	
RW-3	08/13/12	3361.93	50.07	50.25	0.18	NA	0.10	10.00	3311.83	
RW-3	08/13/12	3361.93	ND	50.91	ND	NA	NA	NA	3311.02	
RW-3	09/05/12	3361.93	50.16	50.30	0.14	NA	0.10	10.00	3311.75	
RW-3	09/11/12	3361.93	50.04	50.45	0.41	NA	0.10	10.00	3311.83	
RW-3	09/19/12	3361.93	50.13	50.58	0.45	NA	0.10	10.00	3311.73	
RW-3	09/19/12	3361.93	ND	51.81	ND	NA	0.10	10.00	3310.12	
RW-3	09/25/12	3361.93	50.12	50.33	0.21	NA	0.10	10.00	3311.78	
RW-3	09/25/12	3361.93	ND	51.76	ND	NA	NA	NA	3310.17	
RW-3	10/03/12	3361.93	50.18	50.44	0.26	NA	0.10	10.00	3311.71	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-3	10/03/12	3361.93	ND	51.32	ND	NA	NA	NA	3310.61	
RW-3	10/24/12	3361.93	50.12	50.40	0.28	NA	0.10	10.00	3311.77	
RW-3	10/24/12	3361.93	ND	52.21	ND	NA	NA	NA	3309.72	
RW-3	10/30/12	3361.93	50.17	50.35	0.18	NA	0.10	10.00	3311.73	
RW-3	10/30/12	3361.93	ND	52.28	ND	NA	NA	NA	3309.65	
RW-3	11/06/12	3361.93	50.19	50.29	0.10	NA	0.10	10.00	3311.73	
RW-3	11/06/12	3361.93	ND	52.28	ND	NA	NA	NA	3309.65	
RW-3	11/13/12	3361.93	50.21	50.39	0.18	NA	0.10	10.00	3311.69	
RW-3	11/13/12	3361.93	ND	51.88	ND	NA	NA	NA	3310.05	
RW-3	11/26/12	3361.93	50.18	50.53	0.35	NA	NA	NA	3311.70	
RW-3	12/05/12	3361.93	50.16	50.64	0.48	NA	NA	NA	3311.70	
RW-3	12/11/12	3361.93	50.18	50.40	0.22	NA	NA	NA	3311.72	
RW-4	12/06/06	3363.23	ND	49.80	ND	NA	NA	NA	3313.43	Sampled
RW-4	12/13/06	3363.23	ND	49.83	ND	NA	NA	NA	3313.40	
RW-4	12/27/06	3363.23	ND	49.63	ND	NA	NA	NA	3313.60	
RW-4	01/03/07	3363.23	ND	49.78	ND	NA	NA	NA	3313.45	
RW-4	01/09/07	3363.23	ND	49.78	ND	NA	NA	NA	3313.45	
RW-4	01/18/07	3363.23	ND	49.65	ND	NA	NA	NA	3313.58	
RW-4	01/22/07	3363.23	ND	49.59	ND	NA	NA	NA	3313.64	
RW-4	02/01/07	3363.23	ND	49.54	ND	NA	NA	NA	3313.69	
RW-4	02/07/07	3363.23	ND	49.68	ND	NA	NA	NA	3313.55	
RW-4	02/14/07	3363.23	ND	49.66	ND	NA	NA	NA	3313.57	
RW-4	02/21/07	3363.23	ND	49.68	ND	NA	NA	NA	3313.55	
RW-4	02/28/07	3363.23	ND	49.53	ND	NA	NA	NA	3313.70	Sampled
RW-4	03/07/07	3363.23	ND	49.62	ND	NA	NA	NA	3313.61	
RW-4	04/03/07	3363.23	ND	49.57	ND	NA	NA	NA	3313.66	
RW-4	05/03/07	3363.23	ND	49.46	ND	NA	NA	NA	3313.77	
RW-4	05/30/07	3363.23	ND	49.52	ND	NA	NA	NA	3313.71	Sampled
RW-4	06/06/07	3363.23	ND	49.43	ND	NA	NA	NA	3313.80	
RW-4	07/05/07	3363.23	ND	49.43	ND	NA	NA	NA	3313.80	
RW-4	07/31/07	3363.23	ND	49.47	ND	NA	NA	NA	3313.76	
RW-4	09/06/07	3363.23	ND	49.43	ND	NA	NA	NA	3313.80	Sampled
RW-4	10/10/07	3363.23	ND	49.49	ND	NA	NA	NA	3313.74	
RW-4	11/13/07	3363.23	ND	49.55	ND	NA	NA	NA	3313.68	Sampled
RW-4	12/27/07	3363.23	ND	49.51	ND	NA	NA	NA	3313.72	

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Plains Marketing, L.P.
Vacuum to Jal Mainline #5
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Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-4	01/09/08	3363.23	ND	49.46	ND	NA	NA	NA	3313.77	
RW-4	02/06/08	3363.23	ND	49.48	ND	NA	NA	NA	3313.75	
RW-4	02/27/08	3363.23	ND	49.61	ND	NA	NA	NA	3313.62	Sampled
RW-4	04/02/08	3363.23	ND	49.40	ND	NA	NA	NA	3313.83	
RW-4	05/28/08	3363.23	ND	49.58	ND	NA	NA	NA	3313.65	Sampled
RW-4	06/18/08	3363.23	ND	49.64	ND	NA	NA	NA	3313.59	
RW-4	07/07/08	3363.23	ND	49.62	ND	NA	NA	NA	3313.61	
RW-4	08/18/08	3363.23	ND	49.62	ND	NA	NA	NA	3313.61	Sampled
RW-4	10/29/08	3363.23	ND	49.72	ND	NA	NA	NA	3313.51	
RW-4	11/19/08	3363.23	ND	49.74	ND	NA	NA	NA	3313.49	Sampled
RW-4	12/21/08	3363.23	ND	49.78	ND	NA	NA	NA	3313.45	
RW-4	01/07/09	3363.23	ND	49.61	ND	NA	NA	NA	3313.62	
RW-4	02/04/09	3363.23	ND	49.71	ND	NA	NA	NA	3313.52	
RW-4	02/17/09	3363.23	ND	49.71	ND	NA	NA	NA	3313.52	Sampled
RW-4	03/04/09	3363.23	ND	49.68	ND	NA	NA	NA	3313.55	
RW-4	04/08/09	3363.23	ND	49.68	ND	NA	NA	NA	3313.55	
RW-4	04/08/09	3363.23	ND	49.71	ND	NA	NA	NA	3313.52	
RW-4	05/06/09	3363.23	ND	49.73	ND	NA	NA	NA	3313.50	
RW-4	05/19/09	3363.23	ND	49.80	ND	NA	NA	NA	3313.43	Sampled
RW-4	06/03/09	3363.23	ND	49.79	ND	NA	NA	NA	3313.44	
RW-4	07/15/09	3363.23	ND	49.83	ND	NA	NA	NA	3313.40	
RW-4	08/05/09	3363.23	ND	49.86	ND	NA	NA	NA	3313.37	
RW-4	08/26/09	3363.23	ND	49.90	ND	NA	NA	NA	3313.33	Sampled
RW-4	09/02/09	3363.23	ND	49.88	ND	NA	NA	NA	3313.35	
RW-4	10/07/09	3363.23	ND	49.89	ND	NA	NA	NA	3313.34	
RW-4	11/18/09	3363.23	ND	49.92	ND	NA	NA	NA	3313.31	Sampled
RW-4	12/02/09	3363.23	ND	49.97	ND	NA	NA	NA	3313.26	
RW-4	01/06/10	3363.22	ND	49.86	ND	NA	NA	NA	3313.36	
RW-4	02/11/10	3363.22	ND	49.90	ND	NA	NA	NA	3313.32	Sampled
RW-4	03/10/10	3363.22	ND	49.79	ND	NA	NA	NA	3313.43	
RW-4	04/07/10	3363.22	ND	49.85	ND	NA	NA	NA	3313.37	
RW-4	05/11/10	3363.22	ND	49.74	ND	NA	NA	NA	3313.48	Sampled
RW-4	06/02/10	3363.22	ND	49.74	ND	NA	NA	NA	3313.48	
RW-4	07/07/10	3363.22	ND	49.76	ND	NA	NA	NA	3313.46	
RW-4	08/03/10	3363.22	ND	49.77	ND	NA	NA	NA	3313.45	
RW-4	08/26/10	3363.22	ND	49.68	ND	NA	NA	NA	3313.54	Sampled

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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-4	09/01/10	3363.22	ND	49.68	ND	NA	NA	NA	3313.54	
RW-4	10/13/10	3363.22	ND	49.81	ND	NA	NA	NA	3313.41	
RW-4	11/18/10	3363.22	ND	49.76	ND	NA	NA	NA	3313.46	Sampled
RW-4	11/23/10	3363.22	ND	49.74	ND	NA	NA	NA	3313.48	
RW-4	12/08/10	3363.22	ND	49.78	ND	NA	NA	NA	3313.44	
RW-4	01/12/11	3363.22	ND	49.77	ND	NA	NA	NA	3313.45	
RW-4	02/08/11	3363.22	ND	49.64	ND	NA	NA	NA	3313.58	
RW-4	02/23/11	3363.22	ND	49.56	ND	NA	NA	NA	3313.66	Sampled
RW-4	03/08/11	3363.22	ND	49.86	ND	NA	NA	NA	3313.36	
RW-4	04/13/11	3363.22	ND	49.63	ND	NA	NA	NA	3313.59	
RW-4	06/01/11	3363.22	ND	49.71	ND	NA	NA	NA	3313.51	Sampled
RW-4	07/27/11	3363.22	ND	49.53	ND	NA	NA	NA	3313.69	
RW-4	08/30/11	3363.22	ND	49.82	ND	NA	NA	NA	3313.40	Sampled
RW-4	09/14/11	3363.22	ND	49.80	ND	NA	NA	NA	3313.42	
RW-4	10/12/11	3363.22	ND	49.87	ND	NA	NA	NA	3313.35	
RW-4	11/28/11	3363.22	ND	49.84	ND	NA	NA	NA	3313.38	Sampled
RW-4	12/27/11	3363.22	ND	49.84	ND	NA	NA	NA	3313.38	
RW-4	01/18/12	3363.22	ND	49.88	ND	NA	NA	NA	3313.34	
RW-4	02/02/12	3363.22	ND	49.78	ND	NA	NA	NA	3313.44	
RW-4	02/15/12	3363.22	ND	49.82	ND	NA	NA	NA	3313.40	
RW-4	02/22/12	3363.22	ND	49.76	ND	NA	NA	NA	3313.46	Sampled
RW-4	04/26/12	3363.22	ND	49.76	ND	NA	NA	NA	3313.46	
RW-4	05/22/12	3363.22	ND	49.70	ND	NA	NA	NA	3313.52	Sampled
RW-4	07/18/12	3363.22	ND	49.90	ND	NA	NA	NA	3313.32	
RW-4	09/11/12	3363.22	ND	49.93	ND	NA	NA	NA	3313.29	
RW-4	11/26/12	3363.22	ND	50.00	ND	NA	NA	NA	3313.22	
RW-5	12/06/06	3362.38	ND	49.38	ND	NA	NA	NA	3313.00	Sampled
RW-5	12/13/06	3362.38	ND	49.41	ND	NA	NA	NA	3312.97	
RW-5	12/27/06	3362.38	ND	49.25	ND	NA	NA	NA	3313.13	
RW-5	01/03/07	3362.38	ND	49.35	ND	NA	NA	NA	3313.03	
RW-5	01/09/07	3362.38	ND	49.37	ND	NA	NA	NA	3313.01	
RW-5	01/18/07	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	
RW-5	01/22/07	3362.38	ND	49.20	ND	NA	NA	NA	3313.18	
RW-5	02/01/07	3362.38	ND	49.06	ND	NA	NA	NA	3313.32	
RW-5	02/07/07	3362.38	ND	49.26	ND	NA	NA	NA	3313.12	

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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-5	02/14/07	3362.38	ND	49.26	ND	NA	NA	NA	3313.12	
RW-5	02/21/07	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	
RW-5	02/28/07	3362.38	ND	49.13	ND	NA	NA	NA	3313.25	Sampled
RW-5	03/07/07	3362.38	ND	49.22	ND	NA	NA	NA	3313.16	
RW-5	04/03/07	3362.38	ND	49.19	ND	NA	NA	NA	3313.19	
RW-5	05/03/07	3362.38	ND	49.08	ND	NA	NA	NA	3313.30	
RW-5	05/30/07	3362.38	ND	49.15	ND	NA	NA	NA	3313.23	Sampled
RW-5	06/06/07	3362.38	ND	49.02	ND	NA	NA	NA	3313.36	
RW-5	07/05/07	3362.38	ND	49.02	ND	NA	NA	NA	3313.36	
RW-5	07/31/07	3362.38	ND	49.07	ND	NA	NA	NA	3313.31	
RW-5	09/06/07	3362.38	ND	49.00	ND	NA	NA	NA	3313.38	Sampled
RW-5	09/10/07	3362.38	ND	49.02	ND	NA	NA	NA	3313.36	
RW-5	11/13/07	3362.38	ND	49.06	ND	NA	NA	NA	3313.32	Sampled
RW-5	12/27/07	3362.38	ND	49.02	ND	NA	NA	NA	3313.36	
RW-5	01/09/08	3362.38	ND	48.98	ND	NA	NA	NA	3313.40	
RW-5	02/06/08	3362.38	ND	49.03	ND	NA	NA	NA	3313.35	
RW-5	02/27/08	3362.38	ND	49.15	ND	NA	NA	NA	3313.23	Sampled
RW-5	04/02/08	3362.38	ND	48.98	ND	NA	NA	NA	3313.40	
RW-5	05/28/08	3362.38	ND	49.14	ND	NA	NA	NA	3313.24	Sampled
RW-5	06/18/08	3362.38	ND	49.20	ND	NA	NA	NA	3313.18	
RW-5	07/07/08	3362.38	ND	49.15	ND	NA	NA	NA	3313.23	
RW-5	08/18/08	3362.38	ND	49.21	ND	NA	NA	NA	3313.17	Sampled
RW-5	10/29/08	3362.38	ND	49.23	ND	NA	NA	NA	3313.15	
RW-5	11/19/08	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	Sampled
RW-5	12/21/08	3362.38	ND	49.31	ND	NA	NA	NA	3313.07	
RW-5	01/07/09	3362.38	ND	49.20	ND	NA	NA	NA	3313.18	
RW-5	02/04/09	3362.38	ND	49.26	ND	NA	NA	NA	3313.12	
RW-5	02/17/09	3362.38	ND	49.25	ND	NA	NA	NA	3313.13	Sampled
RW-5	03/04/09	3362.38	ND	49.20	ND	NA	NA	NA	3313.18	
RW-5	04/08/09	3362.38	ND	49.26	ND	NA	NA	NA	3313.12	
RW-5	05/06/09	3362.38	ND	49.24	ND	NA	NA	NA	3313.14	
RW-5	05/19/09	3362.38	ND	49.35	ND	NA	NA	NA	3313.03	Sampled
RW-5	06/03/09	3362.38	ND	49.35	ND	NA	NA	NA	3313.03	
RW-5	07/15/09	3362.38	ND	49.40	ND	NA	NA	NA	3312.98	
RW-5	08/05/09	3362.38	ND	49.42	ND	NA	NA	NA	3312.96	
RW-5	08/26/09	3362.38	ND	49.42	ND	NA	NA	NA	3312.96	Sampled

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Plains Marketing, L.P.
Vacuum to Jal Mainline #5
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Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-5	09/02/09	3362.38	ND	49.37	ND	NA	NA	NA	3313.01	
RW-5	10/07/09	3362.38	ND	49.44	ND	NA	NA	NA	3312.94	
RW-5	11/18/09	3362.38	ND	49.43	ND	NA	NA	NA	3312.95	Sampled
RW-5	12/02/09	3362.38	ND	49.48	ND	NA	NA	NA	3312.90	
RW-5	01/06/10	3362.38	ND	49.44	ND	NA	NA	NA	3312.94	
RW-5	02/11/10	3362.38	ND	49.40	ND	NA	NA	NA	3312.98	Sampled
RW-5	03/10/10	3362.38	ND	49.31	ND	NA	NA	NA	3313.07	
RW-5	04/07/10	3362.38	ND	49.37	ND	NA	NA	NA	3313.01	
RW-5	05/11/10	3362.38	ND	49.31	ND	NA	NA	NA	3313.07	Sampled
RW-5	06/02/10	3362.38	ND	49.27	ND	NA	NA	NA	3313.11	
RW-5	07/07/10	3362.38	ND	49.30	ND	NA	NA	NA	3313.08	
RW-5	08/03/10	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	
RW-5	08/26/10	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	Sampled
RW-5	09/01/10	3362.38	ND	49.23	ND	NA	NA	NA	3313.15	
RW-5	10/13/10	3362.38	ND	49.37	ND	NA	NA	NA	3313.01	
RW-5	11/18/10	3362.38	ND	49.32	ND	NA	NA	NA	3313.06	Sampled
RW-5	11/23/10	3362.38	ND	49.34	ND	NA	NA	NA	3313.04	
RW-5	12/08/10	3362.38	ND	49.31	ND	NA	NA	NA	3313.07	
RW-5	01/12/11	3362.38	ND	49.30	ND	NA	NA	NA	3313.08	
RW-5	02/08/11	3362.38	ND	49.15	ND	NA	NA	NA	3313.23	
RW-5	02/23/11	3362.38	ND	49.23	ND	NA	NA	NA	3313.15	Sampled
RW-5	03/08/11	3362.38	ND	49.17	ND	NA	NA	NA	3313.21	
RW-5	04/13/11	3362.38	ND	49.22	ND	NA	NA	NA	3313.16	
RW-5	06/01/11	3362.38	ND	49.24	ND	NA	NA	NA	3313.14	Sampled
RW-5	07/27/11	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	
RW-5	08/30/11	3362.38	ND	49.33	ND	NA	NA	NA	3313.05	Sampled
RW-5	09/14/11	3362.38	ND	49.37	ND	NA	NA	NA	3313.01	
RW-5	10/12/11	3362.38	ND	49.41	ND	NA	NA	NA	3312.97	
RW-5	11/28/11	3362.38	ND	49.38	ND	NA	NA	NA	3313.00	Sampled
RW-5	12/27/11	3362.38	ND	49.41	ND	NA	NA	NA	3312.97	
RW-5	01/18/12	3362.38	ND	49.41	ND	NA	NA	NA	3312.97	
RW-5	02/02/12	3362.38	ND	49.30	ND	NA	NA	NA	3313.08	
RW-5	02/15/12	3362.38	ND	49.40	ND	NA	NA	NA	3312.98	
RW-5	02/22/12	3362.38	ND	49.34	ND	NA	NA	NA	3313.04	Sampled
RW-5	04/26/12	3362.38	ND	49.35	ND	NA	NA	NA	3313.03	
RW-5	05/22/12	3362.38	ND	49.28	ND	NA	NA	NA	3313.10	Sampled

T, E 2
HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-5	07/18/12	3362.38	ND	49.49	ND	NA	NA	NA	3312.89	
RW-5	09/11/12	3362.38	ND	49.54	ND	NA	NA	NA	3312.84	
RW-5	11/26/12	3362.38	ND	49.60	ND	NA	NA	NA	3312.78	
RW-6	12/06/06	3363.11	ND	50.62	ND	NA	NA	NA	3312.49	Sampled
RW-6	12/13/06	3363.11	ND	50.68	ND	NA	NA	NA	3312.43	
RW-6	12/27/06	3363.11	ND	50.52	ND	NA	NA	NA	3312.59	
RW-6	01/03/07	3363.11	ND	50.64	ND	NA	NA	NA	3312.47	
RW-6	01/09/07	3363.11	ND	50.66	ND	NA	NA	NA	3312.45	
RW-6	01/18/07	3363.11	ND	50.57	ND	NA	NA	NA	3312.54	
RW-6	01/22/07	3363.11	ND	50.48	ND	NA	NA	NA	3312.63	
RW-6	02/01/07	3363.11	ND	50.43	ND	NA	NA	NA	3312.68	
RW-6	02/07/07	3363.11	ND	50.58	ND	NA	NA	NA	3312.53	
RW-6	02/14/07	3363.11	ND	50.56	ND	NA	NA	NA	3312.55	
RW-6	02/21/07	3363.11	ND	50.59	ND	NA	NA	NA	3312.52	
RW-6	02/28/07	3363.11	ND	50.40	ND	NA	NA	NA	3312.71	Sampled
RW-6	03/07/07	3363.11	ND	50.50	ND	NA	NA	NA	3312.61	
RW-6	04/03/07	3363.11	ND	50.47	ND	NA	NA	NA	3312.64	
RW-6	05/03/07	3363.11	ND	50.35	ND	NA	NA	NA	3312.76	
RW-6	05/30/07	3363.11	ND	50.42	ND	NA	NA	NA	3312.69	Sampled
RW-6	06/06/07	3363.11	ND	50.31	ND	NA	NA	NA	3312.80	
RW-6	07/05/07	3363.11	ND	50.26	ND	NA	NA	NA	3312.85	
RW-6	07/31/07	3363.11	ND	50.30	ND	NA	NA	NA	3312.81	
RW-6	09/06/07	3363.11	ND	50.30	ND	NA	NA	NA	3312.81	Sampled
RW-6	10/10/07	3363.11	ND	50.34	ND	NA	NA	NA	3312.77	
RW-6	11/13/07	3363.11	ND	50.35	ND	NA	NA	NA	3312.76	Sampled
RW-6	12/27/07	3363.11	ND	50.30	ND	NA	NA	NA	3312.81	
RW-6	01/09/08	3363.11	ND	50.27	ND	NA	NA	NA	3312.84	
RW-6	02/06/08	3363.11	ND	50.31	ND	NA	NA	NA	3312.80	
RW-6	02/27/08	3363.11	ND	50.47	ND	NA	NA	NA	3312.64	Sampled
RW-6	04/02/08	3363.11	ND	50.26	ND	NA	NA	NA	3312.85	
RW-6	05/28/08	3363.11	ND	50.45	ND	NA	NA	NA	3312.66	Sampled
RW-6	06/18/08	3363.11	ND	50.52	ND	NA	NA	NA	3312.59	
RW-6	07/07/08	3363.11	ND	50.42	ND	NA	NA	NA	3312.69	
RW-6	08/18/08	3363.11	ND	50.48	ND	NA	NA	NA	3312.63	Sampled
RW-6	10/29/08	3363.11	ND	50.55	ND	NA	NA	NA	3312.56	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-6	11/19/08	3363.11	ND	50.56	ND	NA	NA	NA	3312.55	Sampled
RW-6	12/21/08	3363.11	ND	50.59	ND	NA	NA	NA	3312.52	
RW-6	01/07/09	3363.11	ND	50.46	ND	NA	NA	NA	3312.65	
RW-6	02/04/09	3363.11	ND	50.51	ND	NA	NA	NA	3312.60	
RW-6	02/17/09	3363.11	ND	50.50	ND	NA	NA	NA	3312.61	Sampled
RW-6	03/04/09	3363.11	ND	50.48	ND	NA	NA	NA	3312.63	
RW-6	04/08/09	3363.11	ND	50.54	ND	NA	NA	NA	3312.57	
RW-6	05/06/09	3363.11	ND	50.59	ND	NA	NA	NA	3312.52	
RW-6	05/19/09	3363.11	ND	50.64	ND	NA	NA	NA	3312.47	Sampled
RW-6	06/03/09	3363.11	ND	50.60	ND	NA	NA	NA	3312.51	
RW-6	07/15/09	3363.11	ND	50.70	ND	NA	NA	NA	3312.41	
RW-6	08/05/09	3363.11	ND	50.70	ND	NA	NA	NA	3312.41	
RW-6	08/26/09	3363.11	ND	50.72	ND	NA	NA	NA	3312.39	Sampled
RW-6	09/02/09	3363.11	ND	50.70	ND	NA	NA	NA	3312.41	
RW-6	10/07/09	3363.11	ND	50.72	ND	NA	NA	NA	3312.39	
RW-6	11/18/09	3363.11	ND	50.72	ND	NA	NA	NA	3312.39	
RW-6	12/02/09	3363.11	ND	50.79	ND	NA	NA	NA	3312.32	
RW-6	01/06/10	3363.11	ND	50.72	ND	NA	NA	NA	3312.39	
RW-6	02/11/10	3363.11	ND	50.70	ND	NA	NA	NA	3312.41	Sampled
RW-6	03/10/10	3363.11	ND	50.61	ND	NA	NA	NA	3312.50	
RW-6	04/07/10	3363.11	ND	50.64	ND	NA	NA	NA	3312.47	
RW-6	05/11/10	3363.11	ND	50.58	ND	NA	NA	NA	3312.53	Sampled
RW-6	06/02/10	3363.11	ND	50.56	ND	NA	NA	NA	3312.55	
RW-6	07/07/10	3363.11	ND	50.58	ND	NA	NA	NA	3312.53	
RW-6	08/03/10	3363.11	ND	50.57	ND	NA	NA	NA	3312.54	
RW-6	08/26/10	3363.11	ND	50.55	ND	NA	NA	NA	3312.56	Sampled
RW-6	09/01/10	3363.11	ND	50.51	ND	NA	NA	NA	3312.60	
RW-6	10/13/10	3363.11	ND	50.68	ND	NA	NA	NA	3312.43	
RW-6	11/18/10	3363.11	ND	50.57	ND	NA	NA	NA	3312.54	Sampled
RW-6	11/23/10	3363.11	ND	50.60	ND	NA	NA	NA	3312.51	
RW-6	12/08/10	3363.11	ND	50.63	ND	NA	NA	NA	3312.48	
RW-6	01/12/11	3363.11	ND	50.61	ND	NA	NA	NA	3312.50	
RW-6	02/08/11	3363.11	ND	50.46	ND	NA	NA	NA	3312.65	
RW-6	02/23/11	3363.11	ND	50.50	ND	NA	NA	NA	3312.61	Sampled
RW-6	03/08/11	3363.11	ND	50.49	ND	NA	NA	NA	3312.62	
RW-6	04/13/11	3363.11	ND	50.48	ND	NA	NA	NA	3312.63	

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HISTORICAL WELL SURVEY DATA AND GROUNDWATER ELEVATIONS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)	Comments
RW-6	06/01/11	3363.11	ND	50.51	ND	NA	NA	NA	3312.60	Sampled
RW-6	07/27/11	3363.11	ND	50.58	ND	NA	NA	NA	3312.53	
RW-6	08/30/11	3363.11	ND	50.60	ND	NA	NA	NA	3312.51	Sampled
RW-6	09/14/11	3363.11	ND	50.69	ND	NA	NA	NA	3312.42	
RW-6	10/12/11	3363.11	ND	50.70	ND	NA	NA	NA	3312.41	
RW-6	11/28/11	3363.11	ND	50.69	ND	NA	NA	NA	3312.42	Sampled
RW-6	12/27/11	3363.11	ND	50.71	ND	NA	NA	NA	3312.40	
RW-6	01/18/12	3363.11	ND	50.68	ND	NA	NA	NA	3312.43	
RW-6	02/02/12	3363.11	ND	50.60	ND	NA	NA	NA	3312.51	
RW-6	02/15/12	3363.11	ND	50.68	ND	NA	NA	NA	3312.43	
RW-6	02/22/12	3363.11	ND	50.57	ND	NA	NA	NA	3312.54	Sampled
RW-6	04/26/12	3363.11	ND	50.61	ND	NA	NA	NA	3312.50	
RW-6	05/22/12	3363.11	ND	50.55	ND	NA	NA	NA	3312.56	Sampled
RW-6	07/18/12	3363.11	ND	50.77	ND	NA	NA	NA	3312.34	
RW-6	09/11/12	3363.11	ND	50.78	ND	NA	NA	NA	3312.33	
RW-6	11/26/12	3363.11	ND	50.85	ND	NA	NA	NA	3312.26	

Wells re-surveyed in November 2006, RW-2 used as bench mark (3362.00 ft)
NA: Not applicable
ND: Not detected
NG: Not gauged

TABLE 3
2012 GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-1	02/22/12	1202864-01	0.0010	<0.001	<0.001	<0.003
MW-1	05/22/12	12051078-01	<0.001	<0.001	<0.001	<0.003
MW-1	09/11/12	1209475-01	<0.001	<0.001	<0.001	<0.003
MW-1	11/26/12	1211904-01	<0.001	<0.001	<0.001	<0.003
MW-2	02/22/12	1202864-02	<0.001	<0.001	<0.001	<0.003
MW-2	05/22/12	12051078-02	<0.001	<0.001	<0.001	<0.003
MW-2	09/11/12	1209475-02	<0.001	<0.001	<0.001	<0.003
MW-2	11/26/12	1211904-02	<0.001	<0.001	<0.001	<0.003
MW-3	02/22/12	1202864-03	<0.001	<0.001	<0.001	<0.003
MW-3	05/22/12	12051078-03	<0.001	<0.001	<0.001	<0.003
MW-3	09/11/12	1209475-03	<0.001	<0.001	<0.001	<0.003
MW-3	11/26/12	1211904-02	<0.001	<0.001	<0.001	<0.003
MW-4	02/22/12	1202864-04	<0.001	<0.001	<0.001	<0.003
MW-4	05/22/12	12051078-04	<0.001	<0.001	<0.001	<0.003
MW-4	09/11/12	1209475-04	<0.001	<0.001	<0.001	<0.003
MW-4	11/26/12	1211904-04	<0.001	<0.001	<0.001	<0.003
MW-5	02/22/12	1202864-05	<0.001	<0.001	<0.001	<0.003
MW-5	05/22/12	12051078-05	<0.001	<0.001	<0.001	<0.003
MW-5	09/11/12	1209475-05	<0.001	<0.001	<0.001	<0.003
MW-5	11/26/12	1211904-05	<0.001	<0.001	<0.001	<0.003
MW-6	02/22/12	1202864-06	<0.001	<0.001	<0.001	<0.003
MW-6	05/22/12	12051078-06	<0.001	<0.001	<0.001	<0.003
MW-6	09/11/12	1209475-06	<0.001	<0.001	<0.001	<0.003
MW-6	11/26/12	1211904-06	<0.001	<0.001	<0.001	<0.003
MW-7	02/22/12	1202864-07	<0.001	<0.001	<0.001	<0.003
MW-7	05/22/12	12051078-07	<0.001	<0.001	<0.001	<0.003
MW-7	09/11/12	1209475-07	<0.001	<0.001	<0.001	<0.003
MW-7	11/26/12	1211904-07	<0.001	<0.001	<0.001	<0.003
RW-1	02/22/12	NS	NS	NS	NS	NS
RW-1	05/22/12	12051078-08	**0.11**	0.066	0.077	0.36
RW-1	09/11/12	NS	NS	NS	NS	NS
RW-1	11/26/12	NS	NS	NS	NS	NS
RW-2	02/22/12	NS	NS	NS	NS	NS

TABLE 3
2012 GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
RW-2	05/22/12	12051078-09	**0.19**	0.2	0.18	0.49
RW-2	09/11/12	NS	NS	NS	NS	NS
RW-2	11/26/12	NS	NS	NS	NS	NS
RW-3	02/22/12	NS	NS	NS	NS	NS
RW-3	05/22/12	12051078-10	**0.31**	0.66	0.56	**1.1**
RW-3	09/11/12	NS	NS	NS	NS	NS
RW-3	11/26/12	NS	NS	NS	NS	NS
RW-4	02/22/12	1202864-08	<0.001	<0.001	<0.001	<0.003
RW-4	05/22/12	12051078-11	<0.001	<0.001	<0.001	<0.003
RW-4	09/11/12	1209475-08	<0.001	<0.001	<0.001	<0.003
RW-4	11/26/12	1211904-08	<0.001	<0.001	<0.001	<0.003
RW-5	02/22/12	1202864-09	<0.001	<0.001	<0.001	<0.003
RW-5	05/22/12	12051078-12	<0.001	<0.001	<0.001	<0.003
RW-5	09/11/12	1209475-09	<0.001	<0.001	<0.001	<0.003
RW-5	11/26/12	1211904-09	<0.001	<0.001	<0.001	<0.003
RW-6	02/22/12	1202864-10	<0.001	<0.001	<0.001	<0.003
RW-6	05/22/12	12051078-13	<0.001	<0.001	<0.001	<0.003
RW-6	09/11/12	1209475-09	<0.001	<0.001	<0.001	<0.003
RW-6	11/26/12	1211904-10	<0.001	<0.001	<0.001	<0.003

NMOCD: New Mexico Oil Conservation Division
Exceedences of NMOCD Remediation Criteria are shown in **bold**

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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-1	03/29/06	T13036-1	**0.557**	0.0032	0.0133	0.0092	
MW-1	06/10/06	T13862-1	**0.639** [a]	<0.00036	0.0033	0.0015 J	
MW-1	09/12/06	T14676-1	**0.512** [a]	<0.00020	<0.00033	<0.00036	
MW-1	12/06/06	T15618-1	**0.452** [a]	<0.00020	0.0049	<0.00036	
MW-1	02/28/07	T16494-1	**0.481** [a]	<0.00020	0.0191	<0.00036	
MW-1	05/30/07	T17645-1	**0.213** [a]	<0.00023	0.0043	<0.00055	
MW-1	09/06/07	T18811-1	**0.066**	<0.00023	0.006	<0.00055	
MW-1	11/13/07	T19737-1	**0.0955** [c]	<0.001	0.0091	<0.003	
MW-1	02/26/08	T21028-1	**0.0156**	<0.00023	0.00069 J	<0.00055	
MW-1	05/28/08	T22367-1	**0.031**	<0.00023	0.0022	<0.00055	
MW-1	08/18/08	T23538-1	0.001	<0.0005	<0.0005	<0.001	
MW-1	11/19/08	8112008	**0.0209**	0.00120	0.00330	<0.00100	
MW-1	02/17/09	187728	0.0027	<0.001	<0.001	<0.001	
MW-1	05/19/09	196550	0.0004 J	<0.000281	<0.000535	<0.000960	
MW-1	08/26/09	208325	<0.000133	<0.000281	<0.000535	<0.000960	
MW-1	11/18/09	215413	**0.223**	<0.00332	0.0617	<0.00143	
MW-1	02/11/10	222481	**0.0769**	<0.0004	0.0042	<0.000379	
MW-1	05/12/10	1005475-01	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	08/26/10	1008909-01	**0.017**	<0.0010	<0.0010	<0.0030	
MW-1	11/18/10	1011749-01	0.0077	<0.0010	<0.0010	<0.0030	
MW-1	02/23/11	1102701-04	**0.025**	<0.0010	<0.0010	<0.0030	
MW-1	06/01/11	1106050-01	0.0004 J	<0.0010	<0.0010	<0.0030	
MW-1	08/30/11	11081008-01	<0.001	<0.0010	<0.0010	<0.0030	
MW-1	11/28/11	1111901-01	<0.001	<0.0010	<0.0010	<0.0030	
MW-1	02/22/12	1202864-01	0.0010	<0.0010	<0.0010	<0.0030	
MW-1	05/22/12	12051078-01	<0.001	<0.0010	<0.0010	<0.0030	
MW-1	09/11/12	1209475-01	<0.001	<0.001	<0.001	<0.003	
MW-1	11/26/12	1211904-01	<0.001	<0.001	<0.001	<0.003	
MW-2	03/29/06	T 13036-2	0.0012	0.0011	0.00042	<0.00072	
MW-2	06/10/06	T13862-2	0.00038 J	<0.00036	<0.00035	<0.00072	
MW-2	09/12/06	T14676-2	<0.00035	<0.00020	<0.00033	<0.00036	
MW-2	12/06/06	T15618-2	0.0012	0.00087 J	<0.00033	<0.00036	
MW-2	02/28/07	T16494-2	0.0044	0.0017	<0.00033	<0.00036	
MW-2	05/30/07	T17645-2	0.00065 J	<0.00023	<0.00035	<0.00055	
MW-2	09/06/07	T18811-2	<0.00021	<0.00023	<0.00035	<0.00055	
MW-2	11/13/07	T19737-2	<0.001	<0.001	<0.001	<0.003	
MW-2	02/26/08	T21028-2	<0.00021	<0.00023	<0.00035	<0.00055	
MW-2	05/28/08	T22367-2	<0.00021	<0.00023	<0.00035	<0.00055	
MW-2	08/18/08	T23538-2	0.00065 J	<0.0005	<0.0005	<0.001	
MW-2	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-2	02/17/09	187729	<0.00100	<0.00100	<0.00100	<0.00100	
MW-2	05/19/09	196551	<0.000133	<0.000281	<0.000535	0.0018	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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-2	08/26/09	208326	<0.000149	<0.000188	<0.000178	<0.000163	
MW-2	11/18/09	215414	<0.000160	<0.000332	<0.000230	<0.000143	
MW-2	02/11/10	222482	<0.000371	<0.0004	<0.00043	<0.000379	
MW-2	05/12/10	1005475-02	<0.001	<0.001	<0.001	<0.003	
MW-2	08/26/10	1008909-02	<0.001	<0.001	<0.001	<0.003	
MW-2	11/18/10	1011749-02	<0.001	<0.001	<0.001	<0.003	
MW-2	02/23/11	1102701-05	<0.001	<0.001	<0.001	<0.003	
MW-2	06/01/11	1106050-02	<0.001	<0.001	<0.001	<0.003	
MW-2	08/30/11	11081008-02	<0.001	<0.001	<0.001	<0.003	
MW-2	11/28/11	1111901-02	<0.001	<0.001	<0.001	<0.003	
MW-2	02/22/12	1202864-02	<0.001	<0.001	<0.001	<0.003	
MW-2	05/22/12	12051078-02	<0.001	<0.001	<0.001	<0.003	
MW-2	09/11/12	1209475-02	<0.001	<0.001	<0.001	<0.003	
MW-2	11/26/12	1211904-02	<0.001	<0.001	<0.001	<0.003	
MW-3	03/29/06	T 13036-3	**0.0129**	0.0089	0.0021	0.0038	
MW-3	06/10/06	T13862-3	0.0075	0.0043	0.00071 J	0.002	
MW-3	09/12/06	T14676-3	0.0023	<0.00020	<0.00033	<0.00036	
MW-3	12/06/06	T15618-3	0.0021	0.00077 J	<0.00033	<0.00036	
MW-3	02/28/07	T16494-3	0.0078	0.0026	0.00061	0.0024 J	
MW-3	05/30/07	T17645-3	<0.00021	<0.00023	<0.00035	<0.00055	
MW-3	09/06/07	T18811-3	<0.00021	<0.00023	<0.00035	<0.00055	
MW-3	11/13/07	T19737-3	<0.001	<0.001	<0.001	<0.003	
MW-3	02/26/08	T21028-3	<0.00021	<0.00023	<0.00035	<0.00055	
MW-3	05/28/08	T22367-3	<0.00021	<0.00023	<0.00035	<0.00055	
MW-3	08/18/08	T23538-3	0.0019	<0.0005	<0.0005	<0.0005	
MW-3	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-3	02/17/09	187730	<0.00100	<0.00100	<0.00100	<0.00100	
MW-3	05/19/09	196552	0.0011	<0.000281	<0.000535	<0.000960	
MW-3	08/26/09	208327	<0.000149	<0.000188	<0.000178	<0.000163	
MW-3	11/18/09	215415	<0.000160	<0.000332	<0.000230	<0.000143	
MW-3	02/11/10	222483	<0.000371	<0.0004	<0.00043	<0.000379	
MW-3	08/26/10	1008909-03	<0.001	<0.001	<0.001	<0.003	
MW-3	11/18/10	1011749-03	<0.001	<0.001	<0.001	<0.003	
MW-3	02/23/11	1102701-06	<0.001	<0.001	<0.001	<0.003	
MW-3	06/01/11	1106050-03	<0.001	<0.001	<0.001	<0.003	
MW-3	08/30/11	11081008-03	<0.001	<0.001	<0.001	<0.003	
MW-3	11/28/11	1111901-03	<0.001	<0.001	<0.001	<0.003	
MW-3	02/22/12	1202864-03	<0.001	<0.001	<0.001	<0.003	
MW-3	05/22/12	12051078-03	<0.001	<0.001	<0.001	<0.003	
MW-3	09/11/12	1209475-03	<0.001	<0.001	<0.001	<0.003	
MW-3	11/26/12	1211904-02	<0.001	<0.001	<0.001	<0.003	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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	12/06/06	T15618-4	<0.00035	<0.00020	<0.00033	<0.00036	
MW-4	02/28/07	T16494-4	<0.00035	<0.00020	<0.00033	<0.00036	
MW-4	05/30/07	T17645-4	<0.00021	<0.00023	<0.00035	<0.00055	
MW-4	09/06/07	T18811-4	<0.00021	<0.00023	<0.00035	<0.00055	
MW-4	11/13/07	T19737-4	<0.001	<0.001	<0.001	<0.003	
MW-4	02/26/08	T21028-4	0.00086 J	<0.00023	<0.00035	<0.00055	
MW-4	05/28/08	T22367-4	<0.00021	<0.00023	<0.00035	<0.00055	
MW-4	08/18/08	T23538-4	<0.0005	<0.0005	<0.0005	<0.001	
MW-4	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-4	02/17/09	187731	<0.00100	<0.00100	<0.00100	<0.00100	
MW-4	05/19/09	196553	<0.000133	<0.000281	<0.000535	<0.000960	
MW-4	08/26/09	208328	<0.000149	<0.000188	<0.000178	<0.000163	
MW-4	11/18/09	215416	<0.000160	<0.000332	<0.000230	<0.000143	
MW-4	02/11/10	222484	<0.000371	<0.0004	<0.00043	<0.000379	
MW-4	05/12/10	1005475-04	<0.001	<0.001	<0.001	<0.003	
MW-4	08/26/10	1008909-04	<0.001	<0.001	<0.001	<0.003	
MW-4	11/18/10	1011749-04	<0.001	<0.001	<0.001	<0.003	
MW-4	02/23/11	1102701-07	<0.001	<0.001	<0.001	<0.003	
MW-4	06/01/11	1106050-04	<0.001	<0.001	<0.001	<0.003	
MW-4	08/30/11	11081008-04	<0.001	<0.001	<0.001	<0.003	
MW-4	11/28/11	1111901-04	<0.001	<0.001	<0.001	<0.003	
MW-4	02/22/12	1202864-04	<0.001	<0.001	<0.001	<0.003	
MW-4	05/22/12	12051078-04	<0.001	<0.001	<0.001	<0.003	
MW-4	09/11/12	1209475-04	<0.001	<0.001	<0.001	<0.003	
MW-4	11/26/12	1211904-04	<0.001	<0.001	<0.001	<0.003	
MW-5	12/06/06	T15618-5	0.00055 J	<0.00020	<0.00033	<0.00036	
MW-5	02/28/07	T16494-5	<0.00035	<0.00020	<0.00033	<0.00036	
MW-5	05/30/07	T17645-5	<0.00021	<0.00023	<0.00035	<0.00055	
MW-5	09/06/07	T18811-5	<0.00021	<0.00023	<0.00035	<0.00055	
MW-5	11/13/07	T19737-5	<0.001	<0.001	<0.001	<0.003	
MW-5	02/26/08	T21028-5	<0.00021	<0.00023	<0.00035	<0.00055	
MW-5	05/28/08	T22367-5	<0.00021	<0.00023	<0.00035	<0.00055	
MW-5	08/18/08	T23538-5	<0.0005	<0.0005	<0.0005	<0.001	
MW-5	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-5	02/17/09	187732	<0.00100	<0.00100	<0.00100	<0.00100	
MW-5	05/19/09	196554	<0.000133	<0.000281	<0.000535	<0.000960	
MW-5	08/26/09	208329	<0.000149	<0.000188	<0.000178	<0.000163	
MW-5	11/18/09	215417	<0.000160	<0.000332	<0.000230	<0.000143	
MW-5	02/11/10	222485	<0.000371	<0.0004	<0.00043	<0.000379	
MW-5	05/12/10	1005475-05	<0.001	<0.001	<0.001	<0.003	
MW-5	08/26/10	1008909-05	<0.001	<0.001	<0.001	<0.003	
MW-5	11/18/10	1011749-05	<0.001	<0.001	<0.001	<0.003	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (mg/L)
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	
			NMOCD Remediation Criteria				
			0.01 mg/L	0.76 mg/L	0.75 mg/L	0.62 mg/L	
MW-5	02/23/11	1102701-08	<0.001	<0.001	<0.001	<0.003	
MW-5	06/01/11	1106050-05	<0.001	<0.001	<0.001	<0.003	
MW-5	08/30/11	11081008-05	<0.001	<0.001	<0.001	<0.003	
MW-5	11/28/11	1111901-05	<0.001	<0.001	<0.001	<0.003	
MW-5	02/22/12	1202864-05	<0.001	<0.001	<0.001	<0.003	
MW-5	05/22/12	12051078-05	<0.001	<0.001	<0.001	<0.003	
MW-5	09/11/12	1209475-05	<0.001	<0.001	<0.001	<0.003	
MW-5	11/26/12	1211904-05	<0.001	<0.001	<0.001	<0.003	
MW-6	12/06/06	T15618-6	<0.00035	<0.00020	<0.00033	<0.00036	
MW-6	02/28/07	T16494-6	<0.00035	<0.00020	<0.00033	<0.00036	
MW-6	05/30/07	T17645-6	<0.00021	<0.00023	<0.00035	<0.00055	
MW-6	09/06/07	T18811-6	<0.00021	<0.00023	<0.00035	<0.00055	
MW-6	11/13/07	T19737-6	<0.001	<0.001	<0.001	<0.003	
MW-6	02/26/08	T21028-6	<0.00021	<0.00023	<0.00035	<0.00055	
MW-6	05/28/08	T22367-6	<0.00021	<0.00023	<0.00035	<0.00055	
MW-6	08/18/08	T23538-6	<0.0005	<0.0005	<0.0005	<0.001	
MW-6	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-6	02/17/09	187733	<0.00100	<0.00100	<0.00100	<0.00100	
MW-6	05/19/09	196555	<0.000133	<0.000281	<0.000535	<0.000960	
MW-6	08/26/09	208330	<0.000149	<0.000188	<0.000178	<0.000163	
MW-6	11/18/09	215418	<0.000160	<0.000332	<0.000230	<0.000143	
MW-6	02/11/10	222486	<0.000371	<0.0004	<0.00043	<0.000379	
MW-6	05/12/10	1005475-06	<0.001	<0.001	<0.001	<0.003	
MW-6	08/26/10	1008909-06	<0.001	<0.001	<0.001	<0.003	
MW-6	11/18/10	1011749-06	<0.001	<0.001	<0.001	<0.003	
MW-6	02/23/11	1102701-09	<0.001	<0.001	<0.001	<0.003	
MW-6	06/01/11	1106050-06	<0.001	<0.001	<0.001	<0.003	
MW-6	08/30/11	11081008-06	<0.001	<0.001	<0.001	<0.003	
MW-6	11/28/11	1111901-06	<0.001	<0.001	<0.001	<0.003	
MW-6	02/22/12	1202864-06	<0.001	<0.001	<0.001	<0.003	
MW-6	05/22/12	12051078-06	<0.001	<0.001	<0.001	<0.003	
MW-6	09/11/12	1209475-06	<0.001	<0.001	<0.001	<0.003	
MW-6	11/26/12	1211904-06	<0.001	<0.001	<0.001	<0.003	
MW-7	12/06/06	T15618-7	<0.00035	<0.00020	<0.00033	<0.00036	
MW-7	02/28/07	T16494-7	**0.0114**	<0.00020	<0.00033	<0.00036	
MW-7	05/30/07	T17645-7	0.0049	<0.00023	<0.00035	<0.00055	
MW-7	09/06/07	T18811-7	0.00073 J	<0.00023	<0.00035	<0.00055	
MW-7	11/13/07	T19737-7	<0.001	<0.001	<0.001	<0.003	
MW-7	02/26/08	T21028-7	<0.00021	<0.00023	<0.00035	<0.00055	
MW-7	05/28/08	T22367-7	0.00053 J	<0.00023	<0.00035	<0.00055	
MW-7	08/18/08	T23538-7	<0.0005	<0.0005	<0.0005	<0.001	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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-7	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
MW-7	02/17/09	187734	<0.00100	<0.00100	<0.00100	<0.00100	
MW-7	05/19/09	196556	<0.000133	<0.000281	<0.000535	<0.000960	
MW-7	08/26/09	208331	<0.000149	<0.000188	<0.000178	<0.000163	
MW-7	11/18/09	215419	<0.000160	<0.000332	<0.000230	<0.000143	
MW-7	02/11/10	222487	<0.000371	<0.0004	<0.00043	<0.000379	
MW-7	05/12/10	1005475-07	<0.001	<0.001	<0.001	<0.003	
MW-7	08/26/10	1008909-07	<0.001	<0.001	<0.001	<0.003	
MW-7	11/18/10	1011749-07	<0.001	<0.001	<0.001	<0.003	
MW-7	02/23/11	1102701-10	<0.001	<0.001	<0.001	<0.003	
MW-7	06/01/11	1106050-07	<0.001	<0.001	<0.001	<0.003	
MW-7	08/30/11	11081008-07	<0.001	<0.001	<0.001	<0.003	
MW-7	11/28/11	1111901-07	<0.001	<0.001	<0.001	<0.003	
MW-7	02/22/12	1202864-07	<0.001	<0.001	<0.001	<0.003	
MW-7	05/22/12	12051078-07	<0.001	<0.001	<0.001	<0.003	
MW-7	09/11/12	1209475-07	<0.001	<0.001	<0.001	<0.003	
MW-7	11/26/12	1211904-07	<0.001	<0.001	<0.001	<0.003	
RW-1	06/01/11	1106050-08	**0.066**	0.016	0.057	0.18	
RW-1	02/22/12	NS	NS	NS	NS	NS	
RW-1	05/22/12	12051078-08	**0.11**	0.066	0.077	0.36	
RW-1	09/11/12	NS	NS	NS	NS	NS	
RW-1	11/26/12	NS	NS	NS	NS	NS	
RW-2	06/01/11	1106050-09	**0.034**	0.038	0.051	0.14	
RW-2	02/22/12	NS	NS	NS	NS	NS	
RW-2	05/22/12	12051078-09	**0.19**	0.2	0.18	0.49	
RW-2	09/11/12	NS	NS	NS	NS	NS	
RW-2	11/26/12	NS	NS	NS	NS	NS	
RW-3	06/01/11	110650-10	**0.21**	0.2	0.18	0.39	
RW-3	02/22/12	NS	NS	NS	NS	NS	
RW-3	05/22/12	12051078-10	**0.31**	0.66	0.56	**1.1**	
RW-3	09/11/12	NS	NS	NS	NS	NS	
RW-3	11/26/12	NS	NS	NS	NS	NS	
RW-4	12/06/06	T15618-8	0.00099 J	0.00035 J	<0.00033	<0.00036	
RW-4	02/28/07	T16494-8	<0.00035	<0.00020	<0.00033	<0.00036	
RW-4	05/30/07	T17645-8	<0.00021	<0.00023	<0.00035	<0.00055	
RW-4	09/06/07	T18811-8	<0.00021	<0.00023	<0.00035	<0.00055	
RW-4	11/13/07	T19737-8	<0.001	<0.001	<0.001	<0.003	
RW-4	02/26/08	T21028-8	<0.00021	<0.00023	<0.00035	<0.00055	
RW-4	05/28/08	T22367-11	<0.00021	<0.00023	<0.00035	<0.00055	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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	
RW-4	08/18/08	T23538-8	<0.0005	<0.0005	<0.0005	<0.001	
RW-4	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
RW-4	02/17/09	187735	<0.00100	<0.00100	<0.00100	<0.00100	
RW-4	05/19/09	196560	<0.000133	<0.000281	<0.000535	<0.000960	
RW-4	08/26/09	208332	<0.000149	<0.000188	<0.000178	<0.000163	
RW-4	11/18/09	215420	<0.000160	<0.000332	<0.000230	<0.000143	
RW-4	02/11/10	222488	<0.000371	<0.0004	<0.00043	<0.000379	
RW-4	05/12/10	1005475-11	<0.001	<0.001	<0.001	<0.003	
RW-4	08/26/10	1008909-08	<0.001	<0.001	<0.001	<0.003	
RW-4	11/18/10	1011749-08	<0.001	<0.001	<0.001	<0.003	
RW-4	02/23/11	1102701-01	<0.001	<0.001	<0.001	<0.003	
RW-4	06/01/11	1106050-11	<0.001	<0.001	<0.001	<0.003	
RW-4	08/30/11	11081008-08	<0.001	<0.001	<0.001	<0.003	
RW-4	11/28/11	1111901-08	<0.001	<0.001	<0.001	<0.003	
RW-4	02/22/12	1202864-08	<0.001	<0.001	<0.001	<0.003	
RW-4	05/22/12	12051078-11	<0.001	<0.001	<0.001	<0.003	
RW-4	09/11/12	1209475-08	<0.001	<0.001	<0.001	<0.003	
RW-4	11/26/12	1211904-08	<0.001	<0.001	<0.001	<0.003	
RW-5	12/06/06	T15618-9	0.0035	0.00095 J	0.00043 J	<0.00036	
RW-5	02/28/07	T16494-9	**0.0193**	0.0038	0.0015	0.0014 J	
RW-5	05/30/07	T17645-9	0.0045	0.0011	0.00066 J	0.00056 J	
RW-5	09/06/07	T18811-9	0.0012	<0.00023	<0.00035	<0.00055	
RW-5	11/13/07	T19737-9	0.0024	<0.001	<0.001	<0.003	
RW-5	02/26/08	T21028-9	<0.00021	<0.00023	<0.00035	<0.00055	
RW-5	05/28/08	T22367-12	0.00045 J	<0.00023	<0.00035	<0.00055	
RW-5	08/18/08	T23538-9	<0.0005	<0.0005	<0.0005	<0.001	
RW-5	11/19/08	8112008	0.00260	<0.00100	<0.00100	<0.00100	
RW-5	02/17/09	187736	0.0048	<0.00100	<0.00100	<0.00100	
RW-5	05/19/09	196561	0.0003 J	<0.000281	<0.000535	0.0016	
RW-5	08/26/09	208333	0.0024	<0.000281	<0.000535	<0.000960	
RW-5	11/18/09	215421	0.0008 J	<0.000332	<0.000230	<0.000143	
RW-5	02/11/10	222489	<0.000371	<0.0004	<0.00043	<0.000379	
RW-5	05/12/10	1005475-12	<0.001	<0.001	<0.001	<0.003	
RW-5	08/26/10	1008909-09	<0.001	<0.001	<0.001	<0.003	
RW-5	11/18/10	1011749-09	<0.001	<0.001	<0.001	<0.003	
RW-5	02/23/11	1102701-02	<0.001	<0.001	<0.001	<0.003	
RW-5	06/01/11	1106050-12	<0.001	<0.001	<0.001	<0.003	
RW-5	08/30/11	11081008-09	<0.001	<0.001	<0.001	<0.003	
RW-5	11/28/11	1111901-09	<0.001	<0.001	<0.001	<0.003	
RW-5	02/22/12	1202864-09	<0.001	<0.001	<0.001	<0.003	
RW-5	05/22/12	12051078-12	<0.001	<0.001	<0.001	<0.003	
RW-5	09/11/12	1209475-09	<0.001	<0.001	<0.001	<0.003	

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
Vacuum to Jal Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B				Total Dissolved Solids (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	
RW-5	11/26/12	1211904-09	<0.001	<0.001	<0.001	<0.003	
RW-6	12/06/06	T15618-10	<0.00035	<0.00020	<0.00033	<0.00036	
RW-6	02/28/07	T16494-10	<0.00035	<0.00020	<0.00033	<0.00036	
RW-6	05/30/07	T17645-10	<0.00021	<0.00023	<0.00035	<0.00055	
RW-6	09/06/07	T18811-10	<0.00021	<0.00023	<0.00035	<0.00055	
RW-6	11/13/07	T19737-10	<0.001	<0.001	<0.001	<0.003	
RW-6	02/26/08	T21028-10	<0.00021	<0.00023	<0.00035	<0.00055	
RW-6	05/28/08	T22367-13	<0.00021	<0.00023	<0.00035	<0.00055	
RW-6	08/18/08	T23538-10	<0.0005	<0.0005	<0.0005	<0.001	
RW-6	11/19/08	8112008	<0.00100	<0.00100	<0.00100	<0.00100	
RW-6	02/17/09	187737	<0.00100	<0.00100	<0.00100	<0.00100	
RW-6	05/19/09	196562	0.0008 J	<0.000281	<0.000535	<0.000960	
RW-6	08/26/09	208334	0.0002 J	<0.000281	<0.000535	<0.000960	
RW-6	11/18/09	215422	<0.000160	<0.000332	<0.000230	<0.000143	
RW-6	02/11/10	222490	<0.000371	<0.0004	<0.00043	<0.000379	
RW-6	05/12/10	1005475-13	<0.001	<0.001	<0.001	<0.003	
RW-6	08/26/10	1008909-10	<0.001	<0.001	<0.001	<0.003	
RW-6	11/18/10	1011749-10	<0.001	<0.001	<0.001	<0.003	
RW-6	02/23/11	1102701-03	<0.001	<0.001	<0.001	<0.003	
RW-6	06/01/11	1106050-13	<0.001	<0.001	<0.001	<0.003	
RW-6	08/30/11	11081008-10	<0.001	<0.001	<0.001	<0.003	
RW-6	11/28/11	1111901-10	<0.001	<0.001	<0.001	<0.003	
RW-6	02/22/12	1202864-10	<0.001	<0.001	<0.001	<0.003	
RW-6	05/22/12	12051078-13	<0.001	<0.001	<0.001	<0.003	
RW-6	09/11/12	1209475-09	<0.001	<0.001	<0.001	<0.003	
RW-6	11/26/12	1211904-10	<0.001	<0.001	<0.001	<0.003	

NMOCD: New Mexico Oil Conservation Division
Exceedences of NMOCD Remediation Criteria are shown in **bold**
[a] Result is from Run #2
J: Analyte detected below method detection limit (MDL) but above sample detection limit (SDL)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS FOR PAHS
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
Lea County, New Mexico

Monitoring Well	Sample Date	Lab Report #	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[k]pyrene	Dibenzofuran	Dibenz[a,h]-anthracene	Benzo[g,h,i]-perylene	Benzo(b)fluoranthene *	1-Methylnaphthalene	2-Methylnaphthalene	Total methylnaphthalene	TPH-DRO (C9-C10)	TPH (C10-C28)	TPH (C28-C36)
Units			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Other regulatory limits (Tap Water*)			***		365	243	0.91	1100	1830	1460	183	0.92	29.1	0.81	0.7**		0.092		0.1						
MW-1	12/7/2011	1112252-01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	<0.20	<0.20	NA	NA	NA	NA	NA
MW-1	5/22/2012	12051078-01	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965	<0.0965		<0.0965	<0.0965	<0.0965	NA	NA	NA	NA	NA	NA
RW-1	5/28/2008	T22367-8	14.1	<1.6	<1.5	<2.1	<2.4	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.3		<2.5	<1.6		13		9.01	3.28	
RW-1	5/19/2009	196557	17.6	<0.0707	<0.131	1.98	<0.0801	2.76	<0.808	<0.808	<0.0458	<0.0302	<0.0913	<0.0631	<0.0506	<0.0558	2.34	<0.0628	<0.0765	19.9	17.2	37.1	3.73	<0.876	
RW-1	5/12/2010	1005475-08	2	<0.20	<0.20	0.31	<0.20	0.39	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.39	<0.20	<0.20	2.8	2.3	5.1	6.5	4.6	<0.47
RW-1	5/22/2012	12051078-08	17.1	0.196	0.167	<0.0982	<0.0982	1.59	<0.0982	1.17	<0.0982	<0.0982	0.208	<0.0982	<0.0982		<0.0982	<0.0982	<0.0982	NA	NA	NA	NA	NA	NA
RW-2	5/28/2008	T-22367-9	10	<1.6	<1.5	<2.1	<2.4	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.3		<2.5	<1.6		7.4		3.61	1.53	
RW-2	5/19/2009	196558	2.66	<0.0707	<0.131	1.17	<0.0801	1.49	<0.808	<0.808	<0.0458	<0.0302	<0.0913	<0.0631	<0.0506	<0.0558	1.05	<0.0628	<0.0765	5.64	4.16	9.8	1.77	<0.876	
RW-2	5/12/2010	1005475-09	30	<0.20	<0.20	2.5	<0.20	4.4	<0.20	<0.20	0.24	<0.20	0.68	<0.20	<0.20	<0.20	4.2	<0.20	<0.20	43	44	87	110	170	20
RW-2	5/22/2012	12051078-09	**82.5**	2.47	1.12	12.6	<0.0971	24.8	0.579	0.907	0.756	0.852	3.71	<0.0971	<0.0971	NA	<0.0971	<0.0971	<0.0971	NA	NA	NA	NA	NA	NA
RW-3	5/28/2008	T22367-10	13.5	<1.6	<1.5	<2.1	<2.4	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	<1.3		<2.5	<1.6		7.8		3.81	0.292	
RW-3	5/19/2009	196559	25	<0.0707	<0.131	2.29	<0.0801	3.26	<0.808	<0.808	<0.0458	<0.0302	<0.0913	<0.0633	<0.0506	<0.0558	3.24	<0.0628	<0.0765	27.2	22.6	49.8	3.1 J	1.18 J	
RW-3	5/12/2010	1005475-10	**33**	<0.20	0.47	3.7	<0.20	6.3	0.54	<0.20	<0.20	<0.20	1	<0.20	<0.20	<0.20	4.6	<0.20	<0.20	53	53	106	120	170	26
RW-3	5/22/2012	12051078-10	**42.6**	1.26	0.874	7.16	<0.0988	20.7	1.13	0.706	0.646	<0.0988	2.01	0.153	<0.0988	NA	<0.0988	<0.0988	0.188	NA	NA	NA	NA	NA	NA

NMOCD: New Mexico Oil Conservation Division
Exceedences of NMOCD Remediation Criteria are shown in **bold**
J: Analyte detected below method detection limit (MDL but above sample detection limit (SDL)
* Values reported from run 2 as carry over was reported in run 1
Tap Water*: New Mexico Environmental Department (NMED) Tap Water Soil screening levels for residential scenarios.
*** = NM Water Quality Standard for PAHs is 30µg/L for total naphthalenes plus monomethylnaphthalenes (total methylnaphthalenes)
** = NM Water Quality Standard
[a] Estimated concentration value greater than standard range
NA: Not analyzed

TABLE 6
2012 PSH AND DISSOLVED GROUNDWATER RECOVERY
Plains Marketing, L.P.
Vacuum to Jal 14" Mainline #5
SRS #2003-00134
Lea County, New Mexico

Well	PSH Recovered (gallons)	Groundwater Recovered (gallons)	Total Fluids Recovered (gallons)
RW1	3.375	**292.95**	296.325
RW2	5.7	368.75	374.45
RW3	5.125	322	327.125
Totals for :	**14.2**	**983.7**	997.9

Note: The above estimated gallons of total fluids (PSH and groundwater) include those pumped and manually bailed; these are estimates only.

Appendix A

2012 Laboratory Analytical Data

1st Quarter 2012 – Report # 1202864

2nd Quarter 2012 – Report # 12051078

3rd Quarter 2012 – Report # 1209475

4th Quarter 2012 – Report # 1211904

And

- 2012 Chain of Custody Documentation

28-Feb-2012

Kathleen Buxton
EarthCon Consultants, Inc.
4800 Sugar Grove Blvd.
Suite 390
Houston, TX 77477

Tel: (281) 240-5200
Fax: (281) 240-5201

Re: Vac to Jal Mainline #5 Work Order: **1202864**

Dear Kathleen,

ALS Environmental received 11 samples on 24-Feb-2012 09:12 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Yvan K. Ty

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-11-5

ALS Environmental

Date: 28-Feb-12

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: **1202864**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1202864-01	MW1	Groundwater		2/22/2012 14:00	2/24/2012 09:12	☐
1202864-02	MW2	Groundwater		2/22/2012 14:15	2/24/2012 09:12	☐
1202864-03	MW3	Groundwater		2/22/2012 14:20	2/24/2012 09:12	☐
1202864-04	MW4	Groundwater		2/22/2012 14:25	2/24/2012 09:12	☐
1202864-05	MW5	Groundwater		2/22/2012 14:30	2/24/2012 09:12	☐
1202864-06	MW6	Groundwater		2/22/2012 14:35	2/24/2012 09:12	☐
1202864-07	MW7	Groundwater		2/22/2012 14:40	2/24/2012 09:12	☐
1202864-08	RW4	Groundwater		2/22/2012 14:45	2/24/2012 09:12	☐
1202864-09	RW5	Groundwater		2/22/2012 14:50	2/24/2012 09:12	☐
1202864-10	RW6	Groundwater		2/22/2012 14:55	2/24/2012 09:12	☐
1202864-11	Trip Blank	Water		2/22/2012	2/24/2012 09:12	☑

Client:	EarthCon Consultants, Inc.
Project:	Vac to Jal Mainline #5
Work Order:	1202864

Case Narrative

A trip blank was received and placed on hold since it was not requested on the chain of custody.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 1202864
Sample ID: MW1 **Lab ID:** 1202864-01
Collection Date: 2/22/2012 02:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	**0.0010**		**0.0010**	**mg/L**	1	2/27/2012 07:06 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 07:06 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 07:06 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 07:06 PM
Surr: 4-Bromofluorobenzene	*107*		*77-129*	*%REC*	1	2/27/2012 07:06 PM
Surr: Trifluorotoluene	*108*		*75-130*	*%REC*	1	2/27/2012 07:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 1202864
Sample ID: MW2
Lab ID: 1202864-02
Collection Date: 2/22/2012 02:15 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 08:29 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 08:29 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 08:29 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 08:29 PM
Surr: 4-Bromofluorobenzene	*109*		*77-129*	*%REC*	1	2/27/2012 08:29 PM
Surr: Trifluorotoluene	*112*		*75-130*	*%REC*	1	2/27/2012 08:29 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 1202864
Sample ID: MW3
Lab ID: 1202864-03
Collection Date: 2/22/2012 02:20 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 08:48 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 08:48 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 08:48 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 08:48 PM
Surr: 4-Bromofluorobenzene	*112*		*77-129*	*%REC*	1	2/27/2012 08:48 PM
Surr: Trifluorotoluene	*115*		*75-130*	*%REC*	1	2/27/2012 08:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 1202864
Sample ID: MW4 **Lab ID:** 1202864-04
Collection Date: 2/22/2012 02:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 09:06 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 09:06 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 09:06 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 09:06 PM
Surr: 4-Bromofluorobenzene	*107*		*77-129*	*%REC*	1	2/27/2012 09:06 PM
Surr: Trifluorotoluene	*110*		*75-130*	*%REC*	1	2/27/2012 09:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Sample ID: MW5
Collection Date: 2/22/2012 02:30 PM

Work Order: 1202864
Lab ID: 1202864-05
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 09:25 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 09:25 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 09:25 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 09:25 PM
Surr: 4-Bromofluorobenzene	*106*		*77-129*	*%REC*	1	2/27/2012 09:25 PM
Surr: Trifluorotoluene	*107*		*75-130*	*%REC*	1	2/27/2012 09:25 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 1202864
Sample ID: MW6
Lab ID: 1202864-06
Collection Date: 2/22/2012 02:35 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 09:44 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 09:44 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 09:44 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 09:44 PM
Surr: 4-Bromofluorobenzene	*108*		*77-129*	*%REC*	1	2/27/2012 09:44 PM
Surr: Trifluorotoluene	*107*		*75-130*	*%REC*	1	2/27/2012 09:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 1202864
Sample ID: MW7 **Lab ID:** 1202864-07
Collection Date: 2/22/2012 02:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 10:02 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 10:02 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 10:02 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 10:02 PM
Surr: 4-Bromofluorobenzene	*109*		*77-129*	*%REC*	1	2/27/2012 10:02 PM
Surr: Trifluorotoluene	*110*		*75-130*	*%REC*	1	2/27/2012 10:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Sample ID: RW4
Collection Date: 2/22/2012 02:45 PM

Work Order: 1202864
Lab ID: 1202864-08
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 10:21 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 10:21 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 10:21 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 10:21 PM
Surr: 4-Bromofluorobenzene	*106*		*77-129*	*%REC*	1	2/27/2012 10:21 PM
Surr: Trifluorotoluene	*109*		*75-130*	*%REC*	1	2/27/2012 10:21 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 1202864
Sample ID: RW5
Lab ID: 1202864-09
Collection Date: 2/22/2012 02:50 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 10:40 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 10:40 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 10:40 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 10:40 PM
Surr: 4-Bromofluorobenzene	*105*		*77-129*	*%REC*	1	2/27/2012 10:40 PM
Surr: Trifluorotoluene	*107*		*75-130*	*%REC*	1	2/27/2012 10:40 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 1202864
Sample ID: RW6
Lab ID: 1202864-10
Collection Date: 2/22/2012 02:55 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	2/27/2012 10:58 PM
Toluene	ND		0.0010	mg/L	1	2/27/2012 10:58 PM
Ethylbenzene	ND		0.0010	mg/L	1	2/27/2012 10:58 PM
Xylenes, Total	ND		0.0030	mg/L	1	2/27/2012 10:58 PM
Surr: 4-Bromofluorobenzene	*110*		*77-129*	*%REC*	1	2/27/2012 10:58 PM
Surr: Trifluorotoluene	*110*		*75-130*	*%REC*	1	2/27/2012 10:58 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 28-Feb-12

Client: EarthCon Consultants, Inc.

Work Order: 1202864

Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R123984** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW1-120227-R123984** Units: **µg/L** Analysis Date: **2/27/2012 04:37 PM**

Client ID: Run ID: **BTEX1_120227B** SeqNo: **2700884** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*31.46*	1.0	*30*	0	*105*	*77-129*	0			
Surr: Trifluorotoluene	*32.11*	1.0	*30*	0	*107*	*75-130*	0			

LCS Sample ID: **BLCSW1-120227-R123984** Units: **µg/L** Analysis Date: **2/27/2012 04:18 PM**

Client ID: Run ID: **BTEX1_120227B** SeqNo: **2700883** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.29	1.0	20	0	101	77-126	0			
Toluene	20.65	1.0	20	0	103	80-124	0			
thylbenzene	21.12	1.0	20	0	106	76-125	0			
Xylenes, Total	62.99	3.0	60	0	105	79-124	0			
Surr: 4-Bromofluorobenzene	*34.02*	1.0	*30*	0	*113*	*77-129*	0			
Surr: Trifluorotoluene	*34.62*	1.0	*30*	0	*115*	*75-130*	0			

MS Sample ID: **1202864-01AMS** Units: **µg/L** Analysis Date: **2/27/2012 07:25 PM**

Client ID: **MW1** Run ID: **BTEX1_120227B** SeqNo: **2700896** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.25	1.0	20	1.043	101	77-126	0			
Toluene	20.45	1.0	20	0	102	80-124	0			
Ethylbenzene	21.05	1.0	20	0	105	76-125	0			
Xylenes, Total	62.72	3.0	60	0	105	79-124	0			
Surr: 4-Bromofluorobenzene	*33.94*	1.0	*30*	0	*113*	*77-129*	0			
Surr: Trifluorotoluene	*33.64*	1.0	*30*	0	*112*	*75-130*	0			

MSD Sample ID: **1202864-01AMSD** Units: **µg/L** Analysis Date: **2/27/2012 07:43 PM**

Client ID: **MW1** Run ID: **BTEX1_120227B** SeqNo: **2700897** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.61	1.0	20	1.043	103	77-126	21.25	1.66	20	
Toluene	20.82	1.0	20	0	104	80-124	20.45	1.81	20	
Ethylbenzene	21.54	1.0	20	0	108	76-125	21.05	2.31	20	
Xylenes, Total	64.42	3.0	60	0	107	79-124	62.72	2.67	20	
Surr: 4-Bromofluorobenzene	*34.88*	1.0	*30*	0	*116*	*77-129*	33.94	*2.74*	*20*	
Surr: Trifluorotoluene	*33.79*	1.0	*30*	0	*113*	*75-130*	33.64	*0.448*	*20*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 1202864
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R123984** Instrument ID **BTEX1** Method: **SW8021B**

The following samples were analyzed in this batch:

1202864-01A	1202864-02A	1202864-03A
1202864-04A	1202864-05A	1202864-06A
1202864-07A	1202864-08A	1202864-09A
1202864-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 28-Feb-12

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
WorkOrder: **1202864**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **PREMIER ENV** Date/Time Received: **24-Feb-12 09:12**

Work Order: **1202864** Received by: **PMG**

Checklist completed by Robert D. Harris (eSignature) 24-Feb-12 (Date) Reviewed by: Patricia L. Lynch (eSignature) 29-Feb-12 (Date)

Matrices: *groundwater*
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.1c	002	
Cooler(s)/Kit(s):	4264		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Trip blank not on COC; logged in without analysis.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 55059

1202864

PREMIER ENV: EarthCon Consultants, Inc.

Project: Vac to Jal Mainline #5

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Vac to Jal Mainline # 5	A	BTEX (8021)
Work Order		Project Number	205069	B	
Company Name	Premier Environmental Services	Bill To Company	Plains All America, LP	C	
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	4800 Sugar Grove Blvd. Suite 390	Address	c/o ENV. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Houston, TX 77477	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW1	2-22-12	14:00	GW	HCL	3	X										
2	MW2		14:15														
3	MW3		14:20														
4	MW4		14:25														
5	MW5		14:30														
6	MW6		14:35														
7	MW7		14:40														
8	RW4		14:45														
9	RW5		14:50														
10	RW6		14:55														

Sampler(s) Please Print & Sign: Matt Grubbs S. Diller

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Notes: 5 Day TAT.

Relinquished by:	Date:	Time:	Received by:
Matt Grubbs	2-23-12	17:30	FedEx
Relinquished by:	Date:	Time:	Received by (Laboratory):
			OK 2-24-12. 0812.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
4264.	

QC Package: (Check One Box Below)

- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

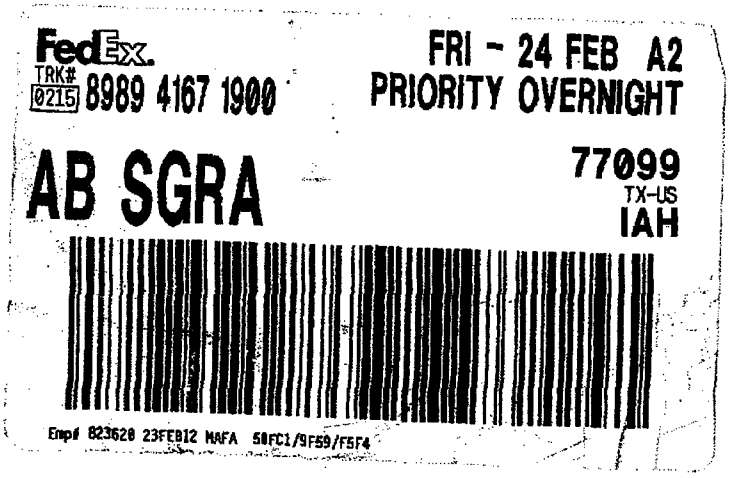
4264

CUSTODY SEAL

Date: 2-23-12 Time: 1730
Name: Matt Griggs
Comp any: Ralph Cox

Seal Broken By:

Date: 2-24-12.



01-Jun-2012

Kathleen Buxton
EarthCon Consultants, Inc.
4800 Sugar Grove Blvd.
Suite 390
Houston, TX 77477

Tel: (281) 240-5200
Fax: (281) 240-5201

Re: Vac to Jal Mainline #5 Work Order: **12051078**

Dear Kathleen,

ALS Environmental received 14 samples on 24-May-2012 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Yvan K. Ty

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 01-Jun-12

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: **12051078**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
12051078-01	MW1	Groundwater		5/22/2012 14:40	5/24/2012 08:50	☐
12051078-02	MW2	Groundwater		5/22/2012 15:05	5/24/2012 08:50	☐
12051078-03	MW3	Groundwater		5/22/2012 15:50	5/24/2012 08:50	☐
12051078-04	MW4	Groundwater		5/22/2012 15:30	5/24/2012 08:50	☐
12051078-05	MW5	Groundwater		5/22/2012 16:05	5/24/2012 08:50	☐
12051078-06	MW6	Groundwater		5/22/2012 16:20	5/24/2012 08:50	☐
12051078-07	MW7	Groundwater		5/22/2012 16:00	5/24/2012 08:50	☐
12051078-08	RW1	Groundwater		5/22/2012 14:05	5/24/2012 08:50	☐
12051078-09	RW2	Groundwater		5/22/2012 12:45	5/24/2012 08:50	☐
12051078-10	RW3	Groundwater		5/22/2012 13:25	5/24/2012 08:50	☐
12051078-11	RW4	Groundwater		5/22/2012 16:25	5/24/2012 08:50	☐
12051078-12	RW5	Groundwater		5/22/2012 15:15	5/24/2012 08:50	☐
12051078-13	RW6	Groundwater		5/22/2012 16:30	5/24/2012 08:50	☐
12051078-14	Trip Blank	Water		5/22/2012	5/24/2012 08:50	☐

Client:	EarthCon Consultants, Inc.
Project:	Vac to Jal Mainline #5
Work Order:	12051078

Case Narrative

Batch R128634, BTEX, Sample 12051078-10A: MS/MSD recoveries are for an unrelated sample.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 12051078
Sample ID: MW1 **Lab ID:** 12051078-01
Collection Date: 5/22/2012 02:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 06:48 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 06:48 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 06:48 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 06:48 AM
Surr: 4-Bromofluorobenzene	*106*		*75-129*	*%REC*	1	5/30/2012 06:48 AM
Surr: Trifluorotoluene	*97.8*		*75-130*	*%REC*	1	5/30/2012 06:48 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/25/2012**	Analyst: **LG**
Acenaphthene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Acenaphthylene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Anthracene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Benz(a)anthracene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Benzo(a)pyrene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Benzo(b)fluoranthene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Benzo(g,h,i)perylene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Benzo(k)fluoranthene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Chrysene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Dibenz(a,h)anthracene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Fluoranthene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Fluorene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Indeno(1,2,3-cd)pyrene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Naphthalene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Phenanthrene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Pyrene	ND		0.0965	µg/L	1	5/30/2012 01:11 AM
Surr: 2-Fluorobiphenyl	*116*		*40-125*	*%REC*	1	5/30/2012 01:11 AM
Surr: 4-Terphenyl-d14	*98.2*		*40-135*	*%REC*	1	5/30/2012 01:11 AM
Surr: Nitrobenzene-d5	*100*		*41-120*	*%REC*	1	5/30/2012 01:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: MW2
Lab ID: 12051078-02
Collection Date: 5/22/2012 03:05 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 07:42 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 07:42 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 07:42 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 07:42 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1	5/30/2012 07:42 AM
Surr: Trifluorotoluene	*98.9*		*75-130*	*%REC*	1	5/30/2012 07:42 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: MW3
Lab ID: 12051078-03
Collection Date: 5/22/2012 03:50 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 08:00 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 08:00 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 08:00 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 08:00 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1	5/30/2012 08:00 AM
Surr: Trifluorotoluene	*99.2*		*75-130*	*%REC*	1	5/30/2012 08:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: MW4
Lab ID: 12051078-04
Collection Date: 5/22/2012 03:30 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 08:17 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 08:17 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 08:17 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 08:17 AM
Surr: 4-Bromofluorobenzene	*110*		*75-129*	*%REC*	1	5/30/2012 08:17 AM
Surr: Trifluorotoluene	*99.8*		*75-130*	*%REC*	1	5/30/2012 08:17 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: MW5
Lab ID: 12051078-05
Collection Date: 5/22/2012 04:05 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 08:35 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 08:35 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 08:35 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 08:35 AM
Surr: 4-Bromofluorobenzene	*110*		*75-129*	*%REC*	1	5/30/2012 08:35 AM
Surr: Trifluorotoluene	*101*		*75-130*	*%REC*	1	5/30/2012 08:35 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 12051078
Sample ID: MW6 **Lab ID:** 12051078-06
Collection Date: 5/22/2012 04:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 08:53 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 08:53 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 08:53 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 08:53 AM
Surr: 4-Bromofluorobenzene	*109*		*75-129*	*%REC*	1	5/30/2012 08:53 AM
Surr: Trifluorotoluene	*100*		*75-130*	*%REC*	1	5/30/2012 08:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 12051078
Sample ID: MW7 **Lab ID:** 12051078-07
Collection Date: 5/22/2012 04:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 09:11 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 09:11 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 09:11 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 09:11 AM
Surr: 4-Bromofluorobenzene	*106*		*75-129*	*%REC*	1	5/30/2012 09:11 AM
Surr: Trifluorotoluene	*97.7*		*75-130*	*%REC*	1	5/30/2012 09:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: RW1
Lab ID: 12051078-08
Collection Date: 5/22/2012 02:05 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	**0.11**		**0.0050**	**mg/L**	5	5/31/2012 12:29 AM
Toluene	**0.066**		**0.0050**	**mg/L**	5	5/31/2012 12:29 AM
Ethylbenzene	**0.077**		**0.0050**	**mg/L**	5	5/31/2012 12:29 AM
Xylenes, Total	**0.36**		**0.015**	**mg/L**	5	5/31/2012 12:29 AM
Surr: 4-Bromofluorobenzene	*122*		*75-129*	*%REC*	5	5/31/2012 12:29 AM
Surr: Trifluorotoluene	*113*		*75-130*	*%REC*	5	5/31/2012 12:29 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/25/2012**	Analyst: **LG**
Acenaphthene	**0.167**		**0.0982**	**µg/L**	1	5/30/2012 01:30 AM
Acenaphthylene	**0.196**		**0.0982**	**µg/L**	1	5/30/2012 01:30 AM
Anthracene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Benz(a)anthracene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Benzo(a)pyrene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Benzo(b)fluoranthene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Benzo(g,h,i)perylene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Benzo(k)fluoranthene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Chrysene	**0.208**		**0.0982**	**µg/L**	1	5/30/2012 01:30 AM
Dibenz(a,h)anthracene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Fluoranthene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Fluorene	**1.17**		**0.0982**	**µg/L**	1	5/30/2012 01:30 AM
Indeno(1,2,3-cd)pyrene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Naphthalene	**17.1**		**0.393**	**µg/L**	4	5/31/2012 07:15 AM
Phenanthrene	**1.59**		**0.0982**	**µg/L**	1	5/30/2012 01:30 AM
Pyrene	ND		0.0982	µg/L	1	5/30/2012 01:30 AM
Surr: 2-Fluorobiphenyl	*114*		*40-125*	*%REC*	1	5/30/2012 01:30 AM
Surr: 2-Fluorobiphenyl	*111*		*40-125*	*%REC*	4	5/31/2012 07:15 AM
Surr: 4-Terphenyl-d14	*102*		*40-135*	*%REC*	1	5/30/2012 01:30 AM
Surr: 4-Terphenyl-d14	*106*		*40-135*	*%REC*	4	5/31/2012 07:15 AM
Surr: Nitrobenzene-d5	*118*		*41-120*	*%REC*	1	5/30/2012 01:30 AM
Surr: Nitrobenzene-d5	*86.3*		*41-120*	*%REC*	4	5/31/2012 07:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: RW2
Lab ID: 12051078-09
Collection Date: 5/22/2012 12:45 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	**0.19**		**0.0050**	**mg/L**	5	5/31/2012 01:22 AM
Toluene	**0.20**		**0.0050**	**mg/L**	5	5/31/2012 01:22 AM
Ethylbenzene	**0.18**		**0.0050**	**mg/L**	5	5/31/2012 01:22 AM
Xylenes, Total	**0.49**		**0.015**	**mg/L**	5	5/31/2012 01:22 AM
Surr: 4-Bromofluorobenzene	*126*		*75-129*	*%REC*	5	5/31/2012 01:22 AM
Surr: Trifluorotoluene	*99.8*		*75-130*	*%REC*	5	5/31/2012 01:22 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/25/2012**	Analyst: **LG**
Acenaphthene	**1.12**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Acenaphthylene	**2.47**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Anthracene	**0.579**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Benz(a)anthracene	**0.852**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Benzo(a)pyrene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Benzo(b)fluoranthene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Benzo(g,h,i)perylene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Benzo(k)fluoranthene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Chrysene	**3.71**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Dibenz(a,h)anthracene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Fluoranthene	**0.907**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Fluorene	**12.6**		**0.971**	**µg/L**	10	5/31/2012 07:35 AM
Indeno(1,2,3-cd)pyrene	ND		0.0971	µg/L	1	5/30/2012 01:50 AM
Naphthalene	**82.5**		**0.971**	**µg/L**	10	5/31/2012 07:35 AM
Phenanthrene	**24.8**		**0.971**	**µg/L**	10	5/31/2012 07:35 AM
Pyrene	**0.756**		**0.0971**	**µg/L**	1	5/30/2012 01:50 AM
Surr: 2-Fluorobiphenyl	*94.8*		*40-125*	*%REC*	1	5/30/2012 01:50 AM
Surr: 2-Fluorobiphenyl	*100*		*40-125*	*%REC*	10	5/31/2012 07:35 AM
Surr: 4-Terphenyl-d14	*106*		*40-135*	*%REC*	1	5/30/2012 01:50 AM
Surr: 4-Terphenyl-d14	*105*		*40-135*	*%REC*	10	5/31/2012 07:35 AM
Surr: Nitrobenzene-d5	*95.4*		*41-120*	*%REC*	1	5/30/2012 01:50 AM
Surr: Nitrobenzene-d5	*97.9*		*41-120*	*%REC*	10	5/31/2012 07:35 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: RW3
Lab ID: 12051078-10
Collection Date: 5/22/2012 01:25 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	**0.31**		**0.0050**	**mg/L**	5	5/29/2012 10:48 PM
Toluene	**0.66**		**0.0050**	**mg/L**	5	5/29/2012 10:48 PM
Ethylbenzene	**0.56**		**0.0050**	**mg/L**	5	5/29/2012 10:48 PM
Xylenes, Total	**1.1**		**0.015**	**mg/L**	5	5/29/2012 10:48 PM
Surr: 4-Bromofluorobenzene	*119*		*75-129*	*%REC*	5	5/29/2012 10:48 PM
Surr: Trifluorotoluene	*127*		*75-130*	*%REC*	5	5/29/2012 10:48 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/25/2012**	Analyst: **LG**
Acenaphthene	**0.874**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Acenaphthylene	**1.26**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Anthracene	**1.13**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Benz(a)anthracene	ND		0.0988	µg/L	1	5/30/2012 02:09 AM
Benzo(a)pyrene	ND		0.0988	µg/L	1	5/30/2012 02:09 AM
Benzo(b)fluoranthene	**0.153**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Benzo(g,h,i)perylene	ND		0.0988	µg/L	1	5/30/2012 02:09 AM
Benzo(k)fluoranthene	**0.188**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Chrysene	**2.01**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Dibenz(a,h)anthracene	ND		0.0988	µg/L	1	5/30/2012 02:09 AM
Fluoranthene	**0.706**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Fluorene	**7.16**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Indeno(1,2,3-cd)pyrene	ND		0.0988	µg/L	1	5/30/2012 02:09 AM
Naphthalene	**42.6**		**0.494**	**µg/L**	5	5/31/2012 07:54 AM
Phenanthrene	**20.7**		**0.494**	**µg/L**	5	5/31/2012 07:54 AM
Pyrene	**0.646**		**0.0988**	**µg/L**	1	5/30/2012 02:09 AM
Surr: 2-Fluorobiphenyl	*89.8*		*40-125*	*%REC*	1	5/30/2012 02:09 AM
Surr: 2-Fluorobiphenyl	*102*		*40-125*	*%REC*	5	5/31/2012 07:54 AM
Surr: 4-Terphenyl-d14	*107*		*40-135*	*%REC*	1	5/30/2012 02:09 AM
Surr: 4-Terphenyl-d14	*104*		*40-135*	*%REC*	5	5/31/2012 07:54 AM
Surr: Nitrobenzene-d5	*89.0*		*41-120*	*%REC*	1	5/30/2012 02:09 AM
Surr: Nitrobenzene-d5	*95.8*		*41-120*	*%REC*	5	5/31/2012 07:54 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: RW4
Lab ID: 12051078-11
Collection Date: 5/22/2012 04:25 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/29/2012 11:41 PM
Toluene	ND		0.0010	mg/L	1	5/29/2012 11:41 PM
Ethylbenzene	ND		0.0010	mg/L	1	5/29/2012 11:41 PM
Xylenes, Total	ND		0.0030	mg/L	1	5/29/2012 11:41 PM
Surr: 4-Bromofluorobenzene	*106*		*75-129*	*%REC*	1	5/29/2012 11:41 PM
Surr: Trifluorotoluene	*108*		*75-130*	*%REC*	1	5/29/2012 11:41 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
Work Order: 12051078
Sample ID: RW5
Lab ID: 12051078-12
Collection Date: 5/22/2012 03:15 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 12:34 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 12:34 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 12:34 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 12:34 AM
Surr: 4-Bromofluorobenzene	*106*		*75-129*	*%REC*	1	5/30/2012 12:34 AM
Surr: Trifluorotoluene	*108*		*75-130*	*%REC*	1	5/30/2012 12:34 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Jun-12*

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5 **Work Order:** 12051078
Sample ID: RW6 **Lab ID:** 12051078-13
Collection Date: 5/22/2012 04:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **SMA**
Benzene	ND		0.0010	mg/L	1	5/30/2012 12:52 AM
Toluene	ND		0.0010	mg/L	1	5/30/2012 12:52 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/30/2012 12:52 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/30/2012 12:52 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1	5/30/2012 12:52 AM
Surr: Trifluorotoluene	*111*		*75-130*	*%REC*	1	5/30/2012 12:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Batch ID: **R128631** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW2-120529-R128631** Units: **µg/L** Analysis Date: **5/30/2012 01:09 AM**

Client ID: Run ID: **BTEX1_120529D** SeqNo: **2799850** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*31.72*	1.0	*30*	0	*106*	*75-129*	0			
Surr: Trifluorotoluene	*29.66*	1.0	*30*	0	*98.9*	*75-130*	0			

LCS Sample ID: **BLCSW2-120529-R128631** Units: **µg/L** Analysis Date: **5/30/2012 12:33 AM**

Client ID: Run ID: **BTEX1_120529D** SeqNo: **2799848** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.14	1.0	20	0	95.7	75-126	0			
Toluene	18.8	1.0	20	0	94	75-125	0			
Ethylbenzene	18.59	1.0	20	0	93	75-125	0			
Xylenes, Total	55.09	3.0	60	0	91.8	75-125	0			
Surr: 4-Bromofluorobenzene	*33.85*	1.0	*30*	0	*113*	*75-129*	0			
Surr: Trifluorotoluene	*31.15*	1.0	*30*	0	*104*	*75-130*	0			

LCSD Sample ID: **BLCSDW2-120529-R128631** Units: **µg/L** Analysis Date: **5/30/2012 12:51 AM**

Client ID: Run ID: **BTEX1_120529D** SeqNo: **2799849** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.52	1.0	20	0	97.6	75-126	19.14	1.99	20	
Toluene	19.2	1.0	20	0	96	75-125	18.8	2.16	20	
Ethylbenzene	18.83	1.0	20	0	94.1	75-125	18.59	1.23	20	
Xylenes, Total	55.66	3.0	60	0	92.8	75-125	55.09	1.04	20	
Surr: 4-Bromofluorobenzene	*32.99*	1.0	*30*	0	*110*	*75-129*	33.85	*2.55*	*20*	
Surr: Trifluorotoluene	*31.32*	1.0	*30*	0	*104*	*75-130*	31.15	*0.547*	*20*	

MS Sample ID: **12051065-35ZMS** Units: **µg/L** Analysis Date: **5/30/2012 02:56 AM**

Client ID: Run ID: **BTEX1_120529D** SeqNo: **2799855** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2345	100	2000	307	102	75-126	0			
Toluene	2021	100	2000	0	101	75-125	0			
Ethylbenzene	1968	100	2000	0	98.4	75-125	0			
Xylenes, Total	5861	*300*	*6000*	*0*	*97.7*	75-125	*0*			
Surr: 4-Bromofluorobenzene	*3303*	100	*3000*	0	*110*	*75-129*	0			
Surr: Trifluorotoluene	*3158*	100	*3000*	0	*105*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R128631** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **12051065-35ZMSD** Units: **µg/L** Analysis Date: **5/30/2012 03:14 AM**

Client ID: Run ID: **BTEX1_120529D** SeqNo: **2799856** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2356	100	2000	307	102	77-126	2345	0.484	20	
Toluene	2025	100	2000	0	101	75-125	2021	0.18	20	
Ethylbenzene	1971	100	2000	0	98.6	76-125	1968	0.158	20	
Xylenes, Total	5864	300	6000	0	97.7	75-125	5861	0.0514	20	
Surr: 4-Bromofluorobenzene	*3266*	100	*3000*	0	*109*	*75-129*	3303	*1.15*	*20*	
Surr: Trifluorotoluene	*3130*	100	*3000*	0	*104*	*75-130*	3158	*0.874*	*20*	

The following samples were analyzed in this batch:

12051078-01A	12051078-02A	12051078-03A
12051078-04A	12051078-05A	12051078-06A
12051078-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

lient: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R128634** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKW1-120529-R128634** Units: **µg/L** Analysis Date: **5/29/2012 09:19 PM**
Client ID: Run ID: **BTEX3_120529B** SeqNo: **2799942** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*32.57*	1.0	*30*	0	*109*	*75-129*	0			
Surr: Trifluorotoluene	*34.36*	1.0	*30*	0	*115*	*75-130*	0			

LCS Sample ID: **BLCSW1-120529-R128634** Units: **µg/L** Analysis Date: **5/29/2012 08:43 PM**
Client ID: Run ID: **BTEX3_120529B** SeqNo: **2799940** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.18	1.0	20	0	106	75-126	0			
Toluene	22.23	1.0	20	0	111	75-125	0			
Ethylbenzene	22.15	1.0	20	0	111	75-125	0			
lenes, Total	66.23	3.0	60	0	110	75-125	0			
Surr: 4-Bromofluorobenzene	*33.41*	1.0	*30*	0	*111*	*75-129*	0			
Surr: Trifluorotoluene	*34.79*	1.0	*30*	0	*116*	*75-130*	0			

LCSD Sample ID: **BLCSDW1-120529-R128634** Units: **µg/L** Analysis Date: **5/29/2012 09:01 PM**
Client ID: Run ID: **BTEX3_120529B** SeqNo: **2799941** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.95	1.0	20	0	110	75-126	21.18	3.56	20	
Toluene	22.84	1.0	20	0	114	75-125	22.23	2.73	20	
Ethylbenzene	23.01	1.0	20	0	115	75-125	22.15	3.84	20	
Xylenes, Total	69.03	3.0	60	0	115	75-125	66.23	4.13	20	
Surr: 4-Bromofluorobenzene	*32.4*	1.0	*30*	0	*108*	*75-129*	33.41	*3.06*	*20*	
Surr: Trifluorotoluene	*34.11*	1.0	*30*	0	*114*	*75-130*	34.79	*1.98*	*20*	

MS Sample ID: **12051078-10AMS** Units: **µg/L** Analysis Date: **5/29/2012 11:05 PM**
Client ID: **RW3** Run ID: **BTEX3_120529B** SeqNo: **2799944** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	416	5.0	100	312.8	103	75-126	0			
Toluene	786.2	5.0	100	664.9	121	75-125	0			O
Ethylbenzene	687	5.0	100	561.1	126	75-125	0			SO
Xylenes, Total	1481	15	300	1093	129	75-125	0			S
Surr: 4-Bromofluorobenzene	*159.8*	5.0	*150*	0	*107*	*75-129*	0			
Surr: Trifluorotoluene	*175*	5.0	*150*	0	*117*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

'lient: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R128634** Instrument ID **BTEX3** Method: **SW8021B**

MSD Sample ID: **12051078-10AMSD** Units: **µg/L** Analysis Date: **5/29/2012 11:23 PM**
Client ID: **RW3** Run ID: **BTEX3_120529B** SeqNo: **2799945** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	415.2	5.0	100	312.8	102	77-126	416	0.194	20	
Toluene	769.6	5.0	100	664.9	105	75-125	786.2	2.13	20	O
Ethylbenzene	679.2	5.0	100	561.1	118	76-125	687	1.13	20	O
Xylenes, Total	1472	15	300	1093	126	75-125	1481	0.619	20	S
Surr: 4-Bromofluorobenzene	*164*	5.0	*150*	0	*109*	*75-129*	159.8	*2.56*	*20*	
Surr: Trifluorotoluene	*175*	5.0	*150*	0	*117*	*75-130*	*175*	*0.0155*	*20*	

The following samples were analyzed in this batch:

12051078-10A	12051078-11A	12051078-12A
12051078-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

lient: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R128705** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW2-120530-R128705** Units: **µg/L** Analysis Date: **5/30/2012 10:25 PM**
Client ID: Run ID: **BTEX1_120530D** SeqNo: **2801871** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*32.28*	1.0	*30*	0	*108*	*75-129*	0			
Surr: Trifluorotoluene	*29.29*	1.0	*30*	0	*97.6*	*75-130*	0			

LCS Sample ID: **BLCSW2-120530-R128705** Units: **µg/L** Analysis Date: **5/30/2012 09:49 PM**
Client ID: Run ID: **BTEX1_120530D** SeqNo: **2801869** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.88	1.0	20	0	99.4	75-126	0			
Toluene	19.49	1.0	20	0	97.5	75-125	0			
Ethylbenzene	19.19	1.0	20	0	95.9	75-125	0			
ılenes, Total	57.02	3.0	60	0	95	75-125	0			
Surr: 4-Bromofluorobenzene	*32.38*	1.0	*30*	0	*108*	*75-129*	0			
Surr: Trifluorotoluene	*30.19*	1.0	*30*	0	*101*	*75-130*	0			

LCSD Sample ID: **BLCSDW2-120530-R128705** Units: **µg/L** Analysis Date: **5/30/2012 10:07 PM**
Client ID: Run ID: **BTEX1_120530D** SeqNo: **2801870** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.78	1.0	20	0	98.9	75-126	19.88	0.51	20	
Toluene	19.36	1.0	20	0	96.8	75-125	19.49	0.651	20	
Ethylbenzene	19.07	1.0	20	0	95.4	75-125	19.19	0.597	20	
Xylenes, Total	56.66	3.0	60	0	94.4	75-125	57.02	0.63	20	
Surr: 4-Bromofluorobenzene	*32.86*	1.0	*30*	0	*110*	*75-129*	32.38	*1.46*	*20*	
Surr: Trifluorotoluene	*30.67*	1.0	*30*	0	*102*	*75-130*	30.19	*1.56*	*20*	

MS Sample ID: **12051129-01AMS** Units: **µg/L** Analysis Date: **5/31/2012 02:33 AM**
Client ID: Run ID: **BTEX1_120530D** SeqNo: **2801883** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1588	50	1000	548.5	104	75-126	0			
Toluene	2553	50	1000	1462	109	75-125	0			
Ethylbenzene	1608	50	1000	595.8	101	75-125	0			
Xylenes, Total	*4504*	*150*	3000	*1527*	*99.2*	*75-125*	0			
Surr: 4-Bromofluorobenzene	*1682*	50	*1500*	0	*112*	*75-129*	0			
Surr: Trifluorotoluene	*1497*	50	*1500*	0	*99.8*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R128705** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **12051129-01AMSD** Units: **µg/L** Analysis Date: **5/31/2012 02:51 AM**
Client ID: Run ID: **BTEX1_120530D** SeqNo: **2801884** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1566	50	1000	548.5	102	77-126	1588	1.36	20	
Toluene	2505	50	1000	1462	104	75-125	2553	1.89	20	
Ethylbenzene	1599	50	1000	595.8	100	76-125	1608	0.575	20	
Xylenes, Total	4478	150	3000	1527	98.4	75-125	4504	0.582	20	
Surr: 4-Bromofluorobenzene	*1693*	50	*1500*	0	*113*	*75-129*	1682	*0.641*	*20*	
Surr: Trifluorotoluene	*1490*	50	*1500*	0	*99.3*	*75-130*	1497	*0.434*	*20*	

The following samples were analyzed in this batch: 12051078-08A 12051078-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **61391** Instrument ID **SV-6** Method: **SW8270**

MBLK Sample ID: **SBLKL1-120525-61391** Units: **µg/L** Analysis Date: **5/29/2012 09:34 PM**

Client ID: Run ID: **SV-6_120529B** SeqNo: **2804405** Prep Date: **5/25/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benz(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Chrysene	ND	0.10								
Dibenz(a,h)anthracene	ND	0.10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								
Surr: 2-Fluorobiphenyl	*3.66*	0.10	*3.03*	0	*121*	*40-125*	0			
Surr: 4-Terphenyl-d14	*3.406*	0.10	*3.03*	0	*112*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.172*	0.10	*3.03*	0	*105*	*41-120*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **61391** Instrument ID **SV-6** Method: **SW8270**

LCS Sample ID: **SLCSL1-120525-61391** Units: **µg/L** Analysis Date: **5/29/2012 10:16 PM**
Client ID: Run ID: **SV-6_120529B** SeqNo: **2804406** Prep Date: **5/25/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	3.11	0.10	3.03	0	103	40-140	0			
Acenaphthylene	3.237	0.10	3.03	0	107	40-140	0			
Anthracene	3.4	0.10	3.03	0	112	40-140	0			
Benz(a)anthracene	2.882	0.10	3.03	0	95.1	40-140	0			
Benzo(a)pyrene	2.771	0.10	3.03	0	91.4	40-140	0			
Benzo(b)fluoranthene	2.977	0.10	3.03	0	98.2	40-140	0			
Benzo(g,h,i)perylene	2.162	0.10	3.03	0	71.4	40-140	0			
Benzo(k)fluoranthene	2.696	0.10	3.03	0	89	40-140	0			
Chrysene	3.16	0.10	3.03	0	104	40-140	0			
Dibenz(a,h)anthracene	2.365	0.10	3.03	0	78	40-140	0			
Fluoranthene	3.134	0.10	3.03	0	103	40-140	0			
Fluorene	2.771	0.10	3.03	0	91.4	40-140	0			
Indeno(1,2,3-cd)pyrene	2.383	0.10	3.03	0	78.6	40-140	0			
Naphthalene	3.013	0.10	3.03	0	99.4	40-140	0			
Phenanthrene	3.056	0.10	3.03	0	101	40-140	0			
yrene	3.048	0.10	3.03	0	101	40-140	0			
Surr: 2-Fluorobiphenyl	*3.61*	0.10	*3.03*	0	*119*	*40-125*	0			
Surr: 4-Terphenyl-d14	*3.066*	0.10	*3.03*	0	*101*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.209*	0.10	*3.03*	0	*106*	*41-120*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon Consultants, Inc.
Work Order: 12051078
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **61391** Instrument ID **SV-6** Method: **SW8270**

LCSD Sample ID: **SLCSDL1-120525-61391** Units: **µg/L** Analysis Date: **5/29/2012 10:35 PM**
Client ID: Run ID: **SV-6_120529B** SeqNo: **2804407** Prep Date: **5/25/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	3.027	0.10	3.03	0	99.9	40-140	3.11	2.69	25	
Acenaphthylene	3.155	0.10	3.03	0	104	40-140	3.237	2.58	25	
Anthracene	3.322	0.10	3.03	0	110	40-140	3.4	2.3	25	
Benz(a)anthracene	2.889	0.10	3.03	0	95.3	40-140	2.882	0.221	25	
Benzo(a)pyrene	2.958	0.10	3.03	0	97.6	40-140	2.771	6.54	25	
Benzo(b)fluoranthene	2.924	0.10	3.03	0	96.5	40-140	2.977	1.77	25	
Benzo(g,h,i)perylene	2.477	0.10	3.03	0	81.7	40-140	2.162	13.5	25	
Benzo(k)fluoranthene	3.062	0.10	3.03	0	101	40-140	2.696	12.7	25	
Chrysene	3.017	0.10	3.03	0	99.6	40-140	3.16	4.62	25	
Dibenz(a,h)anthracene	2.633	0.10	3.03	0	86.9	40-140	2.365	10.7	25	
Fluoranthene	3.11	0.10	3.03	0	103	40-140	3.134	0.769	25	
Fluorene	2.891	0.10	3.03	0	95.4	40-140	2.771	4.23	25	
Indeno(1,2,3-cd)pyrene	2.548	0.10	3.03	0	84.1	40-140	2.383	6.67	25	
Naphthalene	3.059	0.10	3.03	0	101	40-140	3.013	1.5	25	
Phenanthrene	3.025	0.10	3.03	0	99.8	40-140	3.056	1	25	
yrene	3.043	0.10	3.03	0	100	40-140	3.048	0.163	25	
Surr: 2-Fluorobiphenyl	*3.544*	0.10	*3.03*	0	*117*	*40-125*	3.61	*1.84*	*25*	
Surr: 4-Terphenyl-d14	*3.078*	0.10	*3.03*	0	*102*	*40-135*	3.066	*0.393*	*25*	
Surr: Nitrobenzene-d5	*2.812*	0.10	*3.03*	0	*92.8*	*41-120*	3.209	*13.2*	*25*	

The following samples were analyzed in this batch:

12051078-01B	12051078-08B	12051078-09B
12051078-10B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 01-Jun-12

Client: EarthCon Consultants, Inc.
Project: Vac to Jal Mainline #5
WorkOrder: **12051078**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **PREMIER ENV** Date/Time Received: **24-May-12 08:50**

Work Order: **12051078** Received by: **RDN**

Checklist completed by Raymond N Gamboa (eSignature) 24-May-12 (Date) Reviewed by: Patricia L. Lynch (eSignature) 01-Jun-12 (Date)

Matrices: Groundwater, Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.1c	003	
Cooler(s)/Kit(s):	4642		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Trip blank not on COC--logged in without analysis.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 61264

12051078

PREMIER ENV: EarthCon Consultants, Inc.

Project: Vac to Jal Mainline #5

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Vac to Jal Mainline #5	A	BTEX (8021)
Work Order		Project Number		B	PAH (8270) Low Level
Company Name	EarthCon Consultants, Inc.	Bill To Company	Plains All America, LP	C	
Send Report To	Kathleen Boxton	Invoice Attn		D	
Address	4800 Sugar Grove Blvd. Suite 390	Address	c/o ENV. Accounts Payable P.O. Box 4648	E F	
City/State/Zip	Houston, TX 77477	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW1	5-22	1440	GW		6 4 500	X	X									
2	MW2		1505			3	X										
3	MW3		1530				X										
4	MW4		1530				X										
5	MW5		1605				X										
6	MW6		1620				X										
7	MW7		1600			3	X										
8	RW1		1405			6	X	X									
9	RW2		1245			6	X	X									
10	RW3	5-22	1325	GW		6	X	X									

Sampler(s) Please Print & Sign: SHANE A. DILLER

Shipment Method: FED EX

Required Turnaround Time: (Check Box) ☐ Std 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: | Date: 5-23 | Time: 0900 | Received by:

Relinquished by: | Date: 5/24/12 | Time: 8:50 | Received by (Laboratory): RW ALS.

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Notes: 5 Days TAT

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Char , WV +1 304 356
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

ALS Environmental

Chain of stody Form

Page 2 of 2

COC ID: 61266

ALS Project Manager:

ALS Work Order #: 1205078

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Vac to Jal Mainline #5	A	BTEX (8021)
Work Order		Project Number		B	PAH (8270) Low Level
Company Name	EarthCon Consultants, Inc.	Bill To Company	Plains All America, LP	C	
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	4800 Sugar Grove Blvd. Suite 390	Address	c/o ENV. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Houston, TX 77477	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW4	5-22	1625	GW	HCl	3	X										
2	RW5	5-22	1515	GW	HCl	3	X										
3	RW6	5-22	1630	GW	HCl	3	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: SHANE A. DULLER

Shipment Method: FED EX

Required Turnaround Time: (Check Box) ☐ 1 Std 10 WK Days ☑ 5 WK Days ☐ Other 2 WK Days ☐ 24 Hour

Results Due Date:

	Date	Time		
Relinquished by:	5-23	0900	Received by:	
Relinquished by:	5/24/11	08:50	Received by (Laboratory): RN ALS	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: 5 Days TAT.

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

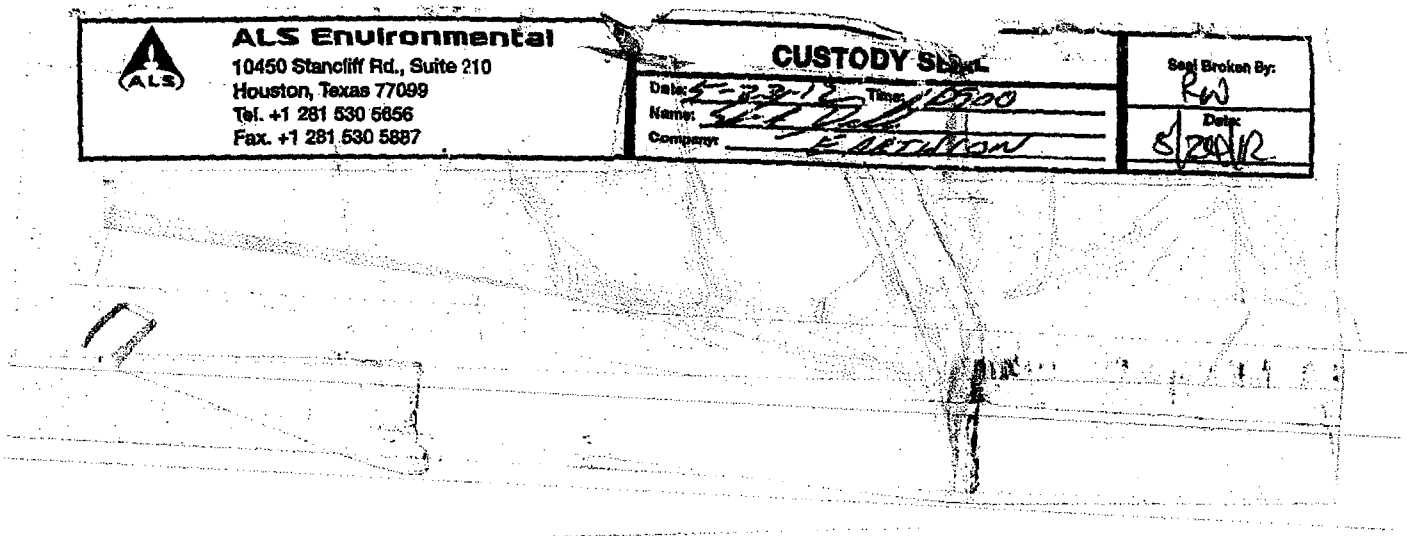
Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

WO# 1251078

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5-23-12 Time: 0900
Name: [illegible]
Company: Eastham

Seal Broken By: RW
Date: 5/24/12



This portion can be removed for Recipient's records.

FedEx Tracking Number 899652666674

Date 5-23-12

Sender's Name SHANE DILLER Phone 432 2302241

Company Eastham

Address 30 W. Industrial Loop I Dept/Floor/Suite/Room

City MIDLAND State TX ZIP 79701

Your Internal Billing Reference 705019

20-Sep-2012

Kathleen Buxton
Entech Consulting Corp.
21 Waterway Avenue
Suite 300
The Woodlands, TX 77380

Tel: (979) 997-2338
Fax: (281) 362-2704

Re: Vac to Jal Mainline #5 Work Order: **1209475**

Dear Kathleen,

ALS Environmental received 11 samples on 14-Sep-2012 09:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 20-Sep-12

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: **1209475**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1209475-01	MW 1	Water		9/11/2012 15:20	9/14/2012 09:10	☐
1209475-02	MW 2	Water		9/11/2012 14:55	9/14/2012 09:10	☐
1209475-03	MW 3	Water		9/11/2012 14:45	9/14/2012 09:10	☐
1209475-04	MW 4	Water		9/11/2012 14:50	9/14/2012 09:10	☐
1209475-05	MW 5	Water		9/11/2012 15:35	9/14/2012 09:10	☐
1209475-06	MW 6	Water		9/11/2012 15:15	9/14/2012 09:10	☐
1209475-07	MW 7	Water		9/11/2012 15:25	9/14/2012 09:10	☐
1209475-08	RW 4	Water		9/11/2012 15:05	9/14/2012 09:10	☐
1209475-09	RW 5	Water		9/11/2012 15:00	9/14/2012 09:10	☐
1209475-10	RW 6	Water		9/11/2012 15:30	9/14/2012 09:10	☐
1209475-11	Trip Blank 082012-78	Water		9/11/2012	9/14/2012 09:10	☐

ALS Environmental

Date: 20-Sep-12

Client:	Entech Consulting Corp.
Project:	Vac to Jal Mainline #5
Work Order:	1209475

Case Narrative

No Exceptions

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1209475
Sample ID: MW 1
Lab ID: 1209475-01
Collection Date: 9/11/2012 03:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 06:36 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 06:36 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 06:36 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 06:36 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 06:36 PM
Surr: 4-Bromofluorobenzene	*111*		*75-129*	*%REC*	1	9/18/2012 06:36 PM
Surr: Trifluorotoluene	*93.8*		*75-130*	*%REC*	1	9/18/2012 06:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1209475
Sample ID: MW 2
Lab ID: 1209475-02
Collection Date: 9/11/2012 02:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 06:53 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 06:53 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 06:53 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 06:53 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 06:53 PM
Surr: 4-Bromofluorobenzene	*95.9*		*75-129*	*%REC*	1	9/18/2012 06:53 PM
Surr: Trifluorotoluene	*83.1*		*75-130*	*%REC*	1	9/18/2012 06:53 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1209475
Sample ID: MW 3
Lab ID: 1209475-03
Collection Date: 9/11/2012 02:45 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 07:11 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 07:11 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 07:11 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 07:11 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 07:11 PM
Surr: 4-Bromofluorobenzene	*110*		*75-129*	*%REC*	1	9/18/2012 07:11 PM
Surr: Trifluorotoluene	*103*		*75-130*	*%REC*	1	9/18/2012 07:11 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1209475
Sample ID: MW 4
Lab ID: 1209475-04
Collection Date: 9/11/2012 02:50 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 07:29 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 07:29 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 07:29 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 07:29 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 07:29 PM
Surr: 4-Bromofluorobenzene	*108*		*75-129*	*%REC*	1	9/18/2012 07:29 PM
Surr: Trifluorotoluene	*103*		*75-130*	*%REC*	1	9/18/2012 07:29 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5 **Work Order:** 1209475
Sample ID: MW 5 **Lab ID:** 1209475-05
Collection Date: 9/11/2012 03:35 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 07:47 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 07:47 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 07:47 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 07:47 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 07:47 PM
Surr: 4-Bromofluorobenzene	*108*		*75-129*	*%REC*	1	9/18/2012 07:47 PM
Surr: Trifluorotoluene	*102*		*75-130*	*%REC*	1	9/18/2012 07:47 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5 **Work Order:** 1209475
Sample ID: MW 6 **Lab ID:** 1209475-06
Collection Date: 9/11/2012 03:15 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 08:04 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 08:04 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 08:04 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 08:04 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 08:04 PM
Surr: 4-Bromofluorobenzene	*110*		*75-129*	*%REC*	1	9/18/2012 08:04 PM
Surr: Trifluorotoluene	*104*		*75-130*	*%REC*	1	9/18/2012 08:04 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5 **Work Order:** 1209475
Sample ID: MW 7 **Lab ID:** 1209475-07
Collection Date: 9/11/2012 03:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 08:22 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 08:22 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 08:22 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 08:22 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 08:22 PM
Surr: 4-Bromofluorobenzene	*109*		*75-129*	*%REC*	1	9/18/2012 08:22 PM
Surr: Trifluorotoluene	*106*		*75-130*	*%REC*	1	9/18/2012 08:22 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5 **Work Order:** 1209475
Sample ID: RW 4 **Lab ID:** 1209475-08
Collection Date: 9/11/2012 03:05 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 08:40 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 08:40 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 08:40 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 08:40 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 08:40 PM
Surr: 4-Bromofluorobenzene	*105*		*75-129*	*%REC*	1	9/18/2012 08:40 PM
Surr: Trifluorotoluene	*102*		*75-130*	*%REC*	1	9/18/2012 08:40 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5 **Work Order:** 1209475
Sample ID: RW 5 **Lab ID:** 1209475-09
Collection Date: 9/11/2012 03:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/20/2012 04:07 AM
Toluene	ND		1.0	µg/L	1	9/20/2012 04:07 AM
Ethylbenzene	ND		1.0	µg/L	1	9/20/2012 04:07 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/20/2012 04:07 AM
Xylenes, Total	ND		3.0	µg/L	1	9/20/2012 04:07 AM
Surr: 4-Bromofluorobenzene	*100*		*75-129*	*%REC*	1	9/20/2012 04:07 AM
Surr: Trifluorotoluene	*105*		*75-130*	*%REC*	1	9/20/2012 04:07 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1209475
Sample ID: RW 6
Lab ID: 1209475-10
Collection Date: 9/11/2012 03:30 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			**SW8021B**			Analyst: **SMA**
Benzene	ND		1.0	µg/L	1	9/18/2012 02:51 PM
Toluene	ND		1.0	µg/L	1	9/18/2012 02:51 PM
Ethylbenzene	ND		1.0	µg/L	1	9/18/2012 02:51 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/18/2012 02:51 PM
Xylenes, Total	ND		3.0	µg/L	1	9/18/2012 02:51 PM
Surr: 4-Bromofluorobenzene	*109*		*75-129*	*%REC*	1	9/18/2012 02:51 PM
Surr: Trifluorotoluene	*95.8*		*75-130*	*%REC*	1	9/18/2012 02:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Batch ID: **R135158** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW1-120918-R135158** Units: **µg/L** Analysis Date: **9/18/2012 01:57 PM**

Client ID: Run ID: **BTEX1_120918A** SeqNo: **2945869** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether	ND	5.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*34.1*	1.0	*30*	0	*114*	*75-129*	0			
Surr: Trifluorotoluene	*29.25*	1.0	*30*	0	*97.5*	*75-130*	0			

LCS Sample ID: **BLCSW1-120918-R135158** Units: **µg/L** Analysis Date: **9/18/2012 01:22 PM**

Client ID: Run ID: **BTEX1_120918A** SeqNo: **2945867** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.81	1.0	20	0	89.1	75-126	0			
oluene	18.59	1.0	20	0	93	75-125	0			
Ethylbenzene	20.47	1.0	20	0	102	75-125	0			
Methyl tert-butyl ether	88.11	5.0	100	0	88.1	75-128	0			
Xylenes, Total	60.87	3.0	60	0	101	75-125	0			
Surr: 4-Bromofluorobenzene	*35.1*	1.0	*30*	0	*117*	*75-129*	0			
Surr: Trifluorotoluene	*29.31*	1.0	*30*	0	*97.7*	*75-130*	0			

LCSD Sample ID: **BLCSDW1-120918-R135158** Units: **µg/L** Analysis Date: **9/18/2012 01:39 PM**

Client ID: Run ID: **BTEX1_120918A** SeqNo: **2945868** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.23	1.0	20	0	86.2	75-126	17.81	3.32	20	
Toluene	17.95	1.0	20	0	89.7	75-125	18.59	3.51	20	
Ethylbenzene	19.54	1.0	20	0	97.7	75-125	20.47	4.61	20	
Methyl tert-butyl ether	82.52	5.0	100	0	82.5	75-128	88.11	6.56	20	
Xylenes, Total	57.96	3.0	60	0	96.6	75-125	60.87	4.9	20	
Surr: 4-Bromofluorobenzene	*35.6*	1.0	*30*	0	*119*	*75-129*	35.1	*1.44*	*20*	
Surr: Trifluorotoluene	*30.02*	1.0	*30*	0	*100*	*75-130*	29.31	*2.39*	*20*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entech Consulting Corp.
Work Order: 1209475
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R135158** Instrument ID **BTEX1** Method: **SW8021B**

MS Sample ID: **1209475-10AMS** Units: **µg/L** Analysis Date: **9/18/2012 03:08 PM**
Client ID: **RW 6** Run ID: **BTEX1_120918A** SeqNo: **2945875** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.87	1.0	20	0	94.3	75-126	0			
Toluene	19.3	1.0	20	0	96.5	75-125	0			
Ethylbenzene	20.32	1.0	20	0	102	75-125	0			
Methyl tert-butyl ether	93.12	5.0	100	0	93.1	75-128	0			
Xylenes, Total	59.74	3.0	60	0	99.6	75-125	0			
Surr: 4-Bromofluorobenzene	*32.9*	1.0	*30*	0	*110*	*75-129*	0			
Surr: Trifluorotoluene	*28.73*	1.0	*30*	0	*95.8*	*75-130*	0			

MSD Sample ID: **1209475-10AMSD** Units: **µg/L** Analysis Date: **9/18/2012 03:26 PM**
Client ID: **RW 6** Run ID: **BTEX1_120918A** SeqNo: **2945877** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.91	1.0	20	0	94.5	77-126	18.87	0.202	20	
Toluene	19.33	1.0	20	0	96.6	75-125	19.3	0.136	20	
Ethylbenzene	20.43	1.0	20	0	102	76-125	20.32	0.542	20	
Methyl tert-butyl ether	94.91	5.0	100	0	94.9	75-128	93.12	1.9	20	
Xylenes, Total	60.46	3.0	60	0	101	75-125	59.74	1.2	20	
Surr: 4-Bromofluorobenzene	*33.39*	1.0	*30*	0	*111*	*75-129*	32.9	*1.49*	*20*	
Surr: Trifluorotoluene	*28.78*	1.0	*30*	0	*95.9*	*75-130*	28.73	*0.187*	*20*	

The following samples were analyzed in this batch:

1209475-01A	1209475-02A	1209475-03A
1209475-04A	1209475-05A	1209475-06A
1209475-07A	1209475-08A	1209475-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entech Consulting Corp.
Work Order: 1209475
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R135276** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **BBLKW1-120919-R135276** Units: **µg/L** Analysis Date: **9/19/2012 08:25 PM**
Client ID: Run ID: **BTEX1_120919A** SeqNo: **2948487** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether	ND	5.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*30.25*	1.0	*30*	0	*101*	*75-129*	0			
Surr: Trifluorotoluene	*32.42*	1.0	*30*	0	*108*	*75-130*	0			

LCS Sample ID: **BLCSW1-120919-R135276** Units: **µg/L** Analysis Date: **9/19/2012 07:50 PM**
Client ID: Run ID: **BTEX1_120919A** SeqNo: **2948485** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.08	1.0	20	0	95.4	75-126	0			
Toluene	18.81	1.0	20	0	94	75-125	0			
Ethylbenzene	18.34	1.0	20	0	91.7	75-125	0			
Methyl tert-butyl ether	88.31	5.0	100	0	88.3	75-128	0			
Xylenes, Total	55.42	3.0	60	0	92.4	75-125	0			
Surr: 4-Bromofluorobenzene	*30.57*	1.0	*30*	0	*102*	*75-129*	0			
Surr: Trifluorotoluene	*32.88*	1.0	*30*	0	*110*	*75-130*	0			

LCSD Sample ID: **BLCSDW1-120919-R135276** Units: **µg/L** Analysis Date: **9/19/2012 08:07 PM**
Client ID: Run ID: **BTEX1_120919A** SeqNo: **2948486** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.68	1.0	20	0	108	75-126	19.08	12.7	20	
Toluene	21.23	1.0	20	0	106	75-125	18.81	12.1	20	
Ethylbenzene	20.9	1.0	20	0	105	75-125	18.34	13	20	
Methyl tert-butyl ether	106.9	5.0	100	0	107	75-128	88.31	19.1	20	
Xylenes, Total	63.11	3.0	60	0	105	75-125	55.42	13	20	
Surr: 4-Bromofluorobenzene	*32.35*	1.0	*30*	0	*108*	*75-129*	30.57	*5.66*	*20*	
Surr: Trifluorotoluene	*34.08*	1.0	*30*	0	*114*	*75-130*	32.88	*3.6*	*20*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entech Consulting Corp.
Work Order: 1209475
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R135276** Instrument ID **BTEX1** Method: **SW8021B**

MS Sample ID: **1209471-06AMS** Units: **µg/L** Analysis Date: **9/20/2012 02:03 AM**
Client ID: Run ID: **BTEX1_120919A** SeqNo: **2948502** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	722.8	5.0	100	634.5	88.3	75-126	0			O
Toluene	124.3	5.0	100	0	124	75-125	0			
Ethylbenzene	119.9	5.0	100	0	120	75-125	0			
Methyl tert-butyl ether	607.8	25	500	0	122	75-128	0			
Xylenes, Total	368.7	15	300	3.609	122	75-125	0			
Surr: 4-Bromofluorobenzene	*176.4*	*5.0*	*150*	*0*	*118*	*75-129*	0			
Surr: Trifluorotoluene	*179.4*	5.0	*150*	0	*120*	*75-130*	0			

MSD Sample ID: **1209471-06AMSD** Units: **µg/L** Analysis Date: **9/20/2012 02:20 AM**
Client ID: Run ID: **BTEX1_120919A** SeqNo: **2948503** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	734.5	5.0	100	634.5	99.9	77-126	722.8	1.6	20	O
Toluene	121.8	5.0	100	0	122	75-125	124.3	2	20	
Ethylbenzene	116.5	5.0	100	0	116	76-125	119.9	2.89	20	
Methyl tert-butyl ether	581.6	25	500	0	116	75-128	607.8	4.42	20	
Xylenes, Total	357.2	15	300	3.609	118	75-125	368.7	3.16	20	
Surr: 4-Bromofluorobenzene	*172.8*	*5.0*	*150*	*0*	*115*	*75-129*	176.4	*2.07*	*20*	
Surr: Trifluorotoluene	*181.7*	*5.0*	*150*	*0*	*121*	*75-130*	179.4	*1.28*	*20*	

The following samples were analyzed in this batch: 1209475-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 20-Sep-12

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
WorkOrder: **1209475**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
µg/L	Micrograms per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **ENTECH** Date/Time Received: **14-Sep-12 09:10**

Work Order: **1209475** Received by: **JBA**

Checklist completed by *Johanna B. Allen* 14-Sep-12 Reviewed by: *Sonia West* 14-Sep-12
eSignature Date eSignature Date

Matrices: water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.6 C/uc	004	
Cooler(s)/Kit(s):	2853		
Date/Time sample(s) sent to storage:	09/14/12 15:38		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 64932

1209475

ENTECH: Entech Consulting Corp.

Project: Vac to Jal Mainline #5

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Vac to Jal Mainline #5	A	BTEX (8021)
Work Order		Project Number		B	
Company Name	Entech Consulting Corp.	Bill To Company	Plains All America, LP	C	
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	21 Waterway Avenue Suite 300	Address	c/o ENV. Accounts Payable P.O. Box 4648	E F	
City/State/Zip	The Woodlands, TX 77380	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(318) 282-8343	Phone	(713) 646-4610	H	
Fax	(281) 362-2704	Fax	(713) 646-4189	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW1	9-11	1520	GW	HCl	3	X										
2	MW2		1455														
3	MW3		1445														
4	MW4		1450														
5	MW5		1535														
6	MW6		1515														
7	MW7		1525														
8	RW4		1505														
9	RW5		1500														
10	RW6	9-11	1530	GW	HCl	3	X										

Sampler(s) Please Print & Sign: SHANE DICKEY S.A. Dell

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
S.A. Dell	9-13	1700		5 Day TAT
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

This portion can be removed for Recipient's records.

Date 9-13-12 FedEx Tracking Number 899652673253

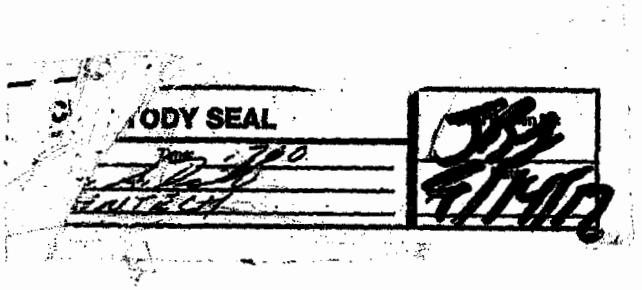
Sender's Name SHANE DILLARD Phone 432 230 3341

Company Enteel

Address 3311 MARK Dept/Room/Suite/Room

City MIDLAND State TX ZIP 79707

Your Internal Billing Reference Vac to Tel. 3 PLAINS



01-Dec-2012

Kathleen Buxton
Entech Consulting Corp.
21 Waterway Avenue
Suite 300
The Woodlands, TX 77380

Tel: (979) 997-2338
Fax: (281) 362-2704

Re: Vac to Jal Mainline #5 Work Order: **1211904**

Dear Kathleen,

ALS Environmental received 11 samples on 28-Nov-2012 09:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 01-Dec-12

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: **1211904**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1211904-01	MW 1	Groundwater		11/26/2012 16:20	11/28/2012 09:20	☐
1211904-02	MW 2	Groundwater		11/26/2012 16:25	11/28/2012 09:20	☐
1211904-03	MW 3	Groundwater		11/26/2012 15:55	11/28/2012 09:20	☐
1211904-04	MW 4	Groundwater		11/26/2012 15:50	11/28/2012 09:20	☐
1211904-05	MW 5	Groundwater		11/26/2012 16:10	11/28/2012 09:20	☐
1211904-06	MW 6	Groundwater		11/26/2012 16:30	11/28/2012 09:20	☐
1211904-07	MW 7	Groundwater		11/26/2012 16:15	11/28/2012 09:20	☐
1211904-08	RW 4	Groundwater		11/26/2012 15:45	11/28/2012 09:20	☐
1211904-09	RW 5	Groundwater		11/26/2012 16:00	11/28/2012 09:20	☐
1211904-10	RW 6	Groundwater		11/26/2012 16:05	11/28/2012 09:20	☐
1211904-11	Trip Blank	Water		11/26/2012	11/28/2012 09:20	☐

Client:	Entech Consulting Corp.
Project:	Vac to Jal Mainline #5
Work Order:	1211904

Case Narrative

Batch R139054, BTEX, Sample 1211911-04: MSD is for an unrelated sample.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 1
Lab ID: 1211904-01
Collection Date: 11/26/2012 04:20 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 02:38 AM
Toluene	U		1.0	µg/L	1		11/30/2012 02:38 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 02:38 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 02:38 AM
Surr: 4-Bromofluorobenzene	*99.4*		*75-129*	*%REC*	1		11/30/2012 02:38 AM
Surr: Trifluorotoluene	*97.8*		*75-130*	*%REC*	1		11/30/2012 02:38 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Sample ID: MW 2
Collection Date: 11/26/2012 04:25 PM

Work Order: 1211904
Lab ID: 1211904-02
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 02:57 AM
Toluene	U		1.0	µg/L	1		11/30/2012 02:57 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 02:57 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 02:57 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1		11/30/2012 02:57 AM
Surr: Trifluorotoluene	*108*		*75-130*	*%REC*	1		11/30/2012 02:57 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 3
Lab ID: 1211904-03
Collection Date: 11/26/2012 03:55 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 03:15 AM
Toluene	U		1.0	µg/L	1		11/30/2012 03:15 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 03:15 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 03:15 AM
Surr: 4-Bromofluorobenzene	*104*		*75-129*	*%REC*	1		11/30/2012 03:15 AM
Surr: Trifluorotoluene	*104*		*75-130*	*%REC*	1		11/30/2012 03:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 4
Lab ID: 1211904-04
Collection Date: 11/26/2012 03:50 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 03:34 AM
Toluene	U		1.0	µg/L	1		11/30/2012 03:34 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 03:34 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 03:34 AM
Surr: 4-Bromofluorobenzene	*104*		*75-129*	*%REC*	1		11/30/2012 03:34 AM
Surr: Trifluorotoluene	*105*		*75-130*	*%REC*	1		11/30/2012 03:34 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 5
Lab ID: 1211904-05
Collection Date: 11/26/2012 04:10 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 03:53 AM
Toluene	U		1.0	µg/L	1		11/30/2012 03:53 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 03:53 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 03:53 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1		11/30/2012 03:53 AM
Surr: Trifluorotoluene	*107*		*75-130*	*%REC*	1		11/30/2012 03:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 6
Lab ID: 1211904-06
Collection Date: 11/26/2012 04:30 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 04:11 AM
Toluene	U		1.0	µg/L	1		11/30/2012 04:11 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 04:11 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 04:11 AM
Surr: 4-Bromofluorobenzene	*104*		*75-129*	*%REC*	1		11/30/2012 04:11 AM
Surr: Trifluorotoluene	*104*		*75-130*	*%REC*	1		11/30/2012 04:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: MW 7
Lab ID: 1211904-07
Collection Date: 11/26/2012 04:15 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 05:07 AM
Toluene	U		1.0	µg/L	1		11/30/2012 05:07 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 05:07 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 05:07 AM
Surr: 4-Bromofluorobenzene	*104*		*75-129*	*%REC*	1		11/30/2012 05:07 AM
Surr: Trifluorotoluene	*103*		*75-130*	*%REC*	1		11/30/2012 05:07 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: RW 4
Lab ID: 1211904-08
Collection Date: 11/26/2012 03:45 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 05:26 AM
Toluene	U		1.0	µg/L	1		11/30/2012 05:26 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 05:26 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 05:26 AM
Surr: 4-Bromofluorobenzene	*103*		*75-129*	*%REC*	1		11/30/2012 05:26 AM
Surr: Trifluorotoluene	*103*		*75-130*	*%REC*	1		11/30/2012 05:26 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: RW 5
Lab ID: 1211904-09
Collection Date: 11/26/2012 04:00 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 05:45 AM
Toluene	U		1.0	µg/L	1		11/30/2012 05:45 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 05:45 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 05:45 AM
Surr: 4-Bromofluorobenzene	*107*		*75-129*	*%REC*	1		11/30/2012 05:45 AM
Surr: Trifluorotoluene	*107*		*75-130*	*%REC*	1		11/30/2012 05:45 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *01-Dec-12*

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
Work Order: 1211904
Sample ID: RW 6
Lab ID: 1211904-10
Collection Date: 11/26/2012 04:05 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Prep	Date Analyzed
BTEX BY SW8021B			**SW8021B**				Analyst: **SMA**
Benzene	U		1.0	µg/L	1		11/30/2012 06:03 AM
Toluene	U		1.0	µg/L	1		11/30/2012 06:03 AM
Ethylbenzene	U		1.0	µg/L	1		11/30/2012 06:03 AM
Xylenes, Total	U		3.0	µg/L	1		11/30/2012 06:03 AM
Surr: 4-Bromofluorobenzene	*103*		*75-129*	*%REC*	1		11/30/2012 06:03 AM
Surr: Trifluorotoluene	*102*		*75-130*	*%REC*	1		11/30/2012 06:03 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 01-Dec-12

Client: Entech Consulting Corp.

Work Order: 1211904

Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R139054** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKW2-121129-R139054** Units: **µg/L** Analysis Date: **11/30/2012 02:01 AM**

Client ID: Run ID: **BTEX3_121129C** SeqNo: **3034518** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Ethylbenzene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	*32.42*	1.0	*30*	0	*108*	*75-129*	0			
Surr: Trifluorotoluene	*32.48*	1.0	*30*	0	*108*	*75-130*	0			

LCS Sample ID: **BLCSW2-121129-R139054** Units: **µg/L** Analysis Date: **11/30/2012 01:23 AM**

Client ID: Run ID: **BTEX3_121129C** SeqNo: **3034516** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.39	1.0	20	0	92	75-126	0			
Toluene	18.5	1.0	20	0	92.5	75-125	0			
Ethylbenzene	18.05	1.0	20	0	90.2	75-125	0			
Xylenes, Total	55.11	3.0	60	0	91.9	75-125	0			
Surr: 4-Bromofluorobenzene	*30.88*	1.0	*30*	0	*103*	*75-129*	0			
Surr: Trifluorotoluene	*30.55*	1.0	*30*	0	*102*	*75-130*	0			

LCSD Sample ID: **BLCSDW2-121129-R139054** Units: **µg/L** Analysis Date: **11/30/2012 01:42 AM**

Client ID: Run ID: **BTEX3_121129C** SeqNo: **3034517** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.27	1.0	20	0	96.4	75-126	18.39	4.69	20	
Toluene	19.45	1.0	20	0	97.2	75-125	18.5	4.97	20	
Ethylbenzene	19.09	1.0	20	0	95.4	75-125	18.05	5.6	20	
Xylenes, Total	57.74	3.0	60	0	96.2	75-125	55.11	4.67	20	
Surr: 4-Bromofluorobenzene	*30.68*	1.0	*30*	0	*102*	*75-129*	30.88	*0.651*	*20*	
Surr: Trifluorotoluene	*30.37*	1.0	*30*	0	*101*	*75-130*	30.55	*0.596*	*20*	

MS Sample ID: **1211911-04AMS** Units: **µg/L** Analysis Date: **11/30/2012 10:08 AM**

Client ID: Run ID: **BTEX3_121129C** SeqNo: **3034543** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.11	1.0	20	0	106	75-126	0			
Toluene	21.01	1.0	20	0	105	75-125	0			
Ethylbenzene	20.27	1.0	20	0	101	75-125	0			
Xylenes, Total	61.79	3.0	60	0	103	75-125	0			
Surr: 4-Bromofluorobenzene	*30.74*	1.0	*30*	0	*102*	*75-129*	0			
Surr: Trifluorotoluene	*30.58*	1.0	*30*	0	*102*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entech Consulting Corp.
Work Order: 1211904
Project: Vac to Jal Mainline #5

QC BATCH REPORT

Batch ID: **R139054** Instrument ID **BTEX3** Method: **SW8021B**

MSD Sample ID: **1211911-04AMSD** Units: **µg/L** Analysis Date: **11/30/2012 10:26 AM**

Client ID: Run ID: **BTEX3_121129C** SeqNo: **3034544** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	15.76	1.0	20	0	78.8	77-126	21.11	29	20	R
Toluene	15.71	1.0	20	0	78.5	75-125	21.01	28.9	20	R
Ethylbenzene	15.02	1.0	20	0	75.1	76-125	20.27	29.7	20	SR
Xylenes, Total	46.06	3.0	60	0	76.8	75-125	61.79	29.2	20	R
Surr: 4-Bromofluorobenzene	*31.57*	1.0	*30*	0	*105*	*75-129*	30.74	*2.66*	*20*	
Surr: Trifluorotoluene	*31.34*	1.0	*30*	0	*104*	*75-130*	30.58	*2.46*	*20*	

The following samples were analyzed in this batch:

1211904-01A	1211904-02A	1211904-03A
1211904-04A	1211904-05A	1211904-06A
1211904-07A	1211904-08A	1211904-09A
1211904-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 01-Dec-12

Client: Entech Consulting Corp.
Project: Vac to Jal Mainline #5
WorkOrder: **1211904**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
µg/L	Micrograms per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **ENTECH** Date/Time Received: **28-Nov-12 09:20**

Work Order: **1211904** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 28-Nov-12 (Date) Reviewed by: Patricia L. Lynch (eSignature) 01-Dec-12 (Date)

Matrices: *groundwater/water*
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.1c c/u	005	
Cooler(s)/Kit(s):	4757		
Date/Time sample(s) sent to storage:	11/28/12 13:50		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: *Trip blank not on COC; logged in without analysis.*

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 71489

1211904

ENTECH: Entech Consulting Corp.

Project: Vac to Jal Mainline #5

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Vac to Jal Mainline #5	A	BTEX (8021)
Work Order		Project Number		B	
Company Name	Entech Consulting Corp.	Bill To Company	Plains All America, LP	C	
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	21 Waterway Avenue Suite 300	Address	c/o ENV. Accounts Payable P.O. Box 4648	E F	
City/State/Zip	The Woodlands, TX 77380	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(318) 282-8343	Phone	(713) 646-4610	H	
Fax	(281) 362-2704	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw1	11-26	1620	Gw	HCl	3	X										
2	mw2		1625														
3	mw3		1555														
4	mw4		1550														
5	mw5		1610														
6	mw6		1630														
7	mw7		1615														
8	Rw4		1545														
9	Rw5		1600														
10	Rw6	11-26-12	1605	Gw	HCl	3	X										

Sampler(s) Please Print & Sign: SHANE A DILLER

Shipment Method: FED EX

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	11-27-12	1730		5 Day TAT
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
4957	

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.