GW-351

Plains
Lea Station Landfarm

Annual Report
2013

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

2013 ANNUAL MONITORING REPORT
& CLOSURE PLAN

LEA STATION LANDFARM
W ½ of the NW ¼ of Section 28, Township 20 South, Range 37 East
Lea County, New Mexico
Plains SRS Number: SRS #2004-00061
Discharge Permit #GW-351

Prepared For:

PLAINS

Plains Marketing, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

March 2014

Ben J. Arguijo
Project Manager

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1.0 INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, LP (Plains), is pleased to submit this *2013 Annual Monitoring Report & Closure Plan* for the Lea Station Landfarm. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of semi-annual soil monitoring events conducted in calendar year 2013.

The Lea Station Landfarm (Landfarm) is operated and maintained in accordance with New Mexico Oil Conservation Division (NMOCD), Natural Resources and Wildlife, Oil and Gas Surface Waste Management Facilities (Title 19, Chapter 15, Part 36). The Landfarm is operated by Plains as a "centralized" facility for Plains use only. A surveyor's plat of the Landfarm is provided as Figure 1.

Basin Environmental submits this closure plan to the NMOCD for approval to close a portion of the above-referenced centralized surface waste management facility (discharge permit #GW-351) and propose procedures for closing the remaining landfarm cells.

2.0 SITE DESCRIPTION & BACKGROUND INFORMATION

The Landfarm is located in the western half of the northwest quarter of Section 28, Township 20 South, Range 37 East, in an area of Lea County, New Mexico, characterized by a stabilized eolian sand dune field. A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicates groundwater in the area should be encountered at approximately forty feet (40') below ground surface (bgs), along with a general southeast groundwater gradient. Gauging data collected from monitor wells at the adjacent Lea Station indicate the depth to groundwater is approximately thirty feet (30') bgs.

According to the *Lea Station Discharge Plan*, dated March 2003, "soil borings advanced at Lea Station identified intermittent occurrences of caliche mixed with fine tan sand from the surface to 25 feet below ground surface ('bgs), but no pure indurated caliche interbed, as is typical of lithologies of the High Plains Province to the north where the Ogallala Formation is capped by an intergrade of caliche and siliceous sandstone of varying thicknesses. The confining Triassic Red-Beds occur approximately 35'bgs and are overlain by Quaternary Alluvium…"

On November 12, 2003, the NMOCD granted Link Energy Limited Partnership (now Plains) approval under NMOCD rule 711 to construct and maintain the Landfarm. The Landfarm was approved for nine (9) cells (Cell A through Cell I); however, only eight (8) cells (Cell A through Cell H) were developed. The landfarm cells range in area from approximately four (4) acres to approximately five (5) acres and are subdivided into four (4) to five (5) grids measuring approximately one (1) acre each.

Receipt of impacted soil commenced in January 2004. Basin Environmental, at the request of Plains, assumed maintenance and reporting responsibilities for the Landfarm in October 2007. As of December 31, 2013, a total of approximately 109,717 cubic yards (yd^3) of hydrocarbon-impacted soil from within the Plains crude oil transportation system had been emplaced in Cell A through Cell H. No impacted soil was transported to the landfarm during the 2013 reporting period.

3.0 MAINTENANCE

Mechanical plowing of the soil contained in the treatment zones of Cell A through Cell H occurred every two weeks. Biweekly landfarm inspections were conducted in the interim.

4.0 LANDFARM MONITORING RESULTS

4.1 Background Samples & Analyses

A single soil sample was collected on January 16, 2004, from the vadose zone in an undisturbed location within the Landfarm area to establish background concentrations of NMOCD constituents of concern, as listed below:

- Total petroleum hydrocarbons (TPH);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX);
- Anions and cations; and
- Resource Conservation and Recovery Act (RCRA) metals, including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver

Laboratory analytical results of the background samples indicated TPH was not detected at or above the laboratory MDL. Anions, cations, and RCRA metal concentrations of background samples were typical of native, undisturbed soil. Please reference Table 2, "Historic Concentrations of Hydrocarbons, Chlorides, Sulfates & Alkalinity in the Vadose Zone", and Table 3, "Historic Concentrations of Metals in the Vadose Zone", for additional information.

On June 13, 2011, ten (10) soil samples were collected from the vadose zone in undisturbed locations outside the perimeter of the Landfarm to establish background concentrations of chloride in the area. The samples were collected at depths of approximately six inches (6") to eighteen inches (18") below ground surface and submitted to Xenco Laboratories for analysis of chloride concentrations using EPA Method 300. Laboratory analytical results of the background soil samples indicated chloride concentrations were typical of native, undisturbed soil. Please reference Table 4, "Background Concentrations of Chloride in the Vadose Zone", for additional information.

4.2 Treatment Zone Data Summary

4.2.1. May 24, 2013, Sampling Event

On May 24, 2013, Basin Environmental collected three (3) to five (5) four-point composite soil samples from the treatment zone of Cells A through H, with the exception of Cell C and Grid 5 of Cell B, whose soil had been removed and transported to a staging area for use as backfill material during the 2009 reporting period. Please refer to *Annual Report (2008) - Disposition of Treated Soils Approval*, dated October 12, 2009, for additional information.

The soil samples were submitted to Xenco Laboratories in Odessa, Texas, and analyzed for concentrations of Total Petroleum Hydrocarbons (TPH) and chloride, using EPA methods SW-846 8015M and 300, respectively. Laboratory analytical results indicated TPH concentrations ranged from 72.9 mg/kg in soil sample TZ Cell E G-4 to 2,230 mg/kg in soil sample TZ Cell G G-3. Chloride concentrations ranged from 4.60 mg/kg in soil sample TZ Cell A G-5 to 61.0 mg/kg in soil sample TZ Cell H G-2. Please reference Table 1, “2013 Concentrations of TPH & Chloride in the Treatment Zone”, for additional information.

4.2.2. November 13, 2013, Sampling Event

On November 13, 2013, Basin Environmental collected four (4) to five (5) four-point composite soil samples from the treatment zones of Cells A through H, with the exception of Cell C. The soil samples were submitted to Xenco Laboratories and analyzed for concentrations of TPH and chloride. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples TZ Cell E G-1 through TZ Cell E G-4 and TZ Cell F G-1 to 2,240 mg/kg in soil sample TZ Cell H G-1. Chloride concentrations ranged from less than the laboratory MDL in soil sample TZ Cell F G-5 to 75.6 mg/kg in soil sample TZ Cell D G-2.

The locations of soil samples collected in treatment Cells A through H during the May and November 2013 sampling events are depicted in Figure 2, "Soil Sample Location Map – May & November 2013".

4.3 Vadose Zone Data Summary

4.3.1. May 24, 2013, Sampling Event

On May 24, 2013, Basin Environmental collected four (4) to five (5) grab soil samples from the vadose zones of Cells A through H at a depth of approximately three feet (3') to four feet (4') bgs to determine the extent of impact (if any) to the underlying soil. The soil samples were submitted to Xenco Laboratories and analyzed for concentrations of BTEX, TPH, and chloride using EPA Methods SW-846 8021b, SW-846 8015M, and 300, respectively. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL in all soil samples submitted. Chloride concentrations ranged from 2.57 mg/kg in soil sample VZ Cell B G-5 to 31.4 mg/kg in soil sample VZ Cell F G-5. Please reference Table 5, "2013 Concentrations of Benzene, BTEX, TPH & Chloride in the Vadose Zone", for additional information.

4.3.2. November 13, 2013, Sampling Event

On November 13, 2013, Basin Environmental collected four (4) to five (5) grab soil samples from the vadose zones of Cells A through H at a depth of approximately three feet (3') to four feet (4') bgs. The soil samples were submitted to Xenco Laboratories and analyzed for concentrations of BTEX, TPH, and chloride. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were below the laboratory MDL in all soil samples submitted. Chloride concentrations ranged from less than the laboratory MDL in soil samples VZ Cell C G-5 and VZ Cell E G-1 to 67.7 mg/kg in soil sample VZ Cell F G-1.

Basin Environmental also submitted four (4) randomly selected grab soil samples from the vadose zones of Cells A through H to be analyzed for concentrations of the metals and major anions/cations listed in Section A of 20.6.2.3103 NMAC, "Human Health Standards", which included arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, selenium, silver, and zinc by EPA Method 6020A, mercury by EPA Method SW-846 7471A, and fluoride, nitrate, and sulfate by EPA Method 300.1. The soil samples were collected at depths of approximately three feet (3') to four feet (4') bgs. Contaminant concentrations were compared to the background concentrations detected in the soil sample collected on January 16, 2004, described in Section 4.1, "Background Samples & Analyses", above. Please reference Table 6, "2013 Concentrations of Metals in the Vadose Zone" for additional information.

Laboratory analytical results indicated arsenic, cadmium, chromium, copper, fluoride, lead, mercury, selenium, and silver were typical of native, undisturbed soil and/or within statistical confidence levels.

Barium concentrations above the established background level were detected in Cells A, B, C, D, E, F and G. Iron concentrations above the established background level were detected in Cells B, C, E, and G. Manganese concentrations above the established background level were detected in Cells B, C, D, E, F, and G. Sulfate concentrations above the established background level were detected in Cells A, B, C, D, E, F, G, and H. Zinc concentrations above the established background level were detected in Cells C, E, and G. Nitrate concentrations above levels typical of native, undisturbed soil were detected in Cells B, E, and G.

The locations of soil samples collected in the vadose zone from treatment cells A through H during the May and November 2013 sampling events are depicted in Figure 2, "Soil Sample Location Map – May & November 2013".

5.0 LANDFARM CLOSURE PLAN

Laboratory analytical results from the November 13, 2013, semi-annual monitoring event indicate that all of the cells are below the remediation standards for BTEX (50 mg/kg), Benzene (10 mg/kg), and chloride (250 mg/kg) in both the treatment and vadose zones. TPH concentrations in the vadose zones of all of the landfarm cells are below the remediation standard of 500 mg/kg. TPH concentrations in the treatment zones of Cells B and E are below the remediation standard of 500 mg/kg. Plains and Basin Environmental believe TPH in the treatment zone of Cell F has been remediated to the extent practicable, as four (4) of the five (5) samples collected from the cell were below the remediation standard of 500 mg/kg. Arsenic, cadmium, chromium, copper, fluoride, lead, mercury, selenium, and silver were typical of native, undisturbed soil and/or within statistical confidence levels in the vadose zones of all landfarm cells.

Plains proposes to subdivide Cells A, B, C, D, F, G, and H into ten (10) sub-cells measuring approximately one-half (1/2) acre in area. Cell E will be divided in eight (8) sub-cells measuring approximately one-half (1/2) acre. A 5-spot composite sample from the treatment zone (tilled) and a vadose zone (2 - 3') sample will be collected near the center of each sub-cell and analyzed for barium, iron, manganese, nitrate, sulfate, and zinc. These samples will also be tested using a Synthetic Precipitation Leaching Procedure (SPLP). The results of this SPLP analysis will be compared to the WQCC Human Health and Domestic Water Quality standards to determine if the soil is protective of fresh water, public health, safety and the environment. Following sample collection, Cells B, E, and F will be closed without further investigation.

5.1 Re-Vegetation Plan

Upon closure of the above referenced landfarm cells, Plains will re-vegetate the cells, along with Cell I, which was never utilized for soil remediation. Re-vegetation will consist of a vegetative cover equal to seventy (70) percent of the native perennial vegetative cover or scientifically documented ecological description consisting of at least three native plant species, including at least one grass. Plains will conduct maintenance of the ground cover for at least two successive growing seasons.

5.2 Post-Closure Monitoring

Plains will continue to disk the remaining landfarm cells on a biweekly basis until soils within the cells are remediated to the standards provided in Subsection F of 19.15.36.15 NMAC, or otherwise approved by the NMOCD. Cells that are remediated to the foregoing standards and left in-situ are to be re-vegetated in accordance with Paragraph (6) of Section A of 19.15.36.15 NMAC. Cells that have not

been remediated to the standards in Section F of 19.15.36.15 NMAC will be re-evaluated on a yearly basis by Plains, and Plains will determine the next year's course of action (i.e., continued tilling, soil removal, etc.).

When all of the cells have been deemed closed by the NMOCD, Plains will conduct additional closure activities. The berms, fences, roads, and equipment remaining in the landfarm will be removed. Annual reports summarizing the vadose zone and treatment zone sampling will be submitted to the NMOCD until the division has approved the surface waste management facility's final closure.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Annual Monitoring Report & Closure Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Plains Marketing, LP.

7.0 DISTRIBUTION

Copy 1: Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
jim.griswold@state.nm.us

Copy 2: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
geoffreyr.leking@state.nm.us

Copy 3: Jeff Dann
Plains Marketing, LP
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 4: Camille Bryant
Plains Marketing, LP
2530 State Highway 214
Denver City, Texas
cjbryant@paalp.com

Copy 5: Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

Figures

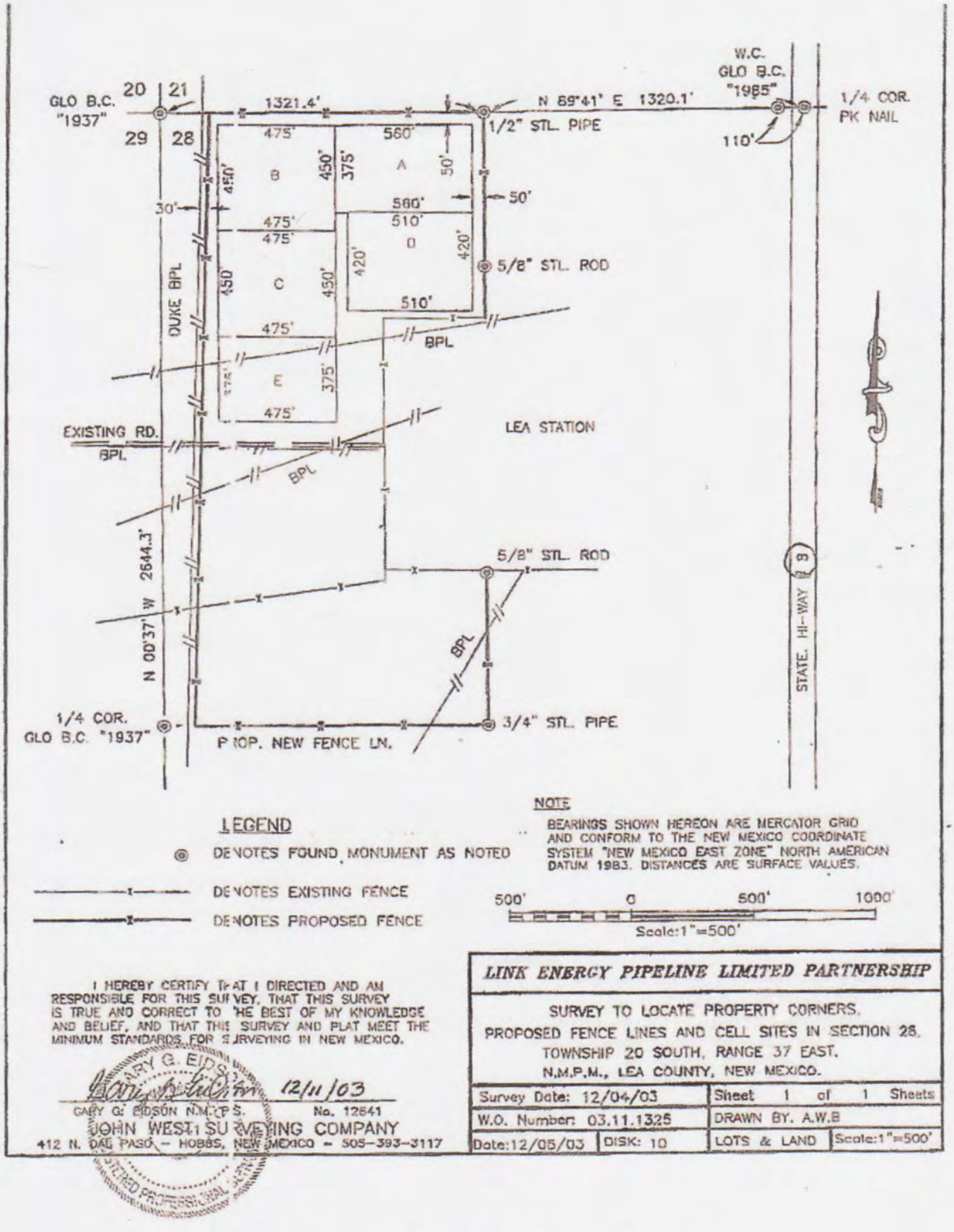
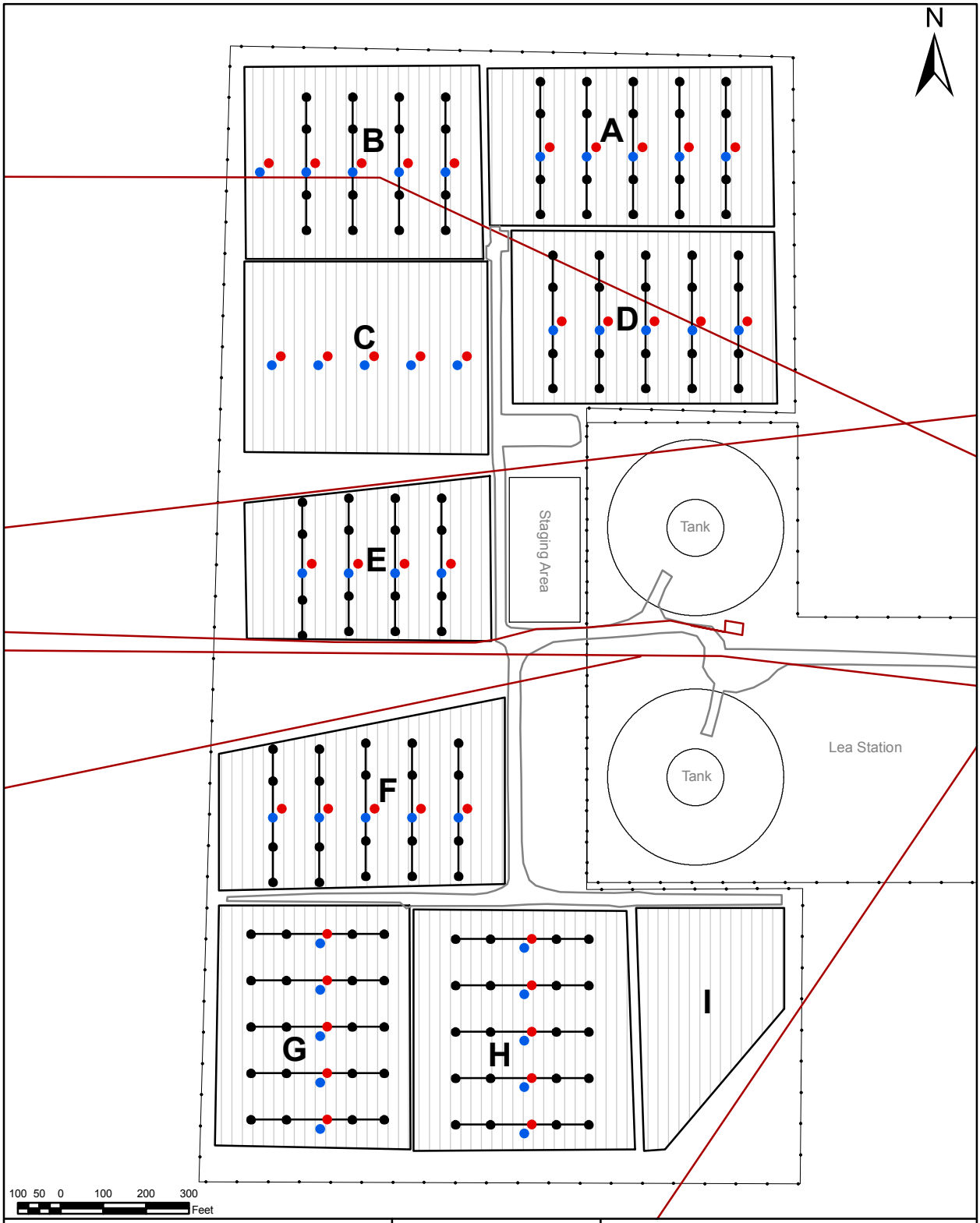


Figure 1: Lea Station Landfarm Survey Map



Legend:

- Road
- Pipeline
- Fence
- Landfarm Cell
- Treatment Zone Composite Sample
- Vadose Zone Sample (May)
- Vadose Zone Sample (November)
- Background Sample

Figure #2
Soil Sample Location Map
May & November 2013
Plains Marketing, LP
Lea Station Landfarm
Lea County, New Mexico
SRS #: 2004-00061
NMOCD #: GW-351

Basin Environmental Service Technologies
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
November 7, 2013	Scale: 1" = 350'

Tables

TABLE 1

2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
				GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell A G-1	0.5'	5/24/2013	In-Situ	<15.2	410	153	563	20.9
TZ Cell A G-2	0.5'	5/24/2013	In-Situ	<15.3	553	189	742	29.1
TZ Cell A G-3	0.5'	5/24/2013	In-Situ	<15.2	389	153	542	22.6
TZ Cell A G-4	0.5'	5/24/2013	In-Situ	<15.2	292	108	400	20.4
TZ Cell A G-5	0.5'	5/24/2013	In-Situ	<16.2	88.3	30.6	119	4.60
TZ Cell B G-1	0.5'	5/24/2013	In-Situ	<15.2	535	160	695	10.6
TZ Cell B G-2	0.5'	5/24/2013	In-Situ	<15.1	264	131	395	11.2
TZ Cell B G-3	0.5'	5/24/2013	In-Situ	<15.2	211	106	317	12.0
TZ Cell B G-4	0.5'	5/24/2013	In-Situ	<15.5	109	58.9	168	9.59
TZ Cell D G-1	0.5'	5/24/2013	In-Situ	<16.3	119	48.3	167	5.99
TZ Cell D G-2	0.5'	5/24/2013	In-Situ	<15.2	389	190	579	28.8
TZ Cell D G-3	0.5'	5/24/2013	In-Situ	<15.1	511	233	744	25.7
TZ Cell D G-4	0.5'	5/24/2013	In-Situ	<15.0	528	213	741	17.2
TZ Cell D G-5	0.5'	5/24/2013	In-Situ	<15.0	481	216	697	10.8
TZ Cell E G-1	0.5'	5/24/2013	In-Situ	<15.2	119	61.9	181	7.03
TZ Cell E G-2	0.5'	5/24/2013	In-Situ	<15.0	120	56.7	177	6.65
TZ Cell E G-3	0.5'	5/24/2013	In-Situ	<15.1	74.7	38.9	114	6.30
TZ Cell E G-4	0.5'	5/24/2013	In-Situ	<15.1	45.6	27.3	72.9	5.90
TZ Cell F G-1	0.5'	5/24/2013	In-Situ	<15.1	260	140	400	28.2
TZ Cell F G-2	0.5'	5/24/2013	In-Situ	<15.2	304	165	469	26.6
TZ Cell F G-3	0.5'	5/24/2013	In-Situ	<15.2	391	194	585	34.9
TZ Cell F G-4	0.5'	5/24/2013	In-Situ	<15.2	370	140	510	19.5
TZ Cell F G-5	0.5'	5/24/2013	In-Situ	<15.1	232	122	354	13.3
TZ Cell G G-1	0.5'	5/24/2013	In-Situ	<15.1	907	304	1,210	15.7
TZ Cell G G-2	0.5'	5/24/2013	In-Situ	<15.2	1,470	328	1,800	14.9
TZ Cell G G-3	0.5'	5/24/2013	In-Situ	<15.1	1,780	452	2,230	15.2
TZ Cell G G-4	0.5'	5/24/2013	In-Situ	<15.1	1,600	389	1,990	14.6
TZ Cell G G-5	0.5'	5/24/2013	In-Situ	<15.1	820	243	1,060	12.1
TZ Cell H G-1	0.5'	5/24/2013	In-Situ	<15.2	1,670	524	2,190	34.2
TZ Cell H G-2	0.5'	5/24/2013	In-Situ	<15.2	1,760	457	2,220	61.0
TZ Cell H G-3	0.5'	5/24/2013	In-Situ	<15.1	775	208	983	19.7
TZ Cell H G-4	0.5'	5/24/2013	In-Situ	<15.1	558	177	735	16.2
TZ Cell H G-5	0.5'	5/24/2013	In-Situ	<15.1	221	78	299	12.7

TABLE 1

2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
				GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell A G-1	0.5'	11/13/2013	In-Situ	<15.7	435	116	551	7.08
TZ Cell A G-2	0.5'	11/13/2013	In-Situ	<15.5	474	140	614	21.4
TZ Cell A G-3	0.5'	11/13/2013	In-Situ	<15.7	330	107	437	33.2
TZ Cell A G-4	0.5'	11/13/2013	In-Situ	<15.4	184	72.1	256	11.0
TZ Cell A G-5	0.5'	11/13/2013	In-Situ	<15.4	242	76.4	318	18.7
TZ Cell B G-1	0.5'	11/13/2013	In-Situ	<15.9	457	110	567	4.46
TZ Cell B G-2	0.5'	11/13/2013	In-Situ	<15.7	240	82.3	322	14.7
TZ Cell B G-3	0.5'	11/13/2013	In-Situ	<15.5	239	87.2	326	18.8
TZ Cell B G-4	0.5'	11/13/2013	In-Situ	<15.5	110	41.3	151	19.9
TZ Cell D G-1	0.5'	11/13/2013	In-Situ	<15.4	549	155	704	37.5
TZ Cell D G-2	0.5'	11/13/2013	In-Situ	<15.6	526	168	694	75.6
TZ Cell D G-3	0.5'	11/13/2013	In-Situ	<15.3	593	187	780	37.8
TZ Cell D G-4	0.5'	11/13/2013	In-Situ	<15.6	636	148	784	17.1
TZ Cell D G-5	0.5'	11/13/2013	In-Situ	<15.6	714	155	869	12.7
TZ Cell E G-1	0.5'	11/13/2013	In-Situ	<15.5	<15.5	<15.5	<15.5	6.71
TZ Cell E G-2	0.5'	11/13/2013	In-Situ	<15.4	<15.4	<15.4	<15.4	6.83
TZ Cell E G-3	0.5'	11/13/2013	In-Situ	<15.5	<15.5	<15.5	<15.5	6.47
TZ Cell E G-4	0.5'	11/13/2013	In-Situ	<15.2	<15.2	<15.2	<15.2	3.32
TZ Cell F G-1	0.5'	11/13/2013	In-Situ	<15.8	<15.8	<15.8	<15.8	22.5
TZ Cell F G-2	0.5'	11/13/2013	In-Situ	<15.5	452	25.4	477	38.2
TZ Cell F G-3	0.5'	11/13/2013	In-Situ	<15.5	703	19.1	722	35.7
TZ Cell F G-4	0.5'	11/13/2013	In-Situ	<15.4	438	21.2	459	21.9
TZ Cell F G-5	0.5'	11/13/2013	In-Situ	20.4	366	18.8	405	<4.18
TZ Cell G G-1	0.5'	11/13/2013	In-Situ	<15.2	220	<15.2	220	4.38
TZ Cell G G-2	0.5'	11/13/2013	In-Situ	<15.6	728	25.7	754	9.98
TZ Cell G G-3	0.5'	11/13/2013	In-Situ	<15.5	1,780	36.8	1,820	30.1
TZ Cell G G-4	0.5'	11/13/2013	In-Situ	<15.3	1,190	32.5	1,220	10.8
TZ Cell G G-5	0.5'	11/13/2013	In-Situ	<15.4	1,160	42.6	1,200	12.3
TZ Cell H G-1	0.5'	11/13/2013	In-Situ	<15.7	2,160	75.0	2,240	56.5
TZ Cell H G-2	0.5'	11/13/2013	In-Situ	25.4	1,160	79.4	1,260	62.3
TZ Cell H G-3	0.5'	11/13/2013	In-Situ	<15.7	431	57.5	489	30.2
TZ Cell H G-4	0.5'	11/13/2013	In-Situ	23.9	588	76.7	689	45.8
TZ Cell H G-5	0.5'	11/13/2013	In-Situ	<15.4	401	45.9	447	17.3

TABLE 2

HISTORIC CONCENTRATIONS OF HYDROCARBONS, CHLORIDES, SULFATES & ALKALINITY IN THE VADOSE ZONE
PLAINS MARKETING, L.P.
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #2004-00061
NMOCD #GW-351

Sample ID	Landfarm Cell	Sample Date	PID analyses (ppm)	Sample Depth (feet-bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Eythlbenzene (mg/Kg)	m,p-xylene (mg/Kg)	o-xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)	Carbonate Alkalinity (mg/Kg)	Bicarbonate Alkalinity (mg/Kg)	Hydroxide Alkalinity (mg/Kg)	Total Alkalinity (mg/Kg)
CESLELSLF11604BGS	Background	16-Jan-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	10.60	<5	<50	<50	--	<50
SPLSLF83104CC-4'	C	31-Aug-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	--	--	--	--	--	--
SPLSLF83104CE-4'	E	31-Aug-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	--	--	--	--	--	--
Cell B Treatment Zone	B	28-Oct-05	0.80	3.5-4.0	<0.025	0.0159 A	0.0273	0.0896	0.0190 A	0.30	<10.0	<10.0	<10.0	9.37	24.4	nr	nr	--	433
Cell C Treatment Zone	C	28-Oct-05	1.20	3.5-4.0	<0.025	<0.025	<0.025	0.0235 A	<0.025	<0.025	<10.0	<10.0	<10.0	7.74	23.1	nr	nr	--	433
Cell E Treatment Zone	E	28-Oct-05	0.30	3.5-4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	20.9	35.2	nr	nr	--	1,580
Cell A Treatment Zone- 3' to 4'	A	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	1.17 A	8.35	<0.500	240	<0.500	240
Cell B Treatment Zone- 3' to 4'	B	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	4.76 A	9.51	40.0	180	<0.500	220
Cell C Treatment Zone- 3' to 4'	C	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	1.45 A	45.8	<0.500	220	<0.500	220
Cell E Treatment Zone- 3' to 4'	E	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	2.95 A	44.7	<0.500	225	<0.500	225
Cell A Treatment Zone- 3' to 4'	A	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell B Treatment Zone- 3' to 4'	B	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell C Treatment Zone- 3' to 4'	C	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell E Treatment Zone- 3' to 4'	E	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
BG South of Cell "G"	G	23-Dec-09	--	--	--	--	--	--	--	--	--	--	--	100.00	--	--	--	--	--
BG West of Cell "G"	G	23-Dec-09	--	--	--	--	--	--	--	--	--	--	--	100.00	--	--	--	--	--

A = Estimated value, analyte detected less than reported limit
-- = Not analyzed

TABLE 3

HISTORIC CONCENTRATIONS OF METALS IN THE VADOSE ZONE
PLAINS MARKETING, L.P.
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS 2004-00061
NMOCD #GW-351

Sample ID	Landfarm Cell	Sample Date	Sample Depth (feet-bgs)	SW-846 6010 & 200.7		258.1 & 7670	SW-6010 & 200.7								
				Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)	Mercury (mg/Kg)	Chromium (mg/Kg)	Arsenic (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Cadmium (mg/Kg)	Barium (mg/Kg)	Lead (mg/Kg)
CESLELSLF11604BGS	Background	16-Jan-04	3.5-4.0	664	1,540	744	30.1	<0.04	4.42	<1	<5.0	<2.5	<2	15.2	<1
SPLSLF83104CC-4'	C	31-Aug-04	3.5-4.0	--	--	--	--	--	--	--	--	--	–	--	--
SPLSLF83104CE-4'	E	31-Aug-04	3.5-4.0	--	--	--	--	--	--	--	--	--	–	--	--
Cell B Treatment Zone	B	28-Oct-05	3.5-4.0	30,400	1,350	235	1,420	0.01230 A	1.43	<0.400	<0.200	<0.250	0.423	35.8	2.30
Cell C Treatment Zone	C	28-Oct-05	3.5-4.0	20,800	902	238	1,700	0.02204 A	3.81	<0.400	<0.200	<0.250	0.973	47.4	<0.550
Cell E Treatment Zone	E	28-Oct-05	3.5-4.0	89,900	3,680	506	2,670	0.01847 A	3.52	1.36	<0.200	<0.250	1.13	111	2.80
Cell A Treatment Zone- 3' to 4'	A	26-Jul-06	3.0 -4.0	47.8	5.82	4.48	2.26	0.009424 A	<2.44	1.65 A	<7.51	1.01	<1.73	17.3	<0.740
Cell B Treatment Zone- 3' to 4'	B	26-Jul-06	3.0 -4.0	27.9	8.16	9.17	3.78	0.03174	<2.44	3.33 A	1.71 A	<1.01	<1.73	147	<0.740
Cell C Treatment Zone- 3' to 4'	C	26-Jul-06	3.0 -4.0	51.5	6.06	3.07	12.1	0.009956 A	<2.44	0.953 A	<7.51	<1.01	<1.73	40.0	<0.740
Cell E Treatment Zone- 3' to 4'	E	26-Jul-06	3.0 -4.0	57.5	10.3	16.0	9.17	0.01564	1.47 A	1.29 A	2.47 A	<1.01	<1.73	50.4	<0.740

A = Estimated value, analyte detected less than reported limit
-- = Not analyzed

TABLE 4

BACKGROUND CONCENTRATIONS OF CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	EPA 300.1
			Chloride (mg/kg)
North Background @ 6"	0.5'	11/10/2011	<5.10
North Background @ 18"	1.5'	11/10/2011	<5.14
Northeast Background @ 6"	0.5'	11/10/2011	<5.09
Northeast Background @ 18"	1.5'	11/10/2011	<5.18
Northwest Background @ 6"	0.5'	11/10/2011	<5.10
Northwest Background @ 18"	1.5'	11/10/2011	<5.11
South Background @ 6"	0.5'	11/10/2011	5.76
South Background @ 18"	1.5'	11/10/2011	6.09
Southwest Background @ 6"	0.5'	11/10/2011	7.38
Southwest Background @ 18"	1.5'	11/10/2011	5.17

TABLE 5

2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M			TOTAL TPH	E 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
VZ Cell A G-1	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<0.0024	<17.9	<17.9	<17.9	<17.9	4.44
VZ Cell A G-2	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.8	<16.8	<16.8	<16.8	3.90
VZ Cell A G-3	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.5	<17.5	<17.5	<17.5	14.9
VZ Cell A G-4	3' - 4'	5/24/2013	In-Situ	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	<0.0026	<0.0026	<19.5	<19.5	<19.5	<19.5	7.77
VZ Cell A G-5	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<15.9	<15.9	<15.9	<15.9	3.03
VZ Cell B G-1	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<16.1	<16.1	<16.1	<16.1	7.28
VZ Cell B G-2	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<15.7	<15.7	<15.7	<15.7	3.48
VZ Cell B G-3	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.7	<16.7	<16.7	<16.7	3.25
VZ Cell B G-4	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.8	<15.8	<15.8	<15.8	2.94
VZ Cell B G-5	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	2.57
VZ Cell C G-1	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.5	<17.5	<17.5	<17.5	3.96
VZ Cell C G-2	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.6	<15.6	<15.6	<15.6	2.96
VZ Cell C G-3	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.6	<17.6	<17.6	<17.6	3.16
VZ Cell C G-4	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.5	<17.5	<17.5	<17.5	5.19
VZ Cell C G-5	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.1	<16.1	<16.1	<16.1	4.48
VZ Cell D G-1	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.4	<16.4	<16.4	<16.4	21.9
VZ Cell D G-2	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.6	<17.6	<17.6	<17.6	27.3
VZ Cell D G-3	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<15.6	<15.6	<15.6	<15.6	7.16
VZ Cell D G-4	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<15.8	<15.8	<15.8	<15.8	2.66
VZ Cell D G-5	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.7	<16.7	<16.7	<16.7	3.03
VZ Cell E G-1	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.5	<16.5	<16.5	<16.5	2.93
VZ Cell E G-2	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.6	<15.6	<15.6	<15.6	2.85
VZ Cell E G-3	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.8	<16.8	<16.8	<16.8	3.40
VZ Cell E G-4	3' - 4'	5/24/2013	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.4	<17.4	<17.4	<17.4	6.15
VZ Cell F G-1	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.8	<15.8	<15.8	<15.8	17.7
VZ Cell F G-2	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.4	<15.4	<15.4	<15.4	3.33
VZ Cell F G-3	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.2	<16.2	<16.2	<16.2	26.4
VZ Cell F G-4	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<0.0023	<16.9	<16.9	<16.9	<16.9	29.5
VZ Cell F G-5	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.4	<15.4	<15.4	<15.4	31.4
VZ Cell G G-1	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	2.79
VZ Cell G G-2	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	3.72
VZ Cell G G-3	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.5	<15.5	<15.5	<15.5	7.83
VZ Cell G G-4	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	16.4
VZ Cell G G-5	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	3.49
VZ Cell H G-1	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.5	<15.5	<15.5	<15.5	3.18
VZ Cell H G-2	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	3.50
VZ Cell H G-3	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.7	<15.7	<15.7	<15.7	20.2
VZ Cell H G-4	3' - 4'	5/24/2013	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<0.0021	<15.8	<15.8	<15.8	<15.8	2.77
VZ Cell H G-5	3' - 4'	5/24/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	2.62

TABLE 5

2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M			TOTAL TPH	E 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
VZ Cell A G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.64
VZ Cell A G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.78
VZ Cell A G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.70
VZ Cell A G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.98
VZ Cell A G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	8.57
VZ Cell B G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	18.3
VZ Cell B G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.26
VZ Cell B G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.84
VZ Cell B G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	11.3
VZ Cell B G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	4.53
VZ Cell C G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.58
VZ Cell C G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	6.72
VZ Cell C G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	7.21
VZ Cell C G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	3.52
VZ Cell C G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<16.3	<16.3	<16.3	<16.3	<2.17
VZ Cell D G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<16.3	<16.3	<16.3	<16.3	30.7
VZ Cell D G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.6	<15.6	<15.6	<15.6	10.3
VZ Cell D G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.8	<15.8	<15.8	<15.8	7.21
VZ Cell D G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<16.4	<16.4	<16.4	<16.4	3.29
VZ Cell D G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.1	<17.1	<17.1	<17.1	3.45
VZ Cell E G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.0	<17.0	<17.0	<17.0	<2.26
VZ Cell E G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.5	<15.5	<15.5	<15.5	3.01
VZ Cell E G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.5	<17.5	<17.5	<17.5	3.58
VZ Cell E G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<18.7	<18.7	<18.7	<18.7	3.73
VZ Cell F G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<18.7	<18.7	<18.7	<18.7	67.7
VZ Cell F G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	2.99
VZ Cell F G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.3	<17.3	<17.3	<17.3	17.4
VZ Cell F G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<16.0	<16.0	<16.0	<16.0	15.3
VZ Cell F G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.5	<15.5	<15.5	<15.5	6.99
VZ Cell G G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	6.59
VZ Cell G G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	2.98
VZ Cell G G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	4.80
VZ Cell G G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.4	<15.4	<15.4	<15.4	6.03
VZ Cell G G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.2	<17.2	<17.2	<17.2	3.24
VZ Cell H G-1	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.6	<15.6	<15.6	<15.6	13.0
VZ Cell H G-2	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.5	<15.5	<15.5	<15.5	15.9
VZ Cell H G-3	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.5	<15.5	<15.5	<15.5	4.89
VZ Cell H G-4	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	2.81
VZ Cell H G-5	3' - 4'	11/13/2013	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<15.3	<15.3	<15.3	<15.3	3.07

TABLE 6

2013 CONCENTRATIONS OF METALS & ANIONS IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 6020A												EPA Method 300/300.1			
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Mercury (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)
VZ Cell A G-1	3' - 4'	11/13/2013	In-Situ	<2.00	17.6	<1.00	1.59	<2.00	1,070	<2.00	13.7	<3.00	<2.00	3.50	<0.0089	3.64	5.40	2.77	8.76
VZ Cell A G-2	3' - 4'	11/13/2013	In-Situ	<1.89	21.9	<0.94	2.00	<1.89	1,520	<1.89	25.5	<2.83	<1.89	4.05	<0.0083	3.78	3.87	2.71	15.8
VZ Cell A G-3	3' - 4'	11/13/2013	In-Situ	<1.89	15.4	<0.94	1.35	<1.89	860	<1.89	6.95	<2.83	<1.89	<2.83	<0.0091	3.70	2.75	3.22	4.99
VZ Cell A G-4	3' - 4'	11/13/2013	In-Situ	<2.00	18.1	<1.00	1.20	<2.00	731	<2.00	7.53	<3.00	<2.00	<3.00	<0.0100	3.98	3.85	1.34	4.99
VZ Cell B G-1	3' - 4'	11/13/2013	In-Situ	<2.00	34.1	<1.00	1.77	<2.00	1,290	<2.00	17.7	<3.00	<2.00	3.31	<0.0089	18.3	1.22	11.2	10.5
VZ Cell B G-3	3' - 4'	11/13/2013	In-Situ	<1.96	13.8	<0.98	<0.98	<1.96	582	<1.96	8.22	<2.94	<1.96	<2.94	<0.0094	3.84	2.49	1.75	5.20
VZ Cell B G-4	3' - 4'	11/13/2013	In-Situ	<2.00	74.1	<1.00	3.20	<2.00	2,460	<2.00	39.9	<3.00	<2.00	7.05	<0.0091	11.3	3.56	15.9	51.9
VZ Cell B G-5	3' - 4'	11/13/2013	In-Situ	8.00	76.7	<1.00	3.66	2.91	2,800	<2.00	50.2	<3.00	<2.00	7.57	<0.0100	4.53	4.87	0.928	48.4
VZ Cell C G-1	3' - 4'	11/13/2013	In-Situ	3.14	82.2	<0.93	4.11	3.29	3,180	<1.85	47.0	<2.78	<1.85	8.93	<0.0100	3.58	2.97	3.36	82.1
VZ Cell C G-2	3' - 4'	11/13/2013	In-Situ	<2.00	98.9	<1.00	5.87	3.01	4,710	2.56	53.0	<3.00	<2.00	13.9	<0.0100	6.72	2.12	<1.60	113
VZ Cell C G-3	3' - 4'	11/13/2013	In-Situ	5.94	141	<0.89	3.55	2.59	2,680	<1.79	55.7	<2.68	<1.79	8.74	<0.0100	7.21	3.62	1.96	100
VZ Cell C G-5	3' - 4'	11/13/2013	In-Situ	<2.00	67.2	<1.00	2.16	<2.00	1,600	<2.00	24.6	<3.00	<2.00	4.69	<0.0085	<2.17	3.87	3.77	37.9
VZ Cell D G-1	3' - 4'	11/13/2013	In-Situ	<1.96	47.4	<0.98	2.36	<1.96	1,550	<1.96	20.6	<2.94	<1.96	4.34	<0.0098	30.7	3.52	3.27	18.9
VZ Cell D G-2	3' - 4'	11/13/2013	In-Situ	<1.82	27.5	<0.91	2.68	<1.82	2,110	<1.82	31.4	<2.73	<1.82	6.43	<0.0093	10.3	1.54	5.00	4.63
VZ Cell D G-4	3' - 4'	11/13/2013	In-Situ	<1.89	39.3	<0.94	2.17	<1.89	1,510	<1.89	18.4	<2.83	<1.89	3.78	<0.0098	3.29	1.51	<0.80	8.72
VZ Cell D G-5	3' - 4'	11/13/2013	In-Situ	3.88	86.7	<0.98	3.46	<1.96	2,300	<1.96	34.3	<2.94	<1.96	6.58	<0.0098	3.45	4.31	1.98	17.9
VZ Cell E G-1	3' - 4'	11/13/2013	In-Situ	<1.96	46.5	<0.98	3.33	<1.96	2,500	<1.96	58.7	<2.94	<1.96	6.37	<0.0089	<2.26	3.15	<0.80	8.87
VZ Cell E G-2	3' - 4'	11/13/2013	In-Situ	<1.85	18.1	<0.93	1.49	<1.85	998	<1.85	17.0	<2.78	<1.85	2.93	<0.0091	3.01	2.06	4.44	28.8
VZ Cell E G-3	3' - 4'	11/13/2013	In-Situ	3.95	98.0	<0.96	2.91	1.96	2,050	<1.92	46.9	<2.88	1.93	7.09	<0.0094	3.58	3.29	12.1	52.3
VZ Cell E G-4	3' - 4'	11/13/2013	In-Situ	4.19	110	<0.96	4.65	<1.92	3,240	2.39	55.0	<2.88	<1.92	10.2	<0.0094	3.73	4.35	10.2	18.8
VZ Cell F G-2	3' - 4'	11/13/2013	In-Situ	<1.89	14.8	<0.94	0.998	<1.89	664	<1.89	10.0	<2.83	<1.89	<2.83	<0.0083	2.99	0.97	<0.08	<4.00
VZ Cell F G-3	3' - 4'	11/13/2013	In-Situ	3.23	85.0	<0.91	2.81	<1.82	1,940	<1.82	45.7	<2.73	<1.82	6.71	<0.0096	17.4	3.54	2.08	54.9
VZ Cell F G-4	3' - 4'	11/13/2013	In-Situ	<1.96	43.5	<0.98	2.12	<1.96	1,470	<1.96	26.3	<2.94	<1.96	3.95	<0.0098	15.3	1.49	2.90	9.10
VZ Cell F G-5	3' - 4'	11/13/2013	In-Situ	<1.82	8.41	<0.91	2.45	<1.82	2,150	<1.82	15.5	<2.73	<1.82	5.55	<0.0089	6.99	<0.80	<0.80	6.50
VZ Cell G G-1	3' - 4'	11/13/2013	In-Situ	<1.96	5.10	<0.98	1.70	<1.96	1,370	<1.96	19.5	<2.94	<1.96	<2.94	<0.0094	6.59	<0.80	1.85	6.35
VZ Cell G G-2	3' - 4'	11/13/2013	In-Situ	<1.96	6.29	<0.98	1.70	<1.96	1,260	<1.96	18.1	<2.94	<1.96	<2.94	<0.0098	2.98	<0.80	1.73	<4.00
VZ Cell G G-4	3' - 4'	11/13/2013	In-Situ	<1.89	6.62	<0.94	1.87	<1.89	1,410	<1.89	13.7	<2.83	<1.89	<2.83	<0.0086	6.03	<0.80	9.01	8.26
VZ Cell G G-5	3' - 4'	11/13/2013	In-Situ	<2.00	22.9	<1.00	8.77	<2.00	8,640	3.80	39.9	<3.00	<2.00	19.0	<0.0094	3.24	1.46	2.97	10.7
VZ Cell H G-2	3' - 4'	11/13/2013	In-Situ	<2.00	9.65	<1.00	2.06	<2.00	1,680	<2.00	23.9	<3.00	<2.00	4.04	<0.0100	15.9	<0.80	2.5	16.5
VZ Cell H G-3	3' - 4'	11/13/2013	In-Situ	<2.00	10.1	<1.00	2.11	<2.00	1,740	<2.00	22.2	<3.00	<2.00	4.49	<0.0100	4.89	<0.80	<0.80	<4.00
VZ Cell H G-4	3' - 4'	11/13/2013	In-Situ	<1.75	11.2	<0.88	2.45	<1.75	2,150	<1.75	22.9	<2.63	<1.75	5.13	0.0240	2.81	0.988	<0.80	<4.00
VZ Cell H G-5	3' - 4'	11/13/2013	In-Situ	<1.85	9.12	<0.93	2.11	<1.85	1,800	<1.85	21.5	<2.78	<1.85	4.19	<0.0091	3.07	0.998	1.83	5.79

TABLE 7

2008 - 2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell A TZ G 1	8"	6/16/2009	<15.0	794	184	978	38.5
Cell A TZ G 2	8"	6/16/2009	<15.1	1070	206	1,276	35.7
Cell A TZ G 3	8"	6/16/2009	<15.1	889	182	1,071	30.1
Cell A TZ G 4	8"	6/16/2009	<15.1	571	140	711	30.5
Cell A TZ G 5	8"	6/16/2009	<15.0	176	71.2	247.2	17.5
Cell A TZ G 1	8"	10/27/2009	<15.5	891	54.5	945.5	51.2
Cell A TZ G 2	8"	10/27/2009	<16.2	518	28	546	29.7
Cell A TZ G 3	8"	10/27/2009	<15.2	1420	70.1	1,490.1	35.9
Cell A TZ G 4	8"	10/27/2009	<15.8	434	30.9	464.9	22.1
Cell A TZ G 5	8"	10/27/2009	<15.4	240	24.2	264.2	16.2
Cell A TZ G 1	8"	6/7/2010	<15.4	786	146	932	32.3
Cell A TZ G-2	8"	6/7/2010	<15.6	1200	174	1,374	47.1
Cell A TZ G-3	8"	6/7/2010	<15.4	901	147	1,048	36.5
Cell A TZ G-4	8"	6/7/2010	<15.4	124	35.5	160	11.4
Cell A TZ G-5	8"	6/7/2010	<15.5	428	92.7	521	21.4
TZ Cell A G-1	8"	11/1/2010	<15.4	615	87.3	702	27.4
TZ Cell A G-2	8"	11/1/2010	<15.5	701	98.6	800	16.6
TZ Cell A G-3	8"	11/1/2010	<15.6	452	70.2	522	14.4
TZ Cell A G-4	8"	11/1/2010	<15.3	124	27.4	151	9.06
TZ Cell A G-5	8"	11/1/2010	<15.3	189	36.6	226	<4.28
TZ Cell A G-1	8"	6/13/2011	<15.2	906	19.6	926	7.53
TZ Cell A G-2	8"	6/13/2011	<15.2	796	18.8	815	11.3
TZ Cell A G-3	8"	6/13/2011	<15.2	832	29.7	862	9.78
TZ Cell A G-4	8"	6/13/2011	<15.1	587	26.8	614	13.5
TZ Cell A G-5	8"	6/13/2011	<15.1	188	28.7	217	6.15
TZ Cell A G-1	8"	11/10/2011	<15.7	272	132	404	6.27
TZ Cell A G-2	8"	11/10/2011	<15.7	411	166	577	6.73
TZ Cell A G-3	8"	11/10/2011	<15.6	219	98.8	318	3.39
TZ Cell A G-4	8"	11/10/2011	<15.8	213	99.4	312	3.12
TZ Cell A G-5	8"	11/10/2011	<15.5	108	67.3	175	2.38
TZ Cell A G-1	0.5'	6/12/2012	<51.2	469	179	648	9.72
TZ Cell A G-2	0.5'	6/12/2012	<52.3	400	153	553	24.7
TZ Cell A G-3	0.5'	6/12/2012	<52.5	269	128	397	27.5
TZ Cell A G-4	0.5'	6/12/2012	<51.7	203	92.2	295	10.1
TZ Cell A G-5	0.5'	6/12/2012	<50.9	181	104	285	7.56
TZ Cell A G-1	0.5'	10/29/2012	<15.6	245	55.1	300	12.7
TZ Cell A G-2	0.5'	10/29/2012	<15.6	323	58.1	381	15.2
TZ Cell A G-3	0.5'	10/29/2012	<15.6	327	44.4	371	7.45
TZ Cell A G-4	0.5'	10/29/2012	<15.7	169	25.6	195	13.1
TZ Cell A G-5	0.5'	10/29/2012	<15.6	86.3	<15.6	86.3	1.32
TZ Cell A G-1	0.5'	5/24/2013	<15.2	410	153	563	20.9
TZ Cell A G-2	0.5'	5/24/2013	<15.3	553	189	742	29.1
TZ Cell A G-3	0.5'	5/24/2013	<15.2	389	153	542	22.6
TZ Cell A G-4	0.5'	5/24/2013	<15.2	292	108	400	20.4
TZ Cell A G-5	0.5'	5/24/2013	<16.2	88.3	30.6	119	4.60

TABLE 7

2008 - 2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell A G-1	0.5'	11/13/2013	<15.7	435	116	551	7.08
TZ Cell A G-2	0.5'	11/13/2013	<15.5	474	140	614	21.4
TZ Cell A G-3	0.5'	11/13/2013	<15.7	330	107	437	33.2
TZ Cell A G-4	0.5'	11/13/2013	<15.4	184	72.1	256	11.0
TZ Cell A G-5	0.5'	11/13/2013	<15.4	242	76.4	318	18.7
Cell B TZ G 1	8"	6/16/2009	<15.1	1400	238	1,638	20
Cell B TZ G 2	8"	6/16/2009	<15.1	954	206	1,160	14.7
Cell B TZ G 3	8"	6/16/2009	<15.0	356	121	477	32
Cell B TZ G 4	8"	6/16/2009	<15.1	210	76	286	21.5
Cell B TZ G 5	8"	6/16/2009	<15.0	48.3	30.8	79.1	5.28
Cell B TZ G 1	8"	10/27/2009	<15.7	832	45.8	877.8	11.7
Cell B TZ G 2	8"	10/27/2009	<15.5	700	40.6	740.6	22
Cell B TZ G 3	8"	10/27/2009	<15.4	363	28.9	391.9	27.6
Cell B TZ G 4	8"	10/27/2009	<15.4	358	30.7	388.7	22.2
Cell B TZ G 5	8"	10/27/2009	-	-	-	-	-
Cell B TZ G-1	8"	6/7/2010	<15.4	1430	199	1,629	8.95
Cell B TZ G-2	8"	6/7/2010	<15.6	837	123	960	12.1
Cell B TZ G-3	8"	6/7/2010	<16.0	230	41.7	272	15.5
Cell B TZ G-4	8"	6/7/2010	<15.3	202	47.8	250	17.3
TZ Cell B G-1	8"	11/1/2010	<15.8	550	104	654	<4.41
TZ Cell B G-2	8"	11/1/2010	<15.7	485	81.6	567	<4.38
TZ Cell B G-3	8"	11/1/2010	<15.6	146	25.4	171	5.27
TZ Cell B G-4	8"	11/1/2010	<16.1	150	35.5	186	<4.52
TZ Cell B G-1	8"	6/13/2011	<15.2	1,260	15.2	1,280	<4.25
TZ Cell B G-2	8"	6/13/2011	<15.1	682	20.7	703	<4.24
TZ Cell B G-3	8"	6/13/2011	<15.1	293	31.3	324	6.23
TZ Cell B G-4	8"	6/13/2011	<15.1	258	23.7	282	<4.22
TZ Cell B G-1	8"	11/10/2011	<15.3	575	202	777	2.21
TZ Cell B G-2	8"	11/10/2011	<15.2	429	143	572	1.70
TZ Cell B G-3	8"	11/10/2011	<15.9	260	74.8	335	1.92
TZ Cell B G-4	8"	11/10/2011	<15.8	197	75.0	272	1.44
TZ Cell B G-1	0.5'	6/12/2012	<52.4	411	176	587	10.9
TZ Cell B G-2	0.5'	6/12/2012	<52.9	539	213	752	11.9
TZ Cell B G-3	0.5'	6/12/2012	<52.0	215	99.8	315	11.2
TZ Cell B G-4	0.5'	6/12/2012	<52.9	120	<52.9	120	8.45
TZ Cell B G-1	0.5'	10/29/2012	<15.7	352	25.4	377	3.86
TZ Cell B G-2	0.5'	10/29/2012	<15.6	265	15.6	281	21.4
TZ Cell B G-3	0.5'	10/29/2012	<15.6	145	<15.6	145	10.2
TZ Cell B G-4	0.5'	10/29/2012	<15.4	86.6	<15.4	86.6	4.69
TZ Cell B G-1	0.5'	5/24/2013	<15.2	535	160	695	10.6
TZ Cell B G-2	0.5'	5/24/2013	<15.1	264	131	395	11.2
TZ Cell B G-3	0.5'	5/24/2013	<15.2	211	106	317	12.0
TZ Cell B G-4	0.5'	5/24/2013	<15.5	109	58.9	168	9.59
TZ Cell B G-1	0.5'	11/13/2013	<15.9	457	110	567	4.46
TZ Cell B G-2	0.5'	11/13/2013	<15.7	240	82.3	322	14.7

TABLE 7

2008 - 2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell B G-3	0.5'	11/13/2013	<15.5	239	87.2	326	18.8
TZ Cell B G-4	0.5'	11/13/2013	<15.5	110	41.3	151	19.9
Cell C TZ G 1	8"	6/16/2009	<15.1	112	56.4	168.4	36.6
Cell C TZ G 2	8"	6/16/2009	<15.1	116	58	174	20.6
Cell C TZ G 3	8"	6/16/2009	<15.1	177	75.7	252.7	16.7
Cell C TZ G 4	8"	6/16/2009	<15.0	194	84.4	278.4	10.5
Cell C TZ G 5	8"	6/16/2009	<15.0	225	87.2	312.2	10.8
Cell D TZ G 1	8"	6/16/2009	<15.1	643	133	776	48.9
Cell D TZ G 2	8"	6/16/2009	<15.1	1000	185	1,185	80.8
Cell D TZ G 3	8"	6/16/2009	<15.1	1300	210	1,510	85
Cell D TZ G 4	8"	6/16/2009	<15.1	1320	196	1,516	25.7
Cell D TZ G 5	8"	6/16/2009	<15.0	1090	169	1,259	10.4
Cell D TZ G 1	8"	10/27/2009	<15.7	516	33.3	549.3	60.1
Cell D TZ G 2	8"	10/27/2009	<15.7	1210	67.1	1,277.1	73
Cell D TZ G 3	8"	10/27/2009	<15.8	1340	77.8	1,417.8	110
Cell D TZ G 4	8"	10/27/2009	<15.4	1190	65.1	1,255.1	25.5
Cell D TZ G 5	8"	10/27/2009	<15.1	1320	65.6	1,385.6	11.5
Cell D TZ G-1	8"	6/7/2010	<15.4	707	112	819	35.1
Cell D TZ G-2	8"	6/7/2010	<15.4	685	99.5	785	31.3
Cell D TZ G-3	8"	6/7/2010	<15.4	1230	156	1,386	50.2
Cell D TZ G-4	8"	6/7/2010	<15.3	1230	150	1,380	20.6
Cell D TZ G-5	8"	6/7/2010	<15.2	1260	140	1,400	10.6
TZ Cell D G-1	8"	11/1/2010	<15.3	411	63.2	474	20.4
TZ Cell D G-2	8"	11/1/2010	<15.4	459	72.9	532	51.3
TZ Cell D G-3	8"	11/1/2010	<15.7	601	86.5	688	14.7
TZ Cell D G-4	8"	11/1/2010	18.1	812	124	954	<4.26
TZ Cell D G-5	8"	11/1/2010	<15.2	418	63.6	482	<4.26
TZ Cell D G-1	8"	6/13/2011	<15.2	670	21.9	692	13.8
TZ Cell D G-2	8"	6/13/2011	<15.2	898	21.2	919	35.3
TZ Cell D G-3	8"	6/13/2011	<15.1	1,140	<15.1	1,140	33.2
TZ Cell D G-4	8"	6/13/2011	<15.0	1,250	<15.0	1,250	14.9
TZ Cell D G-5	8"	6/13/2011	<15.0	973	<15.0	973	6.55
TZ Cell D G-1	8"	11/10/2011	<15.6	259	126	770	3.11
TZ Cell D G-2	8"	11/10/2011	<15.6	436	177	1,230	12.3
TZ Cell D G-3	8"	11/10/2011	<15.3	521	214	1,470	5.94
TZ Cell D G-4	8"	11/10/2011	<15.5	594	218	1,620	2.12
TZ Cell D G-5	8"	11/10/2011	<15.3	609	216	1,650	2.35
TZ Cell D G-1	0.5'	6/12/2012	<52.8	421	130	551	9.54
TZ Cell D G-2	0.5'	6/12/2012	<53.4	278	76.6	355	8.79
TZ Cell D G-3	0.5'	6/12/2012	<51.7	465	108	573	14.0
TZ Cell D G-4	0.5'	6/12/2012	<51.7	462	153	615	7.76
TZ Cell D G-5	0.5'	6/12/2012	<51.3	429	136	565	7.91
TZ Cell D G-1	0.5'	10/29/2012	<15.5	269	34.6	304	5.07

TABLE 7

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PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell D G-2	0.5'	10/29/2012	<15.6	260	28.9	289	7.50
TZ Cell D G-3	0.5'	10/29/2012	<15.6	299	37.7	337	6.61
TZ Cell D G-4	0.5'	10/29/2012	<15.4	229	27.0	256	4.33
TZ Cell D G-5	0.5'	10/29/2012	<15.3	406	38.4	444	3.18
TZ Cell D G-1	0.5'	5/24/2013	<16.3	119	48.3	167	5.99
TZ Cell D G-2	0.5'	5/24/2013	<15.2	389	190	579	28.8
TZ Cell D G-3	0.5'	5/24/2013	<15.1	511	233	744	25.7
TZ Cell D G-4	0.5'	5/24/2013	<15.0	528	213	741	17.2
TZ Cell D G-5	0.5'	5/24/2013	<15.0	481	216	697	10.8
TZ Cell D G-1	0.5'	11/13/2013	<15.4	549	155	704	37.5
TZ Cell D G-2	0.5'	11/13/2013	<15.6	526	168	694	75.6
TZ Cell D G-3	0.5'	11/13/2013	<15.3	593	187	780	37.8
TZ Cell D G-4	0.5'	11/13/2013	<15.6	636	148	784	17.1
TZ Cell D G-5	0.5'	11/13/2013	<15.6	714	155	869	12.7
Cell E TZ G 1	8"	6/16/2009	<15.0	273	94.1	367.1	<5.0
Cell E TZ G 2	8"	6/16/2009	<15.0	387	123	510	5.57
Cell E TZ G 3	8"	6/16/2009	<15.0	139	59.5	198.5	<5.02
Cell E TZ G 4	8"	6/16/2009	<15.0	37.3	26.2	63.5	<5.04
Cell E TZ G 1	8"	10/27/2009	<15.2	544	48.7	592.7	<4.28
Cell E TZ G 2	8"	10/27/2009	<15.3	567	50.9	617.9	<4.28
Cell E TZ G 3	8"	10/27/2009	<15.2	250	28.8	278.8	<4.27
Cell E TZ G 4	8"	10/27/2009	-	-	-	-	-
Cell E TZ G-1	8"	6/7/2010	<15.4	281	61	342	14.3
Cell E TZ G-2	8"	6/7/2010	<75.9	326	<75.9	326	13.3
Cell E TZ G-3	8"	6/7/2010	<15.2	139	35.4	174	8.12
TZ Cell E G-1	8"	11/1/2010	<15.4	159	27.2	186	<4.3
TZ Cell E G-2	8"	11/1/2010	<15.1	200	32.3	232	<4.26
TZ Cell E G-3	8"	11/1/2010	<15.4	129	25.7	155	<4.28
TZ Cell E G-1	8"	6/13/2011	<15.1	328	21.7	350	6.40
TZ Cell E G-2	8"	6/13/2011	<15.1	312	28.7	341	4.22
TZ Cell E G-3	8"	6/13/2011	<15.1	212	25.5	238	<4.24
TZ Cell E G-1	8"	11/10/2011	<15.4	198	69.9	268	1.45
TZ Cell E G-2	8"	11/10/2011	<15.6	174	58.9	233	1.41
TZ Cell E G-3	8"	11/10/2011	<15.3	45.2	18.7	63.9	1.42
TZ Cell E G-4	8"	11/10/2011	<15.3	181	75.8	257	1.46
TZ Cell E G-1	0.5'	6/12/2012	<51.7	121	<51.7	121	7.43
TZ Cell E G-2	0.5'	6/12/2012	<51.4	171	61.6	233	6.46
TZ Cell E G-3	0.5'	6/12/2012	<51.6	111	<51.6	111	6.39
TZ Cell E G-4	0.5'	6/12/2012	<51.4	<51.4	<51.4	<51.4	6.14
TZ Cell E G-1	0.5'	10/29/2012	<15.3	126	<15.3	126	<0.99
TZ Cell E G-2	0.5'	10/29/2012	<15.4	126	<15.4	126	1.15
TZ Cell E G-3	0.5'	10/29/2012	<15.3	92.0	<15.3	92.0	<1.02
TZ Cell E G-4	0.5'	10/29/2012	<15.3	39.5	<15.3	39.5	<1.02
TZ Cell E G-1	0.5'	5/24/2013	<15.2	119	61.9	181	7.03
TZ Cell E G-2	0.5'	5/24/2013	<15.0	120	56.7	177	6.65

TABLE 7

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PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell E G-3	0.5'	5/24/2013	<15.1	74.7	38.9	114	6.30
TZ Cell E G-4	0.5'	5/24/2013	<15.1	45.6	27.3	72.9	5.90
TZ Cell E G-1	0.5'	11/13/2013	<15.5	<15.5	<15.5	<15.5	6.71
TZ Cell E G-2	0.5'	11/13/2013	<15.4	<15.4	<15.4	<15.4	6.83
TZ Cell E G-3	0.5'	11/13/2013	<15.5	<15.5	<15.5	<15.5	6.47
TZ Cell E G-4	0.5'	11/13/2013	<15.2	<15.2	<15.2	<15.2	3.32
Cell F TZ G 1	8"	6/16/2009	<15.1	930	140	1,070	113
Cell F TZ G 2	8"	6/16/2009	<15.1	1090	155	1,245	162
Cell F TZ G 3	8"	6/16/2009	<15.1	1300	164	1,464	207
Cell F TZ G 4	8"	6/16/2009	<15.1	1370	179	1,549	198
Cell F TZ G 5	8"	6/16/2009	<15.1	927	137	1,064	168
Cell F TZ G 1	8"	10/27/2009	<15.6	771	42.3	813.3	122
Cell F TZ G 2	8"	10/27/2009	<15.8	982	58.2	1,040.2	154
Cell F TZ G 3	8"	10/27/2009	<15.6	1270	59.1	1,329.1	151
Cell F TZ G 4	8"	10/27/2009	<15.7	1230	55.4	1,285.4	135
Cell F TZ G 5	8"	10/27/2009	<15.2	953	52.3	1,005.3	100
Cell F TZ G-1	8"	6/7/2010	<15.4	379	40.2	419	79.8
Cell F TZ G-2	8"	6/7/2010	<15.3	864	73.2	937	71.4
Cell F TZ G-3	8"	6/7/2010	<15.4	1020	67.4	1,087	54.7
Cell F TZ G-4	8"	6/7/2010	123	933	204	1,260	22.9
Cell F TZ G-5	8"	6/7/2010	<15.3	605	64.1	669	20.3
TZ Cell F G-1	8"	11/1/2010	<15.3	349	52.4	401	48.7
TZ Cell F G-2	8"	11/1/2010	<15.4	563	66.3	629	132
TZ Cell F G-3	8"	11/1/2010	<15.4	507	40.9	548	30.4
TZ Cell F G-4	8"	11/1/2010	<15.8	373	23	396	43.1
TZ Cell F G-5	8"	11/1/2010	24	194	<15.7	218	<4.37
TZ Cell F G-1	8"	6/13/2011	<15.1	799	26.1	825	<4.24
TZ Cell F G-2	8"	6/13/2011	<15.1	733	26.4	759	<8.48
TZ Cell F G-3	8"	6/13/2011	<15.1	1,150	23.8	1,170	94.3
TZ Cell F G-4	8"	6/13/2011	<15.0	492	21.8	514	<4.22
TZ Cell F G-5	8"	6/13/2011	<15.1	999	25.7	1,020	<4.24
TZ Cell F G-1	8"	11/10/2011	<15.4	561	217	1,560	10.6
TZ Cell F G-2	8"	11/10/2011	<15.3	516	202	1,440	10.8
TZ Cell F G-3	8"	11/10/2011	<15.4	762	255	2,030	19.8
TZ Cell F G-4	8"	11/10/2011	<15.6	537	223	1,520	5.51
TZ Cell F G-5	8"	11/10/2011	<15.7	264	125	778	2.16
TZ Cell F G-1	0.5'	6/12/2012	<51.8	359	141	500	23.6
TZ Cell F G-2	0.5'	6/12/2012	<51.9	373	126	499	18.1
TZ Cell F G-3	0.5'	6/12/2012	<52.8	594	195	789	24.4
TZ Cell F G-4	0.5'	6/12/2012	<51.7	501	151	652	8.02
TZ Cell F G-5	0.5'	6/12/2012	<53.0	240	75.4	315	14.1
TZ Cell F G-1	0.5'	10/29/2012	<15.6	290	37.1	327	6.23
TZ Cell F G-2	0.5'	10/29/2012	<15.7	220	29.1	249	8.75
TZ Cell F G-3	0.5'	10/29/2012	<15.6	439	54.0	493	7.80

TABLE 7

2008 - 2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell F G-4	0.5'	10/29/2012	<15.5	283	31.0	314	10.6
TZ Cell F G-5	0.5'	10/29/2012	<15.4	287	31.8	319	4.89
TZ Cell F G-1	0.5'	5/24/2013	<15.1	260	140	400	28.2
TZ Cell F G-2	0.5'	5/24/2013	<15.2	304	165	469	26.6
TZ Cell F G-3	0.5'	5/24/2013	<15.2	391	194	585	34.9
TZ Cell F G-4	0.5'	5/24/2013	<15.2	370	140	510	19.5
TZ Cell F G-5	0.5'	5/24/2013	<15.1	232	122	354	13.3
TZ Cell F G-1	0.5'	11/13/2013	<15.8	<15.8	<15.8	<15.8	22.5
TZ Cell F G-2	0.5'	11/13/2013	<15.5	452	25.4	477	38.2
TZ Cell F G-3	0.5'	11/13/2013	<15.5	703	19.1	722	35.7
TZ Cell F G-4	0.5'	11/13/2013	<15.4	438	21.2	459	21.9
TZ Cell F G-5	0.5'	11/13/2013	20.4	366	18.8	405	<4.18
Cell G TZ G 1	8"	6/18/2009	<15.0	563	68.2	631.2	15.1
Cell G TZ G 2	8"	6/18/2009	180	3380	145	3,705	27.4
Cell G TZ G 3	8"	6/18/2009	875	5770	514	7,159	29.5
Cell G TZ G 4	8"	6/18/2009	858	6480	445	7,783	35.2
Cell G TZ G 5	8"	6/18/2009	761	7810	548	9,119	41
Cell G TZ G 1	8"	10/27/2009	45.2	1570	59	1,674.2	20.4
Cell G TZ G 2	8"	10/27/2009	296	7910	242	8,448	23.2
Cell G TZ G 3	8"	10/27/2009	79.1	4200	85.1	4,364.2	50.9
Cell G TZ G 4	8"	10/27/2009	90.1	4410	85	4,585.1	53.3
Cell G TZ G 5	8"	10/27/2009	16.8	1470	54.3	1,541.1	42.6
Cell G TZ G-1	8"	6/7/2010	25.8	923	82	1,031	8.84
Cell G TZ G-2	8"	6/7/2010	43.2	2070	94.8	2,208	12
Cell G TZ G-3	8"	6/7/2010	23.5	1620	112	1,756	8.95
Cell G TZ G-4	8"	6/7/2010	23.5	1700	102	1,826	14.1
Cell G TZ G-5	8"	6/7/2010	30.8	715	58.7	805	5.17
TZ Cell G G-1	8"	11/1/2010	24	981	33.6	1,039	<4.25
TZ Cell G G-2	8"	11/1/2010	<15.2	3370	98.1	3,468	6.53
TZ Cell G G-3	8"	11/1/2010	19.2	2660	71.6	2,751	11.3
TZ Cell G G-4	8"	11/1/2010	<15.2	2270	63.4	2,333	17.8
TZ Cell G G-5	8"	11/1/2010	24.5	886	23.2	934	<4.24
TZ Cell G G-1	8"	6/13/2011	21.4	2,400	<15.1	2,420	9.15
TZ Cell G G-2	8"	6/13/2011	19.5	2,450	19.8	2,490	11.0
TZ Cell G G-3	8"	6/13/2011	<15.4	349	<15.4	349	31.4
TZ Cell G G-4	8"	6/13/2011	<15.4	307	<15.4	307	10.3
TZ Cell G G-5	8"	6/13/2011	<15.3	1,450	17.3	1,470	7.07
TZ Cell G G-1	8"	11/10/2011	17.3	2,510	397	2,920	1.69
TZ Cell G G-2	8"	11/10/2011	<15.9	1,190	277	1,470	2.02
TZ Cell G G-3	8"	11/10/2011	15.8	2,040	370	2,410	3.55
TZ Cell G G-4	8"	11/10/2011	15.8	2,590	510	3,120	2.79
TZ Cell G G-5	8"	11/10/2011	<15.9	370	92.7	463	<1.06
TZ Cell G G-1	0.5'	6/12/2012	<51.1	1,950	308	2,260	7.81
TZ Cell G G-2	0.5'	6/12/2012	<51.4	1,390	199	1,590	8.43

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SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell G G-3	0.5'	6/12/2012	<51.8	2,930	422	3,250	7.80
TZ Cell G G-4	0.5'	6/12/2012	<52.3	1,900	403	2,300	6.99
TZ Cell G G-5	0.5'	6/12/2012	<50.0	744	169	913	5.63
TZ Cell G G-1	0.5'	10/29/2012	<15.5	1,410	123	1,530	1.49
TZ Cell G G-2	0.5'	10/29/2012	<15.4	1,990	175	2,170	<1.01
TZ Cell G G-3	0.5'	10/29/2012	<15.4	1,760	129	1,890	5.97
TZ Cell G G-4	0.5'	10/29/2012	<15.4	1,630	166	1,800	1.24
TZ Cell G G-5	0.5'	10/29/2012	<15.2	1,060	118	1,180	7.90
TZ Cell G G-1	0.5'	5/24/2013	<15.1	907	304	1,210	15.7
TZ Cell G G-2	0.5'	5/24/2013	<15.2	1,470	328	1,800	14.9
TZ Cell G G-3	0.5'	5/24/2013	<15.1	1,780	452	2,230	15.2
TZ Cell G G-4	0.5'	5/24/2013	<15.1	1,600	389	1,990	14.6
TZ Cell G G-5	0.5'	5/24/2013	<15.1	820	243	1,060	12.1
TZ Cell G G-1	0.5'	11/13/2013	<15.2	220	<15.2	220	4.38
TZ Cell G G-2	0.5'	11/13/2013	<15.6	728	25.7	754	9.98
TZ Cell G G-3	0.5'	11/13/2013	<15.5	1,780	36.8	1,820	30.1
TZ Cell G G-4	0.5'	11/13/2013	<15.3	1,190	32.5	1,220	10.8
TZ Cell G G-5	0.5'	11/13/2013	<15.4	1,160	42.6	1,200	12.3
Cell H TZ G 1	8"	6/18/2009	459	2780	279	3,518	<5.02
Cell H TZ G 2	8"	6/18/2009	761	2710	284	3,755	10.3
Cell H TZ G 1	8"	10/27/2009	138	4170	83.7	4,391.7	26.8
Cell H TZ G 2	8"	10/27/2009	138	5190	85	5,413	15.8
Cell H TZ G 3	8"	10/27/2009	124	5050	94.6	5,268.6	<4.35
Cell H TZ G-1	8"	6/7/2010	112	2380	282	2,774	42.5
Cell H TZ G-2	8"	6/7/2010	175	2870	180	3,225	14.2
Cell H TZ G-3	8"	6/7/2010	<15.7	299	53.5	353	8.07
TZ Cell H G-1	8"	11/1/2010	<76.8	3560	92.6	3,653	116
TZ Cell H G-2	8"	11/1/2010	20.3	2740	71.1	2,831	160
TZ Cell H G-3	8"	11/1/2010	<15.5	695	28.7	724	166
TZ Cell H G-1	8"	6/13/2011	61.6	3,770	<15.2	3,830	89.3
TZ Cell H G-2	8"	6/13/2011	<16.6	205	<16.6	205	78.7
TZ Cell H G-3	8"	6/13/2011	52.3	1,520	22.0	1,590	26.3
TZ Cell H G-4	8"	6/13/2011	55.6	1,770	24.1	1,850	15.7
TZ Cell H G-5	8"	6/13/2011	42.9	1,160	27.5	1,230	10.7
TZ Cell H G-1	8"	11/10/2011	<15.9	1,300	293	3,190	6.46
TZ Cell H G-2	8"	11/10/2011	<15.6	1,540	365	3,810	84.4
TZ Cell H G-3	8"	11/10/2011	<15.5	759	212	1,940	6.01
TZ Cell H G-4	8"	11/10/2011	<15.8	622	193	1,630	5.31
TZ Cell H G-5	8"	11/10/2011	<15.7	359	113	944	3.79
TZ Cell H G-1	0.5'	6/12/2012	<51.8	2,300	486	2,790	13.9
TZ Cell H G-2	0.5'	6/12/2012	<51.5	1,760	435	2,200	27.3
TZ Cell H G-3	0.5'	6/12/2012	<51.9	826	253	1,080	38.6
TZ Cell H G-4	0.5'	6/12/2012	<52.0	502	160	662	8.31
TZ Cell H G-5	0.5'	6/12/2012	<51.7	213	52.9	266	6.76
TZ Cell H G-1	0.5'	10/29/2012	<15.5	1,560	172	1,730	27.6
TZ Cell H G-2	0.5'	10/29/2012	<15.6	1,380	184	1,560	28.6

TABLE 7

2008 - 2013 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell H G-3	0.5'	10/29/2012	<15.7	580	82.9	663	23.9
TZ Cell H G-4	0.5'	10/29/2012	<15.7	377	48.8	426	9.07
TZ Cell H G-5	0.5'	10/29/2012	<15.5	309	42.0	351	3.85
TZ Cell H G-1	0.5'	5/24/2013	<15.2	1,670	524	2,190	34.2
TZ Cell H G-2	0.5'	5/24/2013	<15.2	1,760	457	2,220	61.0
TZ Cell H G-3	0.5'	5/24/2013	<15.1	775	208	983	19.7
TZ Cell H G-4	0.5'	5/24/2013	<15.1	558	177	735	16.2
TZ Cell H G-5	0.5'	5/24/2013	<15.1	221	78	299	12.7
TZ Cell H G-1	0.5'	11/13/2013	<15.7	2,160	75.0	2,240	56.5
TZ Cell H G-2	0.5'	11/13/2013	25.4	1,160	79.4	1,260	62.3
TZ Cell H G-3	0.5'	11/13/2013	<15.7	431	57.5	489	30.2
TZ Cell H G-4	0.5'	11/13/2013	23.9	588	76.7	689	45.8
TZ Cell H G-5	0.5'	11/13/2013	<15.4	401	45.9	447	17.3

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell A VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.30
Cell A VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell A VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.15
Cell A VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	<5.32
Cell A VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.25
Cell A VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.17
Cell A VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	<5.34
Cell A VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	<5.76
Cell A VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	<5.71
Cell A VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	<6.10
Cell A VZ G 1 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	<5.12
Cell A VZ G 2 (3'-4')	3' - 4'	6/17/2009	<0.0009	<0.0019	<0.0009	<0.0019	<0.009	<0.0019	<14.0	<14.0	<14.0	<14.0	<4.65
Cell A VZ G 3 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.02
Cell A VZ G 4 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.05
Cell A VZ G 5 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.05
Cell A VZ G 1 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.17
Cell A VZ G 2 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	5.75
Cell A VZ G 3 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell A VZ G 4 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.61
Cell A VZ G 5 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	<5.38
Cell A VZ G-1	3' - 4'	6/9/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	8.53
Cell A VZ G-2	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	9.82
Cell A VZ G-3	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	7.81
Cell A VZ G-4	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.21
Cell A VZ G-5	3' - 4'	6/9/2010	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	7.6
VZ Cell A G-1	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<4.60
VZ Cell A G-2	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<17	<17	<17	<17	5.41
VZ Cell A G-3	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.9	<16.9	<16.9	<16.9	<4.71
VZ Cell A G-4	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<4.62
VZ Cell A G-5	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	<4.53
VZ Cell A G-1	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	7.75
VZ Cell A G-2	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	4.44
VZ Cell A G-3	3' - 4'	6/13/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<4.75
VZ Cell A G-4	3' - 4'	6/13/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	<4.98

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell A G-5	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<4.35
VZ Cell A G-1	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	8.73
VZ Cell A G-2	3' - 4'	11/10/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	9.39
VZ Cell A G-3	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<17.0	<17.0	<17.0	<17.0	<5.66
VZ Cell A G-4	3' - 4'	11/10/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.5	<17.5	<17.5	<17.5	9.79
VZ Cell A G-5	3' - 4'	11/10/2011	<0.0012	<0.0025	<0.0012	<0.0025	<0.0012	<0.0025	<18.7	<18.7	<18.7	<18.7	<6.24
VZ Cell A G-1	3' - 4'	6/12/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<55.0	<55.0	<55.0	<55.0	9.26
VZ Cell A G-2	3' - 4'	6/12/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<55.7	<55.7	<55.7	<55.7	8.53
VZ Cell A G-3	3' - 4'	6/12/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<52.1	<52.1	<52.1	<52.1	5.11
VZ Cell A G-4	3' - 4'	6/12/2012	<0.0012	<0.0012	<0.0012	<0.0024	<0.0012	<0.0024	<62.4	<62.4	<62.4	<62.4	17.6
VZ Cell A G-5	3' - 4'	6/12/2012	<0.0012	<0.0012	<0.0012	<0.0024	<0.0012	<0.0024	<61.8	<61.8	<61.8	<61.8	7.76
VZ Cell A G-1	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	2.31
VZ Cell A G-2	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	<1.05
VZ Cell A G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0019	<0.0010	<0.0019	<15.4	<15.4	<15.4	<15.4	1.66
VZ Cell A G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.9	<15.9	<15.9	<15.9	<1.04
VZ Cell A G-5	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.8	<15.8	<15.8	<15.8	<1.06
VZ Cell A G-1	3' - 4'	5/24/2013	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.9	<17.9	<17.9	<17.9	4.44
VZ Cell A G-2	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	3.90
VZ Cell A G-3	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.5	<17.5	<17.5	<17.5	14.9
VZ Cell A G-4	3' - 4'	5/24/2013	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	<0.0026	<19.5	<19.5	<19.5	<19.5	7.77
VZ Cell A G-5	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	3.03
VZ Cell A G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.64
VZ Cell A G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.78
VZ Cell A G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.70
VZ Cell A G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.98
VZ Cell A G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	8.57
Cell B VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell B VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	<0.0026	<19.3	<19.3	<19.3	<19.3	<6.44
Cell B VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.31
Cell B VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell B VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.02
Cell B VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.61
Cell B VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.55

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell B VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.26
Cell B VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell B VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<5.50
Cell B VZ G 1 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell B VZ G 2 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell B VZ G 3 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.03
Cell B VZ G 4 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.02
Cell B VZ G 5 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.03
Cell B VZ G 1 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	10.8
Cell B VZ G 2 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.28
Cell B VZ G 3 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.17
Cell B VZ G 4 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell B VZ G 5 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.10
Cell B VZ G-1	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	14.9
Cell B VZ G-2	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	6.29
Cell B VZ G-3	3' - 4'	6/9/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<15.9	<15.9	<15.9	<15.9	6.39
Cell B VZ G-4	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	6.42
Cell B VZ G-5	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	5.64
VZ Cell B G-1	3' - 4'	11/2/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.9	<17.9	<17.9	<17.9	145
VZ Cell B G-2	3' - 4'	11/2/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	<4.28
VZ Cell B G-3	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<4.38
VZ Cell B G-4	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	<4.41
VZ Cell B G-5	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<15.5
VZ Cell B G-1	3' - 4'	6/13/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	7.60
VZ Cell B G-2	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	<4.53
VZ Cell B G-3	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<4.41
VZ Cell B G-4	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	<4.38
VZ Cell B G-5	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	<4.58
VZ Cell B G-1	3' - 4'	11/10/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	1.77
VZ Cell B G-2	3' - 4'	11/10/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	<1.14
VZ Cell B G-3	3' - 4'	11/10/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<1.03
VZ Cell B G-4	3' - 4'	11/10/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	1.53
VZ Cell B G-5	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	<5.93
VZ Cell B G-1	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<54.0	<54.0	<54.0	<54.0	8.71

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell B G-2	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<52.4	<52.4	<52.4	<52.4	5.66
VZ Cell B G-3	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<56.8	<56.8	<56.8	<56.8	7.16
VZ Cell B G-4	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.9	<51.9	<51.9	<51.9	18.6
VZ Cell B G-5	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<55.2	<55.2	<55.2	<55.2	5.96
VZ Cell B G-1	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.3	<15.3	<15.3	<15.3	1.99
VZ Cell B G-2	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	<1.04
VZ Cell B G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0019	<0.0010	<0.0019	<15.4	<15.4	<15.4	<15.4	<1.12
VZ Cell B G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<16.4	<16.4	<16.4	<16.4	5.08
VZ Cell B G-5	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	<0.991
VZ Cell B G-1	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	7.28
VZ Cell B G-2	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	3.48
VZ Cell B G-3	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	3.25
VZ Cell B G-4	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	2.94
VZ Cell B G-5	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	2.57
VZ Cell B G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	18.3
VZ Cell B G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.26
VZ Cell B G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.84
VZ Cell B G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	11.3
VZ Cell B G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	4.53
Cell C VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.41
Cell C VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	<5.80
Cell C VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	<5.94
Cell C VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.19
Cell C VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	<5.46
Cell C VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	<6.09
Cell C VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.19
Cell C VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.4	<18.4	<18.4	<18.4	<6.12
Cell C VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.74
Cell C VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.60
Cell C VZ G 1 (3'-4')	3' - 4'	6/17/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	<5.37
Cell C VZ G 2 (3'-4')	3' - 4'	6/17/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<5.49
Cell C VZ G 3 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.05
Cell C VZ G 4 (3'-4')	3' - 4'	6/17/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	6.06

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell C VZ G 5 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.08
Cell C VZ G 1 (3'-4')	3' - 4'	10/27/2009							<15.7	<15.7	<15.7	<15.7	<5.23
Cell C VZ G 2 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.4	<17.4	<17.4	<17.4	<5.79
Cell C VZ G 3 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	<5.48
Cell C VZ G 4 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	5.17
Cell C VZ G 5 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	6.72
Cell C VZ G-1	3' - 4'	6/9/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.30
Cell C VZ G-2	3' - 4'	6/9/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<15.8	<15.8	<15.8	<15.8	<5.27
Cell C VZ G-3	3' - 4'	6/9/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	15.8
Cell C VZ G-4	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	<5.14
Cell C VZ G-5	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	8.71
VZ Cell C G-1	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	<4.56
VZ Cell C G-2	3' - 4'	11/2/2010	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<4.74
VZ Cell C G-3	3' - 4'	11/2/2010	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	<4.84
VZ Cell C G-4	3' - 4'	11/2/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	<4.34
VZ Cell C G-5	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<4.52
VZ Cell C G-1	3' - 4'	6/13/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	8.19
VZ Cell C G-2	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.32
VZ Cell C G-3	3' - 4'	6/13/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.0	<18.0	<18.0	<18.0	7.30
VZ Cell C G-4	3' - 4'	6/13/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.2	<17.2	<17.2	<17.2	8.75
VZ Cell C G-5	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	8.56
VZ Cell C G-1	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	<6.10
VZ Cell C G-2	3' - 4'	11/10/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	7.88
VZ Cell C G-3	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.2	<18.2	<18.2	<18.2	<6.05
VZ Cell C G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	7.69
VZ Cell C G-5	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.9	<16.9	<16.9	<16.9	<5.64
VZ Cell C G-1	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<56.0	<56.0	<56.0	<56.0	5.58
VZ Cell C G-2	3' - 4'	6/13/2012	<0.0012	<0.0012	<0.0012	<0.0024	<0.0012	<0.0024	<60.8	<60.8	<60.8	<60.8	6.49
VZ Cell C G-3	3' - 4'	6/13/2012	<0.0038	<0.0038	<0.0038	<0.0075	<0.0038	<0.0075	<191	<191	<191	<191	22.0
VZ Cell C G-4	3' - 4'	6/13/2012	<0.0012	<0.0012	<0.0012	<0.0024	<0.0012	<0.0024	<60.2	<60.2	<60.2	<60.2	7.86
VZ Cell C G-5	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<56.6	<56.6	<56.6	<56.6	6.20
VZ Cell C G-1	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.8	<15.8	<15.8	<15.8	<0.997
VZ Cell C G-2	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<0.960
VZ Cell C G-3	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<1.06

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell C G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<0.971
VZ Cell C G-5	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<1.03
VZ Cell C G-1	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.5	<17.5	<17.5	<17.5	3.96
VZ Cell C G-2	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	2.96
VZ Cell C G-3	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.6	<17.6	<17.6	<17.6	3.16
VZ Cell C G-4	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.5	<17.5	<17.5	<17.5	5.19
VZ Cell C G-5	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	4.48
VZ Cell C G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.58
VZ Cell C G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	6.72
VZ Cell C G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	7.21
VZ Cell C G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	3.52
VZ Cell C G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.3	<16.3	<16.3	<16.3	<2.17
Cell D VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.73
Cell D VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	<5.68
Cell D VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.15
Cell D VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.63
Cell D VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.58
Cell D VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.53
Cell D VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.41
Cell D VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.53
Cell D VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.73
Cell D VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.61
Cell D VZ G 1 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell D VZ G 2 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	<5.14
Cell D VZ G 3 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.02
Cell D VZ G 4 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.06
Cell D VZ G 5 (3'-4')	3' - 4'	6/17/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.03
Cell D VZ G 1 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell D VZ G 2 (3'-4')	3' - 4'	10/27/2009	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	<5.89
Cell D VZ G 3 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.31
Cell D VZ G 4 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.55
Cell D VZ G 5 (3'-4')	3' - 4'	10/27/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell D VZ G-1	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.21

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell D VZ G-2	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	13.1
Cell D VZ G-3	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell D VZ G-4	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	5.94
Cell D VZ G-5	3' - 4'	6/9/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.2	<15.2	<15.2	<15.2	22.7
VZ Cell D G-1	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<4.36
VZ Cell D G-2	3' - 4'	11/2/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	26.1
VZ Cell D G-3	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	32.4
VZ Cell D G-4	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	4.97
VZ Cell D G-5	3' - 4'	11/2/2010	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.2	<17.2	<17.2	<17.2	5.15
VZ Cell D G-1	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	36.6
VZ Cell D G-2	3' - 4'	6/13/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	25.0
VZ Cell D G-3	3' - 4'	6/13/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	5.85
VZ Cell D G-4	3' - 4'	6/13/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	<5.15
VZ Cell D G-5	3' - 4'	6/13/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.2	<17.2	<17.2	<17.2	5.8
VZ Cell D G-1	3' - 4'	11/10/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	5.74
VZ Cell D G-2	3' - 4'	11/10/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.28
VZ Cell D G-3	3' - 4'	11/10/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	9.02
VZ Cell D G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	7.42
VZ Cell D G-5	3' - 4'	11/10/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	7.30
VZ Cell D G-1	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.3	<51.3	<51.3	<51.3	6.82
VZ Cell D G-2	3' - 4'	6/13/2012	<0.0012	<0.0012	<0.0012	<0.0023	<0.0012	<0.0023	<57.8	<57.8	<57.8	<57.8	27.7
VZ Cell D G-3	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<57.4	<57.4	<57.4	<57.4	6.67
VZ Cell D G-4	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<57.5	<57.5	<57.5	<57.5	11.4
VZ Cell D G-5	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<55.4	<55.4	<55.4	<55.4	6.90
VZ Cell D G-1	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	25.8
VZ Cell D G-2	3' - 4'	10/29/2012	<0.0012	<0.0012	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	4.90
VZ Cell D G-3	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	20.2
VZ Cell D G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<1.10
VZ Cell D G-5	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<16.7	<16.7	<16.7	<16.7	<1.14
VZ Cell D G-1	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	21.9
VZ Cell D G-2	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.6	<17.6	<17.6	<17.6	27.3
VZ Cell D G-3	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.6	<15.6	<15.6	<15.6	7.16
VZ Cell D G-4	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	2.66
VZ Cell D G-5	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	3.03

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PLAINS MARKETING, LP
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LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
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			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell D G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.3	<16.3	<16.3	<16.3	30.7
VZ Cell D G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.6	<15.6	<15.6	<15.6	10.3
VZ Cell D G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.8	<15.8	<15.8	<15.8	7.21
VZ Cell D G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.4	<16.4	<16.4	<16.4	3.29
VZ Cell D G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.1	<17.1	<17.1	<17.1	3.45
Cell E VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	<5.45
Cell E VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.24
Cell E VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.6	<17.6	<17.6	<17.6	<5.87
Cell E VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.24
Cell E VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	<5.44
Cell E VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.21
Cell E VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	32.1
Cell E VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.40
Cell E VZ G 1 (3'-4')	3' - 4'	6/18/2009	<0.0051	<0.0103	<0.0051	<0.0103	<0.0051	<0.0103	<15.4	<15.4	<15.4	<15.4	<5.01
Cell E VZ G 2 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.24
Cell E VZ G 3 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.08
Cell E VZ G 4 (3'-4')	3' - 4'	6/18/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.32
Cell E VZ G 1 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.63
Cell E VZ G 2 (3'-4')	3' - 4'	10/27/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.63
Cell E VZ G 3 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	5.26
Cell E VZ G 4 (3'-4')	3' - 4'	10/28/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.06
Cell E VZ G-1	3' - 4'	6/9/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.50
Cell E VZ G-2	3' - 4'	6/9/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.26
Cell E VZ G-3	3' - 4'	6/9/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	6.87
Cell E VZ G-4	3' - 4'	6/9/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	5.38
VZ Cell E G-1	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	<4.69
VZ Cell E G-2	3' - 4'	11/2/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<4.44
VZ Cell E G-3	3' - 4'	11/2/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.9	<17.9	<17.9	<17.9	<5.03
VZ Cell E G-4	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<4.64
VZ Cell E G-1	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	<5.37
VZ Cell E G-2	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.56
VZ Cell E G-3	3' - 4'	6/13/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.12
VZ Cell E G-4	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.18

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell E G-1	3' - 4'	11/10/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.14
VZ Cell E G-2	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.0	<18.0	<18.0	<18.0	<6.00
VZ Cell E G-3	3' - 4'	11/10/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	6.87
VZ Cell E G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.59
VZ Cell E G-1	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<52.0	<52.0	<52.0	<52.0	3.26
VZ Cell E G-2	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<52.8	<52.8	<52.8	<52.8	6.31
VZ Cell E G-3	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<52.7	<52.7	<52.7	<52.7	6.60
VZ Cell E G-4	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<56.8	<56.8	<56.8	<56.8	6.09
VZ Cell E G-1	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<1.04
VZ Cell E G-2	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	1.35
VZ Cell E G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	<1.06
VZ Cell E G-4	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<1.07
VZ Cell E G-1	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	2.93
VZ Cell E G-2	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	2.85
VZ Cell E G-3	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	3.40
VZ Cell E G-4	3' - 4'	5/24/2013	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	6.15
VZ Cell E G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.0	<17.0	<17.0	<17.0	<2.26
VZ Cell E G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	3.01
VZ Cell E G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.5	<17.5	<17.5	<17.5	3.58
VZ Cell E G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<18.7	<18.7	<18.7	<18.7	3.73
Cell F VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.08
Cell F VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.06
Cell F VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.29
Cell F VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.10
Cell F VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.52
Cell F VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.04
Cell F VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.02
Cell F VZ G 1 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell F VZ G 2 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<4.99
Cell F VZ G 3 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.01
Cell F VZ G 4 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.08
Cell F VZ G 5 (3'-4')	3' - 4'	6/18/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.25
Cell F VZ G 1 (3'-4')	3' - 4'	10/28/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	7.36

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell F VZ G 2 (3'-4')	3' - 4'	10/28/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.09
Cell F VZ G 3 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.27
Cell F VZ G 4 (3'-4')	3' - 4'	10/28/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.20
Cell F VZ G 5 (3'-4')	3' - 4'	10/28/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.23
Cell F VZ G-1	3' - 4'	6/10/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<14.9	<14.9	<14.9	<14.9	<5.01
Cell F VZ G-2	3' - 4'	6/10/2010	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	<5.69
Cell F VZ G-3	3' - 4'	6/10/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.22
Cell F VZ G-4	3' - 4'	6/10/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	7.9
Cell F VZ G-5	3' - 4'	6/10/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	18.2
VZ Cell F G-1	3' - 4'	11/2/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	40.8
VZ Cell F G-2	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	11.1
VZ Cell F G-3	3' - 4'	11/2/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	<4.31
VZ Cell F G-4	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	26.2
VZ Cell F G-5	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<4.33
VZ Cell F G-1	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	6.75
VZ Cell F G-2	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	7.30
VZ Cell F G-3	3' - 4'	6/13/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	6.63
VZ Cell F G-4	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	7.36
VZ Cell F G-5	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	51.2
VZ Cell F G-1	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	10.4
VZ Cell F G-2	3' - 4'	11/10/2011	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.16
VZ Cell F G-3	3' - 4'	11/10/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	34.6
VZ Cell F G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	8.37
VZ Cell F G-5	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	8.58
VZ Cell F G-1	3' - 4'	6/13/2012	<0.0012	<0.0012	<0.0012	<0.0023	<0.0012	<0.0023	<58.0	<58.0	<58.0	<58.0	8.17
VZ Cell F G-2	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<51.7	<51.7	<51.7	<51.7	6.25
VZ Cell F G-3	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.0	<51.0	<51.0	<51.0	3.12
VZ Cell F G-4	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<53.6	<53.6	<53.6	<53.6	28.7
VZ Cell F G-5	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<53.1	<53.1	<53.1	<53.1	14.9
VZ Cell F G-1	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	2.52
VZ Cell F G-2	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	7.24
VZ Cell F G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.3	<15.3	<15.3	<15.3	1.84
VZ Cell F G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	6.68
VZ Cell F G-5	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	<15.7	<15.7	<15.7	30.6

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell F G-1	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	17.7
VZ Cell F G-2	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	3.33
VZ Cell F G-3	3' - 4'	5/24/2013	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	26.4
VZ Cell F G-4	3' - 4'	5/24/2013	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	29.5
VZ Cell F G-5	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	31.4
VZ Cell F G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<18.7	<18.7	<18.7	<18.7	67.7
VZ Cell F G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	2.99
VZ Cell F G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.3	<17.3	<17.3	<17.3	17.4
VZ Cell F G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.0	<16.0	<16.0	<16.0	15.3
VZ Cell F G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	6.99
Cell G VZ G 1 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	169
Cell G VZ G 2 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell G VZ G 3 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	153
Cell G VZ G 4 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	88.4
Cell G VZ G 5 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	75.6
Cell G VZ G 1 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	337
Cell G VZ G 2 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	29.3
Cell G VZ G 3 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	123
Cell G VZ G 4 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	178
Cell G VZ G 5 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	19.8
Cell G VZ G 1	3' - 4'	6/10/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	8.87
Cell G VZ G-2	3' - 4'	6/10/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	10.9
Cell G VZ G-3	3' - 4'	6/10/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	8.7
Cell G VZ G-4	3' - 4'	6/10/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	6.58
Cell G VZ G-5	3' - 4'	6/10/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	6.79
VZ Cell G G-1	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	11.9
VZ Cell G G-1 @ 4'-5'	4' - 5'	11/2/2010	--	--	--	--	--	--	--	--	--	--	33.6
VZ Cell G G-2	3' - 4'	11/2/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<4.64
VZ Cell G G-3	3' - 4'	11/2/2010	<0.0006	<0.0011	<0.0006	<0.0019	<0.0006	<0.0019	<16.4	<16.4	<16.4	<16.4	<4.62
VZ Cell G G-3 @ 4'-5'	4' - 5'	11/2/2010	--	--	--	--	--	--	--	--	--	--	68.7
VZ Cell G G-4	3' - 4'	11/2/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	8.20
VZ Cell G G-4 @ 4'-5'	4' - 5'	11/2/2010	--	--	--	--	--	--	--	--	--	--	69.9
VZ Cell G G-5	3' - 4'	11/2/2010	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	<4.97

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell G G-1	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	76.9
VZ Cell G G-2	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	9.43
VZ Cell G G-3	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	121
VZ Cell G G-4	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	151
VZ Cell G G-5	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	74.6
VZ Cell G G-1	3' - 4'	11/10/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	8.65
VZ Cell G G-2	3' - 4'	11/10/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.1	<17.1	<17.1	<17.1	11.0
VZ Cell G G-3	3' - 4'	11/10/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	8.26
VZ Cell G G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	6.52
VZ Cell G G-5	3' - 4'	11/10/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	<5.79
VZ Cell G G-1	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.6	<51.6	<51.6	<51.6	7.54
VZ Cell G G-2	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<52.1	<52.1	<52.1	<52.1	4.29
VZ Cell G G-3	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.4	<51.4	<51.4	<51.4	6.27
VZ Cell G G-4	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.5	<51.5	<51.5	<51.5	5.22
VZ Cell G G-5	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.3	<51.3	<51.3	<51.3	4.59
VZ Cell G G-1	3' - 4'	10/29/2012	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	2.02
VZ Cell G G-2	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<1.05
VZ Cell G G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<0.965
VZ Cell G G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	1.31
VZ Cell G G-5	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	6.53
VZ Cell G G-1	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	2.79
VZ Cell G G-2	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	3.72
VZ Cell G G-3	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	7.83
VZ Cell G G-4	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	16.4
VZ Cell G G-5	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	3.49
VZ Cell G G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	6.59
VZ Cell G G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	2.98
VZ Cell G G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	4.80
VZ Cell G G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	6.03
VZ Cell G G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.2	<17.2	<17.2	<17.2	3.24
Cell H VZ G 1 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.04
Cell H VZ G 2 (3'-4')	3' - 4'	6/18/2009	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.07
Cell H VZ G 1 (3'-4')	3' - 4'	10/28/2009	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	<5.76

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
Cell H VZ G 2 (3'-4')	3' - 4'	10/28/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	<5.71
Cell H VZ G 3 (3'-4')	3' - 4'	10/28/2009	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	6.87
Cell H VZ G-1	3' - 4'	6/10/2010	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	11.4
Cell H VZ G-2	3' - 4'	6/10/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.24
Cell H VZ G-3	3' - 4'	6/10/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.26
VZ Cell H G-1	3' - 4'	11/2/2010	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.2	<16.2	<16.2	<16.2	18.7
VZ Cell H G-2	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<4.36
VZ Cell H G-3	3' - 4'	11/2/2010	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<4.36
VZ Cell H G-1	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	11.7
VZ Cell H G-2	3' - 4'	6/13/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.66
VZ Cell H G-3	3' - 4'	6/13/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.3	<17.3	<17.3	<17.3	13.3
VZ Cell H G-4	3' - 4'	6/13/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.56
VZ Cell H G-5	3' - 4'	6/13/2011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.25
VZ Cell H G-1	3' - 4'	11/10/2011	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	10.9
VZ Cell H G-2	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.0	<18.0	<18.0	<18.0	8.28
VZ Cell H G-3	3' - 4'	11/10/2011	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.6	<17.6	<17.6	<17.6	<5.90
VZ Cell H G-4	3' - 4'	11/10/2011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.53
VZ Cell H G-5	3' - 4'	11/10/2011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.63
VZ Cell H G-1	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<51.9	<51.9	<51.9	<51.9	8.72
VZ Cell H G-2	3' - 4'	6/13/2012	<0.0012	<0.0012	<0.0012	<0.0023	<0.0012	<0.0023	<58.5	<58.5	<58.5	<58.5	7.27
VZ Cell H G-3	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<51.8	<51.8	<51.8	<51.8	7.07
VZ Cell H G-4	3' - 4'	6/13/2012	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<52.3	<52.3	<52.3	<52.3	2.01
VZ Cell H G-5	3' - 4'	6/13/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<51.4	<51.4	<51.4	<51.4	1.37
VZ Cell H G-1	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	6.96
VZ Cell H G-2	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	8.31
VZ Cell H G-3	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	20.7
VZ Cell H G-4	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	4.32
VZ Cell H G-5	3' - 4'	10/29/2012	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<1.01
VZ Cell H G-1	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	3.18
VZ Cell H G-2	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	3.50
VZ Cell H G-3	3' - 4'	5/24/2013	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	20.2
VZ Cell H G-4	3' - 4'	5/24/2013	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	2.77
VZ Cell H G-5	3' - 4'	5/24/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	2.62
VZ Cell H G-1	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.6	<15.6	<15.6	<15.6	13.0

TABLE 8

2008 - 2013 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
VZ Cell H G-2	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	15.9
VZ Cell H G-3	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5	4.89
VZ Cell H G-4	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	2.81
VZ Cell H G-5	3' - 4'	11/13/2013	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	3.07

Appendices

Appendix A
Photographs

Lea Station Landfarm - Cell A

Lea Station Landfarm - Cell B

Lea Station Landfarm - Cell C

Lea Station Landfarm - Cell D

Lea Station Landfarm - Cell E

Lea Station Landfarm - Cell F

Lea Station Landfarm - Cell G

Lea Station Landfarm - Cell H

Appendix B
Laboratory Analytical Reports