2R - 0053

REPORTS

DATE:

2006

2R-0053
Report
2006

2007 FEB 5 PM 12 00

PLAINS
ALL AMERICAN

30 January 2007

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

Re: Plains All American – Annual Monitoring Report
1 Site in Lea County, New Mexico

Dear Mr. Stone:

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

Ballard Grayburg 5" Site Section 10, Township 18 South, Range 29 East, Eddy County

Also included in the enclosed Annual Monitoring report is a description of the soil remediation activities conducted, subsequent closure, a request to conduct semi-annual groundwater sampling of monitoring well MW-2 and continued quarterly sampling of monitoring well MW-3 based on laboratory results from the annual monitoring period.

Basin prepared this document and has vouched for its accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the document and interviewed Basin in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Report for the above facility.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

Enclosure
cc: Mr. Mike Bratcher, NMOCD Artesia District II

Basin Environmental Service Technologies, LLC

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429

Effective Solutions

2006
ANNUAL MONITORING REPORT

BALLARD GRAYBURG 5" SITE
SW ¼ SW ¼ SECTION 10, TOWNSHIP 18 SOUTH, RANGE 29 EAST
LATITUDE 32°, 45', 27.1" NORTH, LONGITUDE 104°, 04', 12.0" WEST
EDDY COUNTY, NEW MEXICO
PLAINS SRS NUMBER: 2004-00192
NMOCD REF: 2R-0053

PREPARED FOR:

PLAINS MARKETING, L.P.
333 CLAY STEET, SUITE 1600
HOUSTON, TEXAS 77002

PREPARED BY:

BASIN ENVIRONMENTAL SERVICE TECHNOLGIES, LLC
2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260

January 2007

Ken Dutton
Project Manager

TABLE OF CONTENTS

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P., (Plains), prepared this annual report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2006 only. Additional site activities and remedial work is summarized in several letters and reports previously submitted to the NMOCD. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during the four (4) consecutive quarters of 2006 at the request of the NMOCD to assess the potential for impact to the groundwater from dissolved phase constituents. The groundwater monitoring event consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separated hydrocarbons (PSH) atop the water column, and purging and sampling of each well exhibiting sufficient recharge. Monitoring or recovery wells containing a thickness of PSH greater than 0.01 foot were not sampled.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is SW¼ SW¼ Section 10, Township 18 South, Range 29 East. The site latitude is 32°, 45', 27.1" North and the site longitude is 104°, 04', 12.0" West. On 02 September 2004, Allstate Environmental Services responded to the pipeline release to repair the pipeline and excavate the impacted soil. At the request of Plains, Basin performed subsequent remediation of the site. The Ballard Grayburg 5" Pipeline was subsequently de-oiled, cold cut and capped. Approximately 80 barrels of crude oil were released from the Plains pipeline and 0 barrels were recovered. The site is characterized by a right-of-way for the pipeline in a pasture utilized for cattle grazing. The initial visibly surface stained area included the release point covering an area approximately 22 feet long by 23 feet wide. Excavation activities during the emergency response and subsequent remediation of the site covered an area approximately 225 feet long by 60 feet wide and ranged from approximately 10 to 20 feet below ground surface (bgs), respectively. Excavated soil was placed on a 6-mil poly-liner for future remedial action.

A Preliminary Site Investigation Report (PSIR) and Remediation Plan, dated 14 November 2004 was submitted and approved by NMOCD, Artesia District II and the U. S. Department of the Interior, Bureau of Land Management (BLM), Carlsbad Office. The approved plan included excavating to approximately 12 to 15 feet bgs, collecting confirmation soil samples, installing a 40-mil poly liner, blending of the clean segregated overburden and impacted soil on-site and backfilling the excavation with the blended soil. In March 2006, an electronic revision was submitted and subsequently approved by NMOCD (Santa Fe) and BLM. The approved revision included excavating to a depth of approximately 18 to 20 feet bgs, installation of a 40-ml poly liner at the floor of the excavation, blending the excavated soil with clean segregated overburden, backfilling the excavation with blended stockpiled material on-site, collecting soil

samples at 500 cubic yard intervals ensuring TPH constituent concentrations were below 1000 mg/kg and reseed with approved BLM grass seed.

Based on initial delineation of the release site, two (2) groundwater monitoring wells were installed to evaluate the quality of groundwater and one (1) recovery well due to the presents of PSH from the soil samples during drilling activities. During the installation of the two (2) groundwater monitoring wells (October 2004), there were no visual signs of PSH and laboratory results of the selected soil samples did not indicate BTEX and TPH constituent concentrations above laboratory method detection limits or were significantly below NMOCD limits for the soil samples submitted to the laboratory. Two attempts to install an up gradient monitoring well proved futile due to drilling into subsurface limestone caverns. A hydrocarbon absorbent sock was installed in the recovery well to absorb the limited amount of crude oil on the groundwater and was replaced on a monthly basis. During excavation of the release area, recovery well RW-1 collapsed and was rendered unusable. The approved PSIR electronic revision stipulated that an additional recovery well north-northwest of the plugged and abandoned recovery well RW-1 be attempted once backfilling of the excavation was completed. In July 2006, an attempt to install the recovery well was initiated, however, as mentioned above, subsurface limestone caverns were encountered which negated the recovery well installation.

Currently, there are two (2) groundwater monitoring wells, MW-2 and MW-3 which are down gradient, on site.

FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on 30 March 2006, 14 June 2006, 20 September 2006 and 14 December 2006. During the quarterly sampling events, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer mounted polystyrene tank and disposed at an approved disposal in Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the quarterly monitoring events, are depicted on Figures 2A through 2D. The groundwater elevation data are provided as Table 1. Research of the New Mexico State Engineers Office reflected a general south to southwest groundwater gradient in this area of Eddy County, New Mexico. The depth to groundwater, as measured from the top of the well casing, was 186.58, from the 14 December 2006 monitoring event.

A measurable thickness of PSH was detected in recovery well RW-1 during the first (1^{st}) quarter monitoring event. On 11 May 2006, recovery well RW-1 was plugged and abandoned as approved by NMOCD Santa Fe. A maximum thickness of 0.01 foot was measured and is shown on Table 1. Approximately one-half gallon of PSH was recovered from the site during the reporting period.

LABORATORY RESULTS

Groundwater samples were collected from the groundwater monitoring wells (MW-2 and MW-3) during the quarterly monitoring events and were delivered to Environmental Laboratory of Texas, Odessa, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. A summary of BTEX constituent concentrations for 2006 is presented in Table 2 and the laboratory reports are provided as Appendix A. Recovery well RW-1 was not sampled due to the presence of measurable PSH.

Laboratory results for the two (2) site groundwater samples, obtained during the four (4) sampling periods, indicated that benzene and total BTEX constituent concentrations for monitoring well MW-2 were at or below applicable NMOCD limits for the four (4) monitoring events. Laboratory results indicated that benzene and total BTEX constituent concentrations for monitoring well MW-3 were below NMOCD limits for three (3) of the monitoring events with the fourth event on 14 December 2006 slightly exceeding NMOCD benzene limits at 0.011mg/L. Laboratory results are depicted on Figures 3A through 3D.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

Based on the depth of the soil impact at this site, the NMOCD requested four (4) quarterly groundwater sampling events to be conducted at this site. This report presents the results of monitoring activities for the monitoring period. Currently, there are two (2) groundwater monitoring wells (MW-2 and MW-3) on-site. Based on the limited data, groundwater elevations at the site are relatively similar and research of the New Mexico State Engineers Office reflected a general groundwater gradient to the south-southwest.

Laboratory results for the two (2) site groundwater samples, obtained during the four (4) sampling periods, indicated that benzene and total BTEX constituent concentrations for monitoring well MW-2 were at or below applicable NMOCD limits for the four (4) monitoring events. Laboratory results indicated that benzene and total BTEX constituent concentrations for monitoring well MW-3 were below NMOCD limits for three (3) of the monitoring events with the fourth event on 14 December 2006 slightly exceeding NMOCD benzene limits.

ANTICIPATED ACTIONS

The NMOCD approved soil remediation activities at the Ballard Grayburg 5" site were completed and a site closure was submitted and approved by NMOCD Santa Fe. Based on the laboratory results from eight (8) consecutive sampling events which indicated monitoring well MW-2 exhibited BTEX concentrations at or significantly below NMOCD limits, Plains requests semi-annual groundwater monitoring for MW-2 for 2007. Continued quarterly groundwater monitoring for MW-3 and annual reporting will be conducted in 2007.

LIMITATIONS

Basin has prepared this Annual Monitoring Report 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 has relied on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements 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 also 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. 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 and/or Plains.

DISTRIBUTION

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New Mexico Oil Conservation Division, District II
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Artesia, New Mexico 88210
mike.bratcher@state.nm.us

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

Copy Number: 1

FIGURES

FIGURE 1

SITE LOCATION MAP

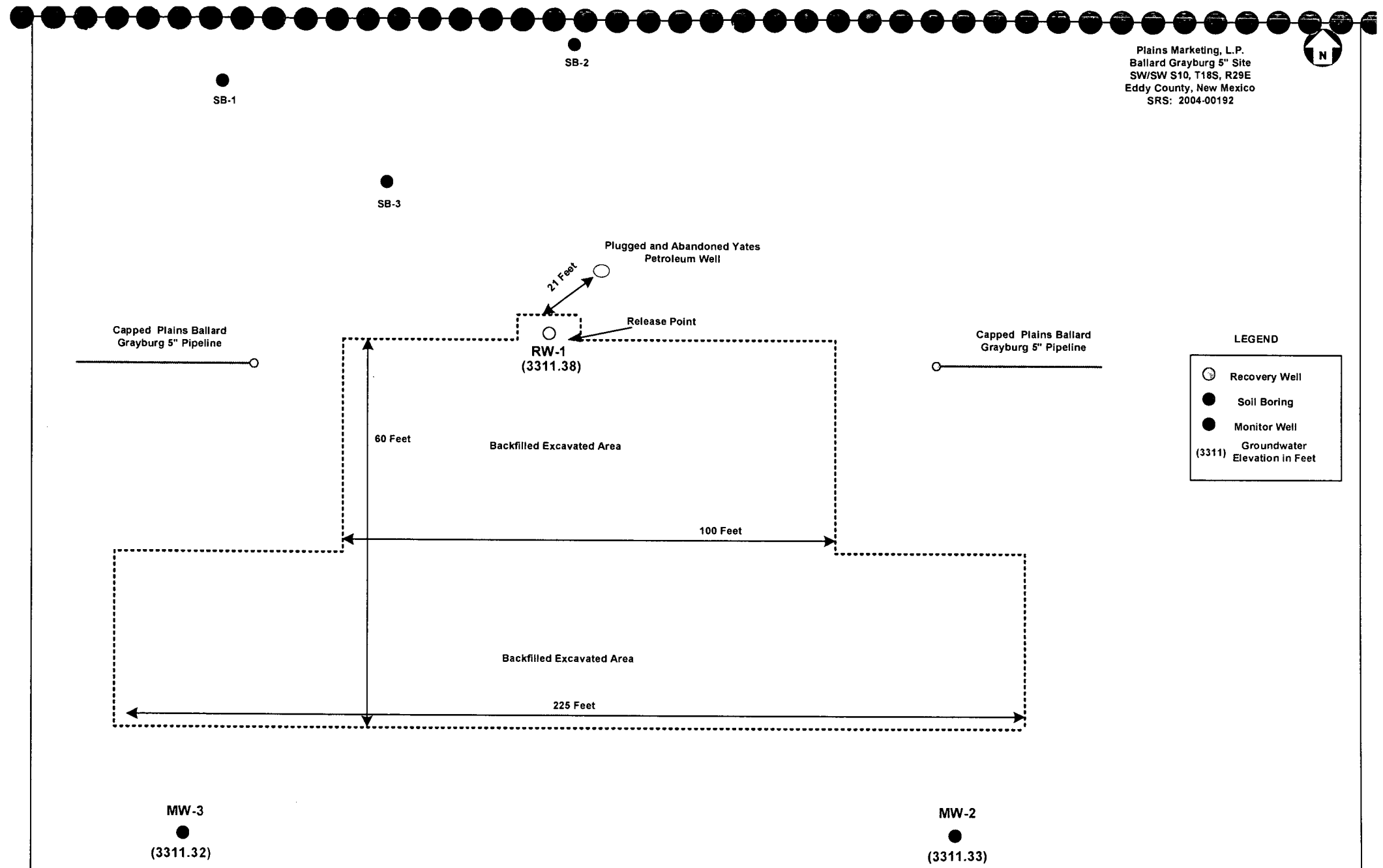
Name: RED LAKE SE
Date: 1/30/2007
Scale: 1 inch equals 2000 feet

Location: 032° 45' 27.39" N 104° 04' 14.57" W NAD 27
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
Ballard Grayburg 5" Site

FIGURE 2A

INFERRED GROUNDWATER ELEVATION MAP – 30 MARCH 2006

Plains Marketing, L.P.
Ballard Grayburg 5" Site
SW/SW S10, T18S, R29E
Eddy County, New Mexico
SRS: 2004-00192



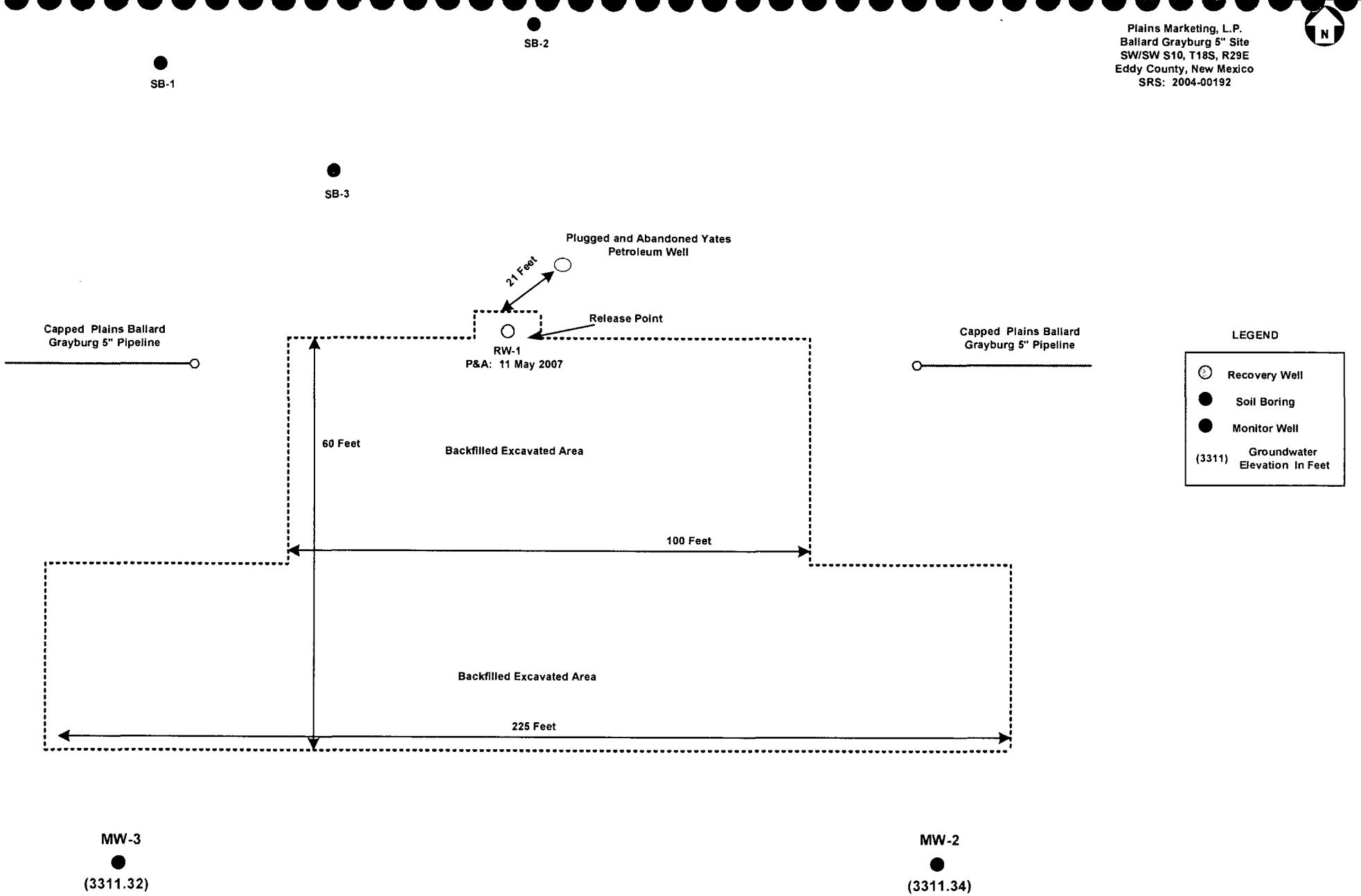
DESCRIPTION

Figure 2A
Inferred Groundwater Elevation Map
30 March 2006

FIGURE 2B

INFERRED GROUNDWATER ELEVATION MAP – 14 JUNE 2006

Plains Marketing, L.P.
Ballard Grayburg 5" Site
SW/SW S10, T18S, R29E
Eddy County, New Mexico
SRS: 2004-00192



DESCRIPTION

Figure 2B
Inferred Groundwater Elevation Map
14 June 2006

FIGURE 2C

INFERRED GROUNDWATER ELEVATION MAP – 20 SEPTEMBER 2006

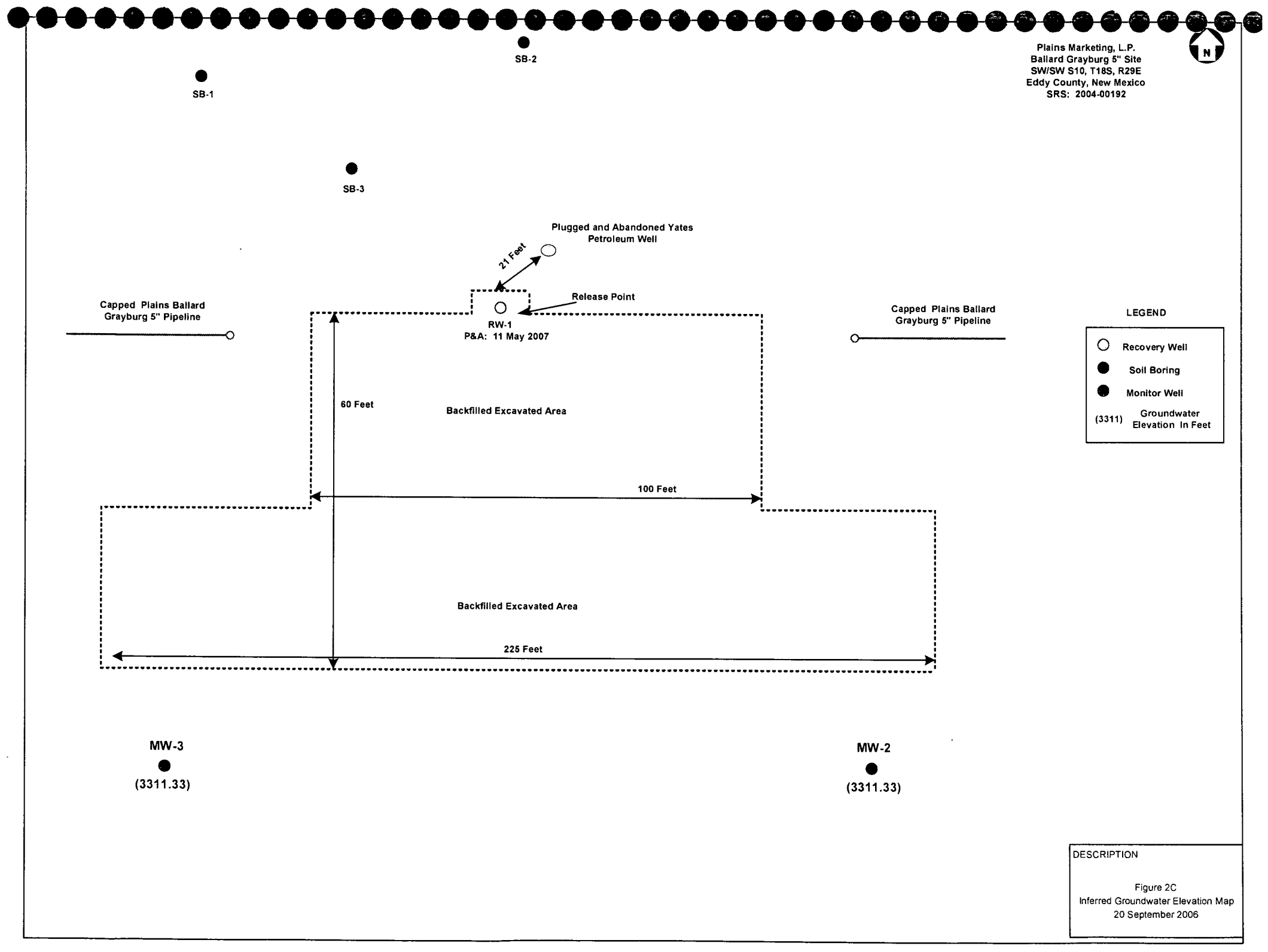
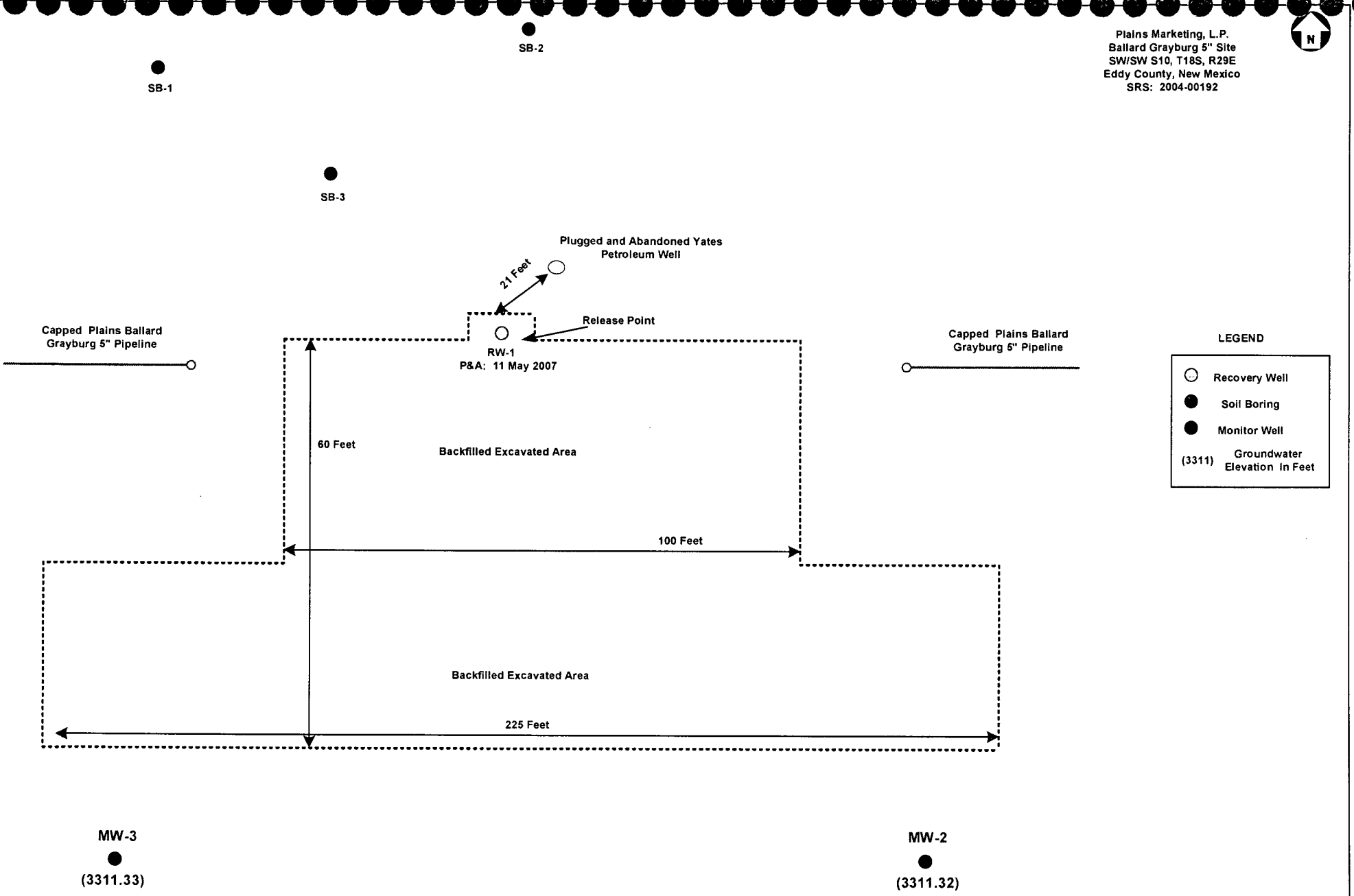

Plains Marketing, L.P.
Ballard Grayburg 5" Site
SW/SW S10, T18S, R29E
Eddy County, New Mexico
SRS: 2004-00192
N
SB-1
SB-2
SB-3
Plugged and Abandoned Yates
Petroleum Well
21 Feet
Release Point
RW-1
P&A: 11 May 2007
Capped Plains Ballard
Grayburg 5" Pipeline
Capped Plains Ballard
Grayburg 5" Pipeline
60 Feet
Backfilled Excavated Area
100 Feet
Backfilled Excavated Area
225 Feet
MW-3
(3311.33)
MW-2
(3311.33)
LEGEND
Recovery Well
Soil Boring
Monitor Well
(3311) Groundwater Elevation In Feet
DESCRIPTION
Figure 2C
Inferred Groundwater Elevation Map
20 September 2006

FIGURE 2D

INFERRED GROUNDWATER ELEVATION MAP – 14 DECEMBER 2006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Recovery Well
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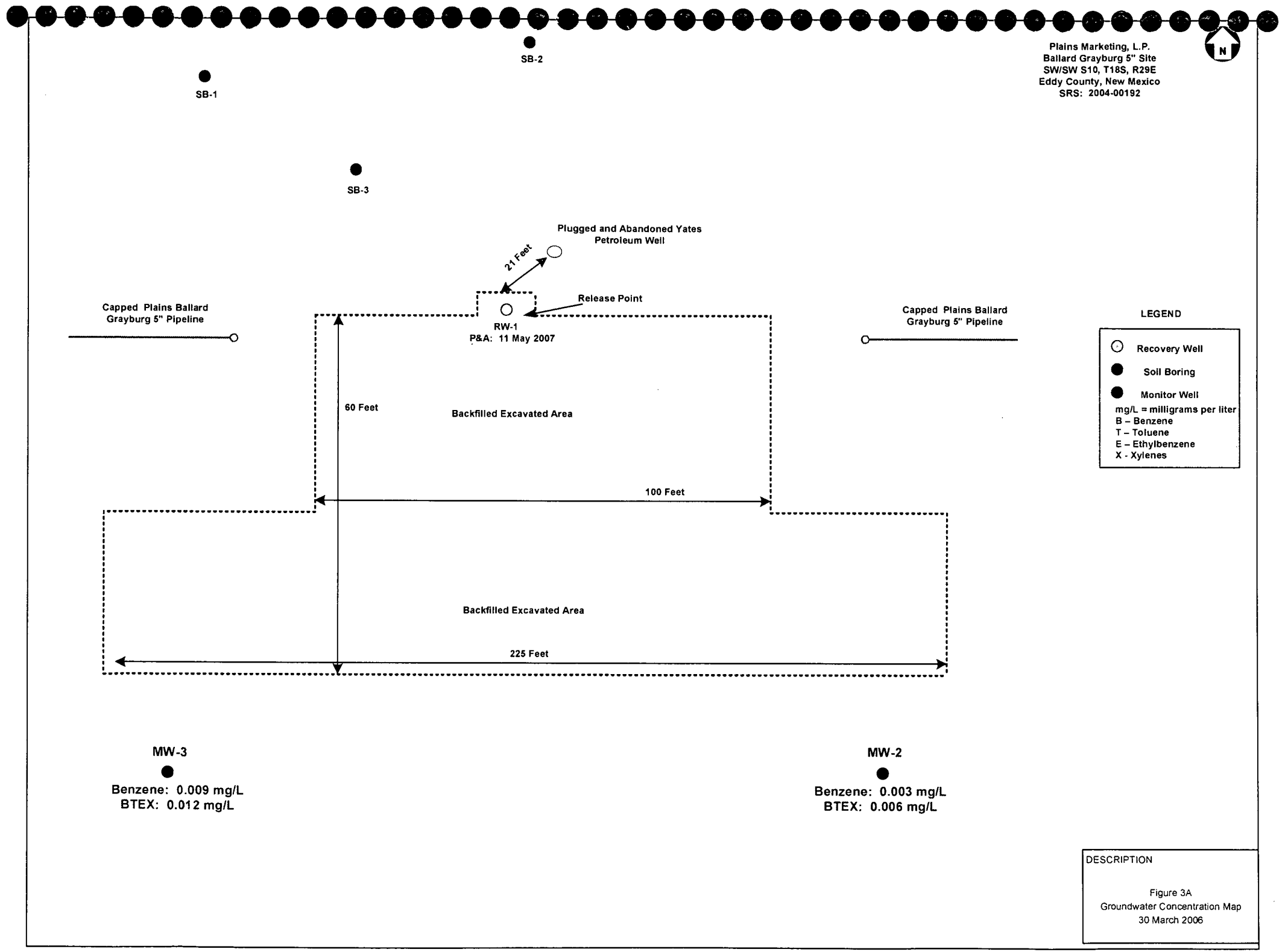
Monitor Well
(3311) Groundwater Elevation In Feet
MW-3
(3311.33)
MW-2
(3311.32)
DESCRIPTION
Figure 2D
Inferred Groundwater Elevation Map
14 December 2006

FIGURE 3A

GROUNDWATER CONCENTRATION MAP – 30 MARCH 2006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Backfilled Excavated Area
100 Feet
Backfilled Excavated Area
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LEGEND
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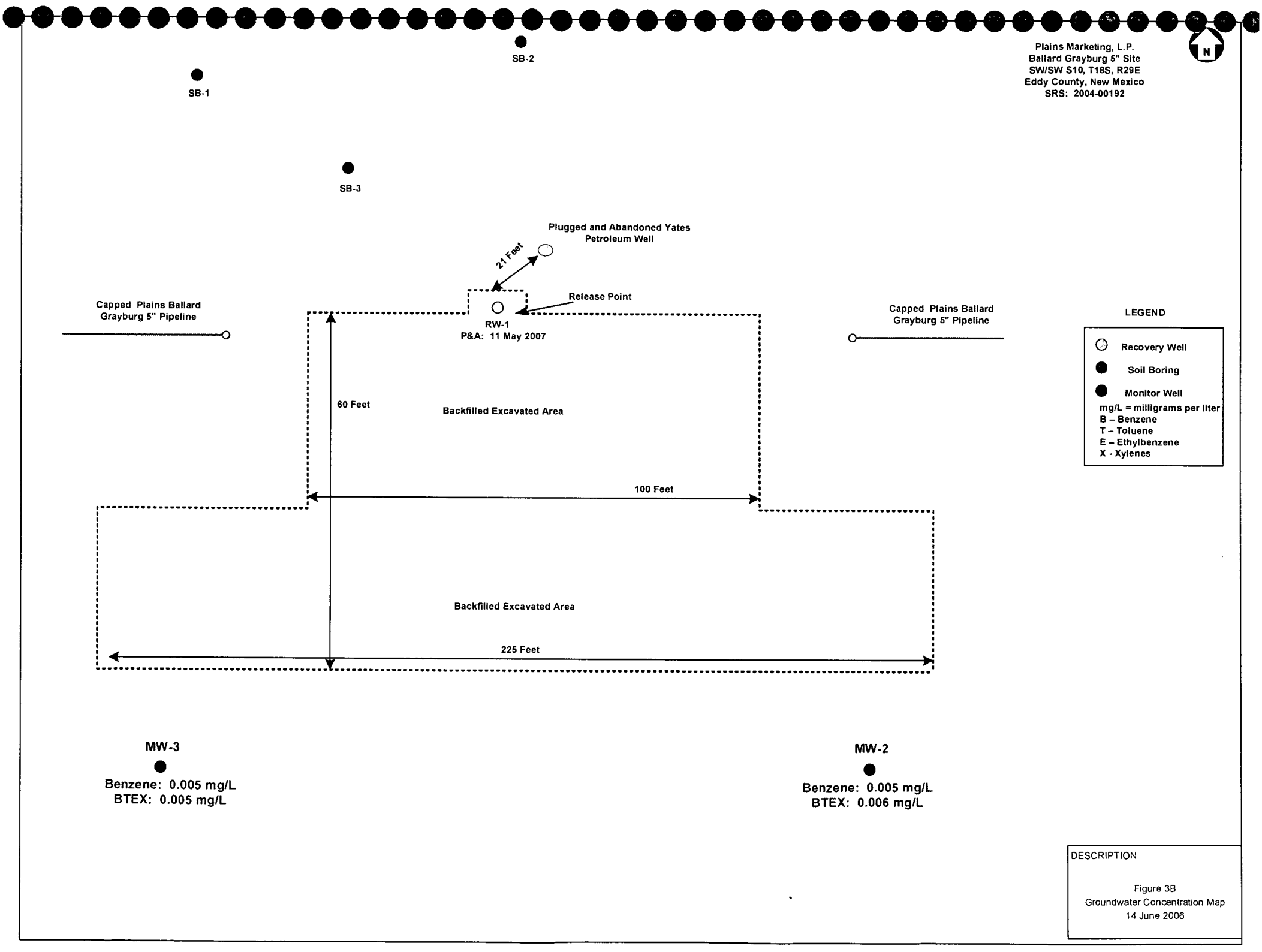
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
MW-3
Benzene: 0.009 mg/L
BTEX: 0.012 mg/L
MW-2
Benzene: 0.003 mg/L
BTEX: 0.006 mg/L
DESCRIPTION
Figure 3A
Groundwater Concentration Map
30 March 2006

FIGURE 3B

GROUNDWATER CONCENTRATION MAP – 14 JUNE 2006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Eddy County, New Mexico
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Grayburg 5" Pipeline
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Backfilled Excavated Area
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mg/L = milligrams per liter
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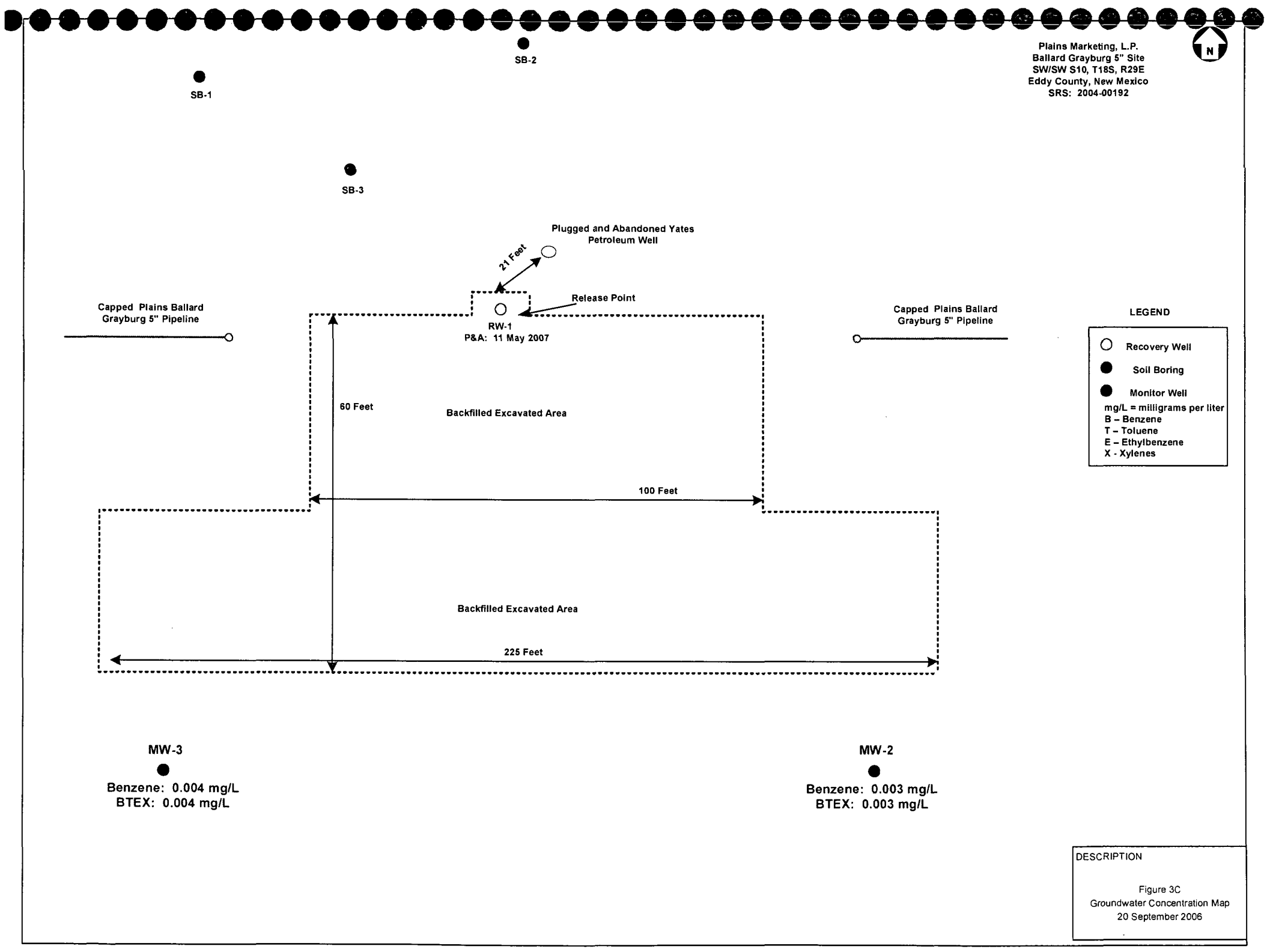
X - Xylenes
MW-3
Benzene: 0.005 mg/L
BTEX: 0.005 mg/L
MW-2
Benzene: 0.005 mg/L
BTEX: 0.006 mg/L
DESCRIPTION
Figure 3B
Groundwater Concentration Map
14 June 2006

FIGURE 3C

GROUNDWATER CONCENTRATION MAP – 20 SEPTEMBER 2006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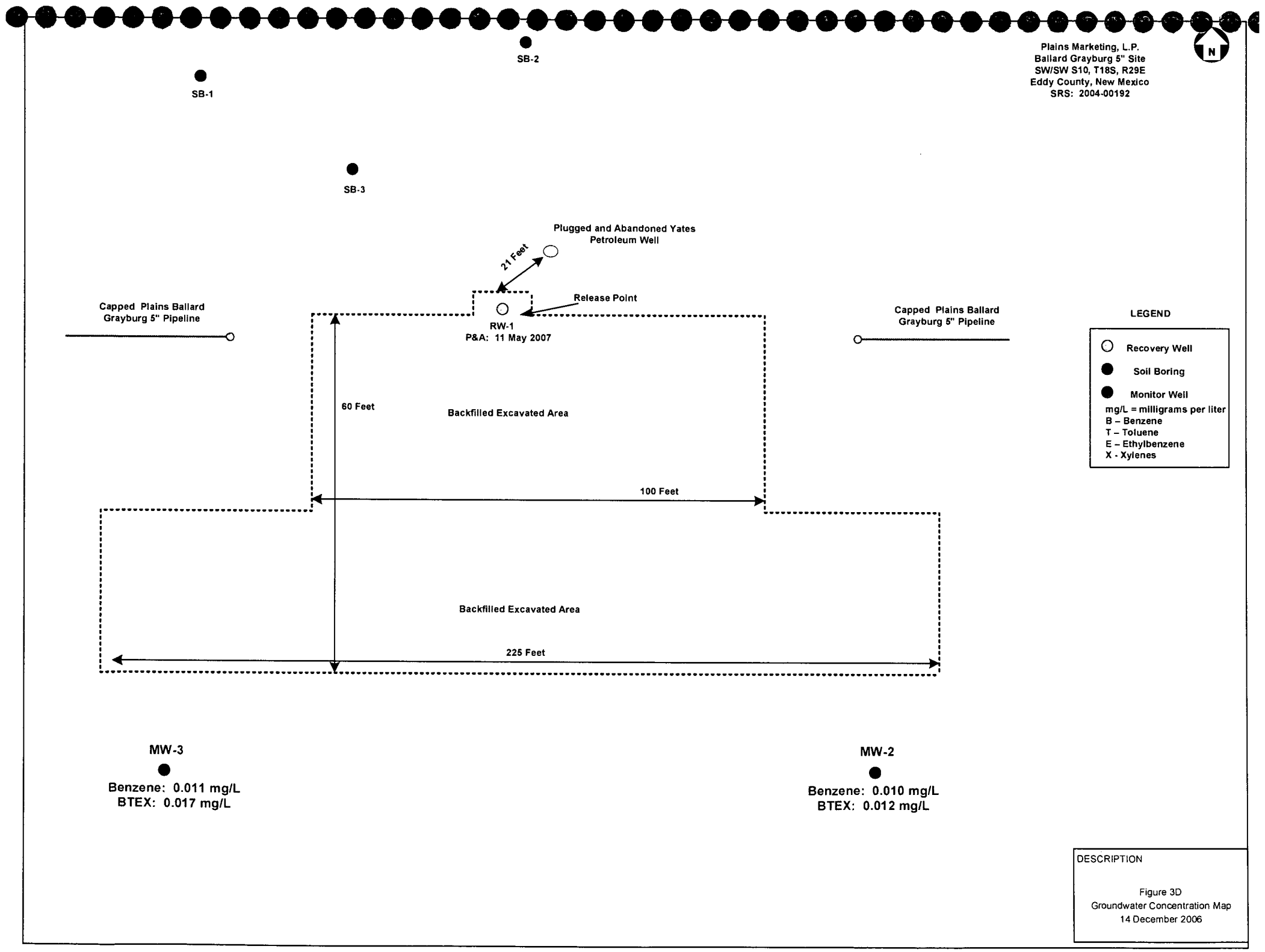
MW-3
Benzene: 0.004 mg/L
BTEX: 0.004 mg/L
MW-2
Benzene: 0.003 mg/L
BTEX: 0.003 mg/L
DESCRIPTION
Figure 3C
Groundwater Concentration Map
20 September 2006

FIGURE 3D

GROUNDWATER CONCENTRATION MAP – 14 DECEMBER 2006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Backfilled Excavated Area
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Soil Boring
Monitor Well
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
MW-3
Benzene: 0.011 mg/L
BTEX: 0.017 mg/L
MW-2
Benzene: 0.010 mg/L
BTEX: 0.012 mg/L
DESCRIPTION
Figure 3D
Groundwater Concentration Map
14 December 2006

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
BALLARD-GRAYBURG 5"
EDDY COUNTY, NEW MEXICO
PLAINS SRS NO. 2004-00192

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	11/10/04	3,497.90	-	186.58	0.00	3,311.32
	03/29/05	3,497.90	-	186.58	0.00	3,311.32
	05/26/05	3,497.90	-	186.58	0.00	3,311.32
	08/11/05	3,497.90	-	186.57	0.00	3,311.33
	12/27/05	3,497.90	-	186.58	0.00	3,311.32
	03/30/06	3,497.90	-	186.57	0.00	3,311.33
	06/14/06	3,497.90	-	186.56	0.00	3,311.34
	09/20/06	3,497.90	-	186.57	0.00	3,311.33
	12/14/06	3,497.90	-	186.58	0.00	3,311.32
MW - 3	11/10/04	3,497.91	-	186.59	0.00	3,311.32
	03/29/05	3,497.91	-	186.59	0.00	3,311.32
	05/26/05	3,497.91	-	186.58	0.00	3,311.33
	08/11/05	3,497.91	-	186.58	0.00	3,311.33
	12/27/05	3,497.91	-	186.59	0.00	3,311.32
	03/30/06	3,497.91	-	186.59	0.00	3,311.32
	06/14/06	3,497.91	-	186.59	0.00	3,311.32
	09/20/06	3,497.91	-	186.58	0.00	3,311.33
	12/14/06	3,497.91	-	186.58	0.00	3,311.33

TABLE 1

GROUNDWATER ELEVATION DATA (CONT)

PLAINS MARKETING, L.P.
BALLARD-GRAYBURG 5"
EDDY COUNTY, NEW MEXICO
PLAINS SRS NO. 2004-00192

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW-1	11/10/04	3,497.94	186.56	186.60	0.04	3,311.37
	03/29/05	3,497.94	186.56	186.60	0.04	3,311.37
	05/26/05	3,497.94	186.57	186.60	0.03	3,311.37
	08/11/05	3,497.94	186.57	186.60	0.03	3,311.37
	12/27/05	3,497.94	186.56	186.58	0.02	3,311.38
	03/30/06	3,497.94	186.56	186.57	0.01	3,311.38
NOTE: RW-1 Plugged & Abandoned 11 May 2006						

TABLE 2

CONCENTRATIONS OF BENZENE AND BTEX IN GROUNDWATER

TABLE 2

CONCENTRATIONS OF BENZENE AND BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
BALLARD GRAYBURG 5"
EDDY COUNTY, NEW MEXICO
PLAINS SRS NO. 2004-00192

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030					Method: 160.1
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TDS (mg/L)
MW-2	12/04/04	<0.001	<0.001	<0.001	<0.001	<0.001	7730
	03/29/05	0.006	0.001	<0.001	<0.001	<0.001	
	05/26/05	0.002	0.001	<0.001	<0.001	<0.001	
	08/11/05	0.001	0.001	<0.001	<0.001	<0.001	
	12/27/05	0.008	0.003	<0.001	<0.001	<0.001	
	03/30/06	0.003	0.003	<0.001	<0.001	<0.001	
	06/14/06	0.005	0.001	<0.001	<0.001	<0.001	
	09/20/06	0.003	<0.001	<0.001	<0.001	<0.001	
	12/14/06	0.010	0.002	<0.001	0.001	<0.001	
MW-3	12/04/04	<0.001	<0.001	<0.001	<0.001	<0.001	8530
	03/29/05	0.054	0.004	<0.001	<0.001	<0.001	
	05/26/05	0.014	0.003	<0.001	<0.001	<0.001	
	08/11/05	0.002	<0.001	<0.001	<0.001	<0.001	
	12/27/05	0.024	0.002	<0.001	<0.001	<0.001	
	03/30/06	0.009	0.003	<0.001	<0.001	<0.001	
	06/14/06	0.005	<0.001	<0.001	<0.001	<0.001	
	09/20/06	0.004	<0.001	<0.001	<0.001	<0.001	
	12/14/06	0.011	0.003	<0.001	0.003	<0.001	
NMOCD CRITERIA		0.01	0.75	0.75	TOTAL XYLENES 0.62		

APPENDICES

APPENDIX A

LABORATORY REPORTS

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Ballard- Grayburg 5inch

Project Number: EMS: 2004-00192

Location: Eddy County, NM

Lab Order Number: 6L15011

Report Date: 12/22/06

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

Project: Ballard- Grayburg 5inch
Project Number: EMS: 2004-00192
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	6L15011-01	Water	12/14/06 13:55	12-15-2006 14:45
MW-3	6L15011-02	Water	12/14/06 11:25	12-15-2006 14:45

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6L15011-01) Water									
Benzene	**0.0108**	0.00100	mg/L	1	EL62008	12/20/06	12/21/06	EPA 8021B	
Toluene	**0.00179**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000387]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00138**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000346]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-3 (6L15011-02) Water									
Benzene	**0.0117**	0.00100	mg/L	1	EL62008	12/20/06	12/21/06	EPA 8021B	
Toluene	**0.00286**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000845]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00277**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000391]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL62008 - EPA 5030C (GC)										
Blank (EL62008-BLK1)				Prepared & Analyzed: 12/20/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*ug/l*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		*"*	*40.0*		*81.5*	*80-120*			
LCS (EL62008-BS1)				Prepared & Analyzed: 12/20/06						
Benzene	0.0468	0.00100	mg/L	0.0500		93.6	80-120			
Toluene	0.0469	0.00100	"	0.0500		93.8	80-120			
Ethylbenzene	0.0500	0.00100	"	0.0500		100	80-120			
Xylene (p/m)	0.0893	0.00100	"	0.100		89.3	80-120			
Xylene (o)	0.0431	0.00100	"	0.0500		86.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.7*		*ug/l*	*40.0*		*86.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.0*		*"*	*40.0*		*100*	*80-120*			
Calibration Check (EL62008-CCV1)				Prepared & Analyzed: 12/20/06						
Benzene	56.0		ug/l	50.0		112	80-120			
Toluene	48.1		"	50.0		96.2	80-120			
Ethylbenzene	42.2		"	50.0		84.4	80-120			
Xylene (p/m)	81.5		"	100		81.5	80-120			
Xylene (o)	41.4		"	50.0		82.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.4*		*"*	*40.0*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.9*		*"*	*40.0*		*84.8*	*80-120*			
Matrix Spike (EL62008-MS1)	**Source: 6L15012-01**			Prepared: 12/20/06 Analyzed: 12/21/06						
Benzene	0.0482	0.00100	mg/L	0.0500	0.00450	87.4	80-120			
Toluene	0.0434	0.00100	"	0.0500	0.000269	86.3	80-120			
Ethylbenzene	0.0438	0.00100	"	0.0500	ND	87.6	80-120			
Xylene (p/m)	0.0882	0.00100	"	0.100	0.000759	87.4	80-120			
Xylene (o)	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.0*		*ug/l*	*40.0*		*80.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.7*		*"*	*40.0*		*86.8*	*80-120*			

Plains All American EH & S
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Midland TX, 79706-4476

Project: Ballard- Grayburg 5inch
Project Number: EMS: 2004-00192
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL62008 - EPA 5030C (GC)										
Matrix Spike Dup (EL62008-MSD1)	**Source: 6L15012-01**			Prepared: 12/20/06 Analyzed: 12/21/06						
Benzene	0.0455	0.00100	mg/L	0.0500	0.00450	82.0	80-120	6.38	20	
Toluene	0.0421	0.00100	"	0.0500	0.000269	83.7	80-120	3.06	20	
Ethylbenzene	0.0431	0.00100	"	0.0500	ND	86.2	80-120	1.61	20	
Xylene (p/m)	0.0853	0.00100	"	0.100	0.000759	84.5	80-120	3.37	20	
Xylene (o)	0.0425	0.00100	"	0.0500	ND	85.0	80-120	1.63	20	
Surrogate: a,a,a-Trifluorotoluene	*34.1*		*ug/l*	*40.0*		*85.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.9*		*"*	*40.0*		*87.2*	*80-120*			

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Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 12/22/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01

Project Name: BALLARD-GRAYBURG 5" GATHERING

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2004-00192

Company Address: P. O. Box 301

Project Loc: Eddy County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton e-mail: kad@basinenv.com

(lab use only)
ORDER #: 6L-1501

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Solid	NP = Non-Potable Specify Oth	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-2			14-Dec-06	1355		2	X		X						GW											X				X
02	MW-3			14-Dec-06	1125		2	X		X						GW											X				X

Analyze For: TCLP: TOTAL: X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	14 DEC 06	1545	Linda Blackwood	12/14/06	3:45
Relinquished by:	Date	Time	Received by:	Date	Time
Linda Blackwood	12/15/06	2:45	Received by ELOT: Carrie Lacy	12/15/06	2:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep.?	Y	N
by Courier? UPS DHL FedEx Lone Star		
Temperature Upon Receipt: 5.0 °C		

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 12/15/00 2:45

Lab ID #: 6L1501

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	5.0 °C	
#2	Shipping container in good condition?	~~Yes~~	No		
#3	Custody Seals intact on shipping container/ cooler?	~~Yes~~	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	~~Yes~~	No	Not Present	
#5	Chain of Custody present?	~~Yes~~	No		
#6	Sample instructions complete of Chain of Custody?	~~Yes~~	No		
#7	Chain of Custody signed when relinquished/ received?	~~Yes~~	No		
#8	Chain of Custody agrees with sample label(s)?	~~Yes~~	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	~~Yes~~	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
#11	Containers supplied by ELOT?	~~Yes~~	No		
#12	Samples in proper container/ bottle?	~~Yes~~	No	See Below	
#13	Samples properly preserved?	~~Yes~~	No	See Below	
#14	Sample bottles intact?	~~Yes~~	No		
#15	Preservations documented on Chain of Custody?	~~Yes~~	No		
#16	Containers documented on Chain of Custody?	~~Yes~~	No		
#17	Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
#18	All samples received within sufficient hold time?	~~Yes~~	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	~~Not Applicable~~	
#20	VOC samples have zero headspace?	~~Yes~~	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Ballard- Grayburg 5inch

Project Number: EMS: 2004-00192

Location: Eddy County, NM

Lab Order Number: 6I22011

Report Date: 09/29/06

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

Project: Ballard- Grayburg 5inch
Project Number: EMS: 2004-00192
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	6I22011-01	Water	09/20/06 15:48	09-22-2006 11:30
MW-3	6I22011-02	Water	09/20/06 12:14	09-22-2006 11:30

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6I22011-01) Water									
Benzene	**0.00339**	0.00100	mg/L	1	EI62607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	
MW-3 (6I22011-02) Water									
Benzene	**0.00458**	0.00100	mg/L	1	EI62607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		"	"	"	"	

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Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI62607 - EPA 5030C (GC)										
Blank (EI62607-BLK1)				Prepared & Analyzed: 09/26/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*42.5*		*ug/l*	*40.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.9*		*"*	*40.0*		*117*	*80-120*			
LCS (EI62607-BS1)				Prepared & Analyzed: 09/26/06						
Benzene	0.0556	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0472	0.00100	"	0.0500		94.4	80-120			
Ethylbenzene	0.0422	0.00100	"	0.0500		84.4	80-120			
Xylene (p/m)	0.0914	0.00100	"	0.100		91.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.8*		*ug/l*	*40.0*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.7*		*"*	*40.0*		*114*	*80-120*			
Calibration Check (EI62607-CCV1)				Prepared: 09/26/06 Analyzed: 09/27/06						
Benzene	54.2		ug/l	50.0		108	80-120			
Toluene	47.3		"	50.0		94.6	80-120			
Ethylbenzene	46.3		"	50.0		92.6	80-120			
Xylene (p/m)	90.9		"	100		90.9	80-120			
Xylene (o)	44.3		"	50.0		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.1*		*"*	*40.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.0*		*"*	*40.0*		*112*	*80-120*			
Matrix Spike (EI62607-MS1)	**Source: 6I22006-04**			Prepared: 09/26/06 Analyzed: 09/27/06						
Benzene	0.0455	0.00100	mg/L	0.0500	ND	91.0	80-120			
Toluene	0.0405	0.00100	"	0.0500	ND	81.0	80-120			
Ethylbenzene	0.0466	0.00100	"	0.0500	ND	93.2	80-120			
Xylene (p/m)	0.0805	0.00100	"	0.100	ND	80.5	80-120			
Xylene (o)	0.0412	0.00100	"	0.0500	ND	82.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.3*		*ug/l*	*40.0*		*83.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.6*		*"*	*40.0*		*104*	*80-120*			

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Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI62607 - EPA 5030C (GC)										
Matrix Spike Dup (EI62607-MSD1)	**Source: 6I22006-04**			Prepared: 09/26/06 Analyzed: 09/27/06						
Benzene	0.0528	0.00100	mg/L	0.0500	ND	106	80-120	15.2	20	
Toluene	0.0483	0.00100	"	0.0500	ND	96.6	80-120	17.6	20	
Ethylbenzene	0.0453	0.00100	"	0.0500	ND	90.6	80-120	2.83	20	
Xylene (p/m)	0.0938	0.00100	"	0.100	ND	93.8	80-120	15.3	20	
Xylene (o)	0.0454	0.00100	"	0.0500	ND	90.8	80-120	9.70	20	
Surrogate: a,a,a-Trifluorotoluene	*32.2*		*ug/l*	*40.0*		*80.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.4*		*"*	*40.0*		*91.0*	*80-120*			

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Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 9/29/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-2124 Fax No: (505) 396-1429

Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

Project Name: Ballard-Grayburg 5"

Project #: 2004-00192

Project Loc: Eddy County, NM

PO #: PAA/C. Reynolds

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 17011

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl VSN	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides (EPA 300.0)	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-01	MW-2	N/A	N/A	20-Sep-06	1548	2	X		X						GW							X						X
-02	MW-3	N/A	N/A	20-Sep-06	1214	2	X		X						GW							X						X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	21 SEP 06	1645	Linda Blackwood	Sept 21, 06	1645
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Linda Blackwood	9/22/06	11:39	Received by ELOT: Carr Kelly	9/22/06	11:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 9/22/10 11:30

Lab ID #: 10922011

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Ballard- Grayburg 5inch

Project Number: EMS: 2004-00192

Location: Eddy Co., NM

Lab Order Number: 6F15015

Report Date: 06/23/06

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

Project: Ballard- Grayburg 5inch
Project Number: EMS: 2004-00192
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	6F15015-01	Water	06/14/06 11:29	06/15/06 12:45
MW-3	6F15015-02	Water	06/14/06 12:44	06/15/06 12:45

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6F15015-01) Water									
Benzene	**0.00507**	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	**0.00161**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-3 (6F15015-02) Water									
Benzene	**0.00502**	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	**J [0.000551]**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Ballard- Grayburg 5inch
Project Number: EMS: 2004-00192
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF62102 - EPA 5030C (GC)										
Blank (EF62102-BLK1)				Prepared & Analyzed: 06/21/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*40.8*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.0*		*"*	*40.0*		*80.0*	*80-120*			
LCS (EF62102-BS1)				Prepared & Analyzed: 06/21/06						
Benzene	0.0523	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0568	0.00100	"	0.0500		114	80-120			
Ethylbenzene	0.0548	0.00100	"	0.0500		110	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0582	0.00100	"	0.0500		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*42.8*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.1*		*"*	*40.0*		*103*	*80-120*			
Calibration Check (EF62102-CCV1)				Prepared & Analyzed: 06/21/06						
Benzene	58.5		ug/l	50.0		117	80-120			
Toluene	59.9		"	50.0		120	80-120			
Ethylbenzene	58.1		"	50.0		116	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.6		"	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.0*		*"*	*40.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.6*		*"*	*40.0*		*96.5*	*80-120*			
Matrix Spike (EF62102-MS1)	**Source: 6F15011-01**			Prepared & Analyzed: 06/21/06						
Benzene	0.0523	0.00100	mg/L	0.0500	ND	105	80-120			
Toluene	0.0579	0.00100	"	0.0500	ND	116	80-120			
Ethylbenzene	0.0509	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0598	0.00100	"	0.0500	ND	120	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.0*		*ug/l*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.6*		*"*	*40.0*		*109*	*80-120*			

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF62102 - EPA 5030C (GC)										
Matrix Spike Dup (EF62102-MSD1)	**Source: 6F15011-01**		Prepared & Analyzed: 06/21/06							
Benzene	0.0579	0.00100	mg/L	0.0500	ND	116	80-120	9.95	20	
Toluene	0.0576	0.00100	"	0.0500	ND	115	80-120	0.866	20	
Ethylbenzene	0.0578	0.00100	"	0.0500	ND	116	80-120	12.8	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	0.837	20	
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120	3.39	20	
Surrogate: a,a,a-Trifluorotoluene	*40.7*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.0*		"	*40.0*		*102*	*80-120*			

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Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Jeanne McMurrey Date: 6/23/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
La Tasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton
Company Name: Basin Environmental
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: 505-441-2124 Fax No: 505-396-1429
Sampler Signature:

Project Name: Ballard-Grayburg
Project #: EMS#2004-00192
Project Loc: Eddy Co., NM
PO #: PAA/ C. Reynolds

Lab I.D. 16505

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma			RUSH TAT (Pre-Schedule)	Standard TAT
-01	MW2	6/14/06	1129	2	X		X					X											X							X
-02	MW3	6/14/06	1244	2	X		X					X											X							X

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 0.5
Laboratory Comments: w/ seals & label

Relinquished by:	Date	Time	Received by:	Date	Time
	6/15/06	738	Linda K. Ballard	6/15/06	738
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Linda K. Ballard	6/15/06	12:45	Dawn Kelly	6/15/06	12:45

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

[illegible]: Plains

Time: 6/15/08 12:45

[illegible] #: 1WF150/5

[illegible]: CK

Sample Receipt Checklist

[illegible]erature of container/cooler?	Yes	No	0.5 C
[illegible]ng container/cooler in good condition?	Yes	No	
[illegible]ody Seals intact on shipping container/cooler?	Yes	No	Not present
[illegible]dy Seals intact on sample bottles?	Yes	No	Not present
[illegible] of custody present?	Yes	No	
[illegible]le Instructions complete on Chain of Custody?	Yes	No	
[illegible] of Custody signed when relinquished and received?	Yes	No	
[illegible]n of custody agrees with sample label(s)	Yes	No	
[illegible]iner labels legible and intact?	Yes	No	
[illegible]le Matrix and properties same as on chain of custody?	Yes	No	
[illegible]ples in proper container/bottle?	Yes	No	
[illegible]les properly preserved?	Yes	No	
[illegible]le bottles intact?	Yes	No	
[illegible]servations documented on Chain of Custody?	Yes	No	
[illegible]iners documented on Chain of Custody?	Yes	No	
[illegible]icient sample amount for indicated test?	Yes	No	
[illegible]mples received within sufficient hold time?	Yes	No	
[illegible] samples have zero headspace?	Yes	No	Not Apolicable

[illegible]er observations:

_____

_____

_____

Variance Documentation:

[illegible]tact Person: - _____ Date/Time: _____ Contacted by: _____

[illegible]arding:

_____

_____

_____

[illegible]rective Action Taken:

_____

_____

_____

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_____

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Ballard- Grayburg 5inch

Project Number: EMS: 2004-00192

Location: Eddy Co., NM

Lab Order Number: 6C31013

Report Date: 04/07/06

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/07/06 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	6C31013-01	Water	03/30/06 11:19	03/31/06 13:03
MW-3	6C31013-02	Water	03/30/06 14:45	03/31/06 13:03

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/07/06 14:46

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6C31013-01) Water									
Benzene	**0.00346**	0.00100	mg/L	1	ED60506	04/05/06	04/05/06	EPA 8021B	
Toluene	**0.00308**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
MW-3 (6C31013-02) Water									
Benzene	**0.00988**	0.00100	mg/L	1	ED60506	04/05/06	04/05/06	EPA 8021B	
Toluene	**0.00300**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED60506 - EPA 5030C (GC)										
Blank (ED60506-BLK1)				Prepared & Analyzed: 04/05/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*36.0*		*ug/l*	*40.0*		*90.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.8*		*"*	*40.0*		*84.5*	*80-120*			
LCS (ED60506-BS1)				Prepared & Analyzed: 04/05/06						
Benzene	0.0400	0.00100	mg/L	0.0500		80.0	80-120			
Toluene	0.0401	0.00100	"	0.0500		80.2	80-120			
Ethylbenzene	0.0542	0.00100	"	0.0500		108	80-120			
Xylene (p/m)	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (o)	0.0445	0.00100	"	0.0500		89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.8*		*ug/l*	*40.0*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.3*		*"*	*40.0*		*83.2*	*80-120*			
Calibration Check (ED60506-CCV1)				Prepared: 04/05/06 Analyzed: 04/06/06						
Benzene	40.9		ug/l	50.0		81.8	80-120			
Toluene	40.2		"	50.0		80.4	80-120			
Ethylbenzene	53.8		"	50.0		108	80-120			
Xylene (p/m)	92.5		"	100		92.5	80-120			
Xylene (o)	44.3		"	50.0		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.2*		*"*	*40.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.7*		*"*	*40.0*		*99.2*	*80-120*			
Matrix Spike (ED60506-MS1)	**Source: 6D05001-05**			Prepared: 04/05/06 Analyzed: 04/06/06						
Benzene	0.0423	0.00100	mg/L	0.0500	ND	84.6	80-120			
Toluene	0.0400	0.00100	"	0.0500	ND	80.0	80-120			
Ethylbenzene	0.0528	0.00100	"	0.0500	ND	106	80-120			
Xylene (p/m)	0.0907	0.00100	"	0.100	ND	90.7	80-120			
Xylene (o)	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.9*		*ug/l*	*40.0*		*84.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.4*		*"*	*40.0*		*86.0*	*80-120*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/07/06 14:46

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED60506 - EPA 5030C (GC)										
Matrix Spike Dup (ED60506-MSD1)	**Source: 6D05001-05**			Prepared: 04/05/06 Analyzed: 04/06/06						
Benzene	0.0418	0.00100	mg/L	0.0500	ND	83.6	80-120	1.19	20	
Toluene	0.0416	0.00100	"	0.0500	ND	83.2	80-120	3.92	20	
Ethylbenzene	0.0563	0.00100	"	0.0500	ND	113	80-120	6.39	20	
Xylene (p/m)	0.0966	0.00100	"	0.100	ND	96.6	80-120	6.30	20	
Xylene (o)	0.0459	0.00100	"	0.0500	ND	91.8	80-120	6.06	20	
Surrogate: a,a,a-Trifluorotoluene	*41.2*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.6*		*"*	*40.0*		*91.5*	*80-120*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Ballard- Grayburg 5inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS: 2004-00192	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/07/06 14:46

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 4/7/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton
Company Name: Basin Environmental
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: 505-441-2124 Fax No: 505-396-1429
Sampler Signature:

Project Name: Ballard Grayburg
Project #: EMS# 2004-00192
Project Loc: Eddy Co., NM
PO #: PAA / C. Reynolds

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TOTAL:	Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, CO_3, HCO_3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma	RUSH TAT (Pre-Schedule)	Standard TAT
6C31013				4/0 orders																								
-01	MW-2	3/30/06	1119	2	X		X					X					X						X				X	
-02	MW-3	3/30/06	1445	2	X		X					X					X						X				X	

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments: 3.0°C
Seal w/labels
Seal on cooler

Relinquished by:	Date	Time	Received by:	Date	Time
	3/31/06	1303			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jessica McMurray	03-31-06	1303

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

Client: Plains P/L

Date/Time: 03-31-06 @ 1303

Order #: 6C31013

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	3.0 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	(Yes)	No	Not present
Custody Seals intact on sample bottles?	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

APPENDIX B

RELEASE NOTIFICATION AND CORRECTIVE ACTION (FORM C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Ballard Greyburg 5" #2	Facility Type 5"Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	10	18S	29E					Eddy

Latitude 32°45'27.1" Longitude 104°04'12.0"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 80 barrels	Volume Recovered 0 barrels
Source of Release 5" Steel Pipeline	Date and Hour of Occurrence 9-2-04 @ 06:00	Date and Hour of Discovery 9-2-04 @ 08:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Van Barton	
By Whom? Ken Dutton	Date and Hour 9-2-04 @ 14:32	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* External corrosion of the 5" steel pipeline. A line clamp was installed to mitigate the release. The line is a 5-inch steel gathering line that produces approximately 95 barrels of crude per day. The pressure on the line varies from 50 to 70 psi and the gravity of the sour crude oil is 39. The sour crude has an H_2S content of 20 ppm

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 10 x 6 feet, subsequent excavation of impacted soil resulted in an area of approximately 22 x 23 x 13 feet.

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

Signature: Camille Reynolds	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@pealp.com	Conditions of Approval:	Attached ☐
Date: 9-7-04 Phone:505-441-0965		

* Attach Additional Sheets If Necessary