1R - 85

APPROVALS

YEAR(S):

2009

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, December 09, 2009 5:13 PM
To: 'Jason Henry'
Cc: Leking, Geoffrey R, EMNRD; Jeffrey P Dann; 'cdstanley@basin-consulting.com'; Camille J. Bryant
Subject: Remediation Plan (1R-1299) Termination

RE: Remediation Summary and Soil Closure Request
for the Plains Marketing, L.P. (Plains) Red Byrd Ranch Historical Release Site
Unit Letter H, Section 1, T20S, R36E, NMPM, Lea County, New Mexico
Remediation Plan (1R-1299) Termination

Dear Mr. Henry:

The New Mexico Oil Conservation Division (OCD) has received Plains' above-referenced report (dated October, 2009) to close the above-referenced site. The report, submitted in accordance with 19.15.29 NMAC (Part 29; formally, Rule 116), indicates that Plains Marketing, L.P., has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R-1299) is terminated in accordance with 19.15.29 NMAC and no further soil remediation is required for this site. However, Red Byrd #1 Release Site (which encompasses the Red Byrd Ranch Historical Release Site) is still active under Remediation Plan, 1R-0085, and groundwater monitoring, groundwater contamination delineation (if necessary), and groundwater remediation must continue at the Red Byrd #1 Release Site.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Friday, October 02, 2009 2:55 PM
To: 'Jason Henry'
Cc: Leking, Geoffrey R, EMNRD; Jeffrey P Dann
Subject: RE: Groundwater sampling schedule and monitor well P&A request Approval for Plains Red Byrd #1 site (1R-0085)

RE: Groundwater Monitoring Alternate Frequency and Plugging Request for the Plains Marketing Red Byrd #1 Release Site (1R-0085) Unit Letter H, Section 10, T20S, R36E, NMPM, Lea County, New Mexico Alternate Frequency (Semi-Annual) Approval for Specified Groundwater Monitoring Wells & Plugging Approval for Specified Groundwater Monitoring Wells

Dear Mr. Henry:

The New Mexico Oil Conservation Division (OCD) has reviewed Plains' above-referenced requests (dated October 2, 2009) to perform groundwater monitoring at an alternate frequency at the above-referenced site. The OCD hereby conditionally approves the alternate frequency and plugging requests as specified with the following exceptions:

Semi-annual groundwater monitoring must continue at groundwater monitoring wells, MW-16 and MW-19.

The material used to plug the groundwater monitoring wells must be a cement grout with 1% to 3% bentonite or other plugging material approved by the OCD. Please submit to the OCD a final plugging report within 90 days of receipt of this notice.

Please be advised that OCD approval of these requests does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

From: Jason Henry [mailto:JHenry@paalp.com]
Sent: Friday, October 02, 2009 9:26 AM
To: Hansen, Edward J., EMNRD
Subject: Groundwater sampling schedule and monitor well P&A request for Plains Red Byrd #1 site (1R-0085)

Ed,

As we discussed during our meeting on 09/09/2009, Plains is seeking NMOCD approval to modify the groundwater sampling schedule at the Red Byrd #1 site. Currently, the monitor wells at the site (MW-1, MW-3 through MW-19) are sampled on a quarterly schedule.

Plains respectfully requests that the following monitor wells be approved for a semi-annual sampling schedule:

MW-6
MW-7
MW-11
MW-12
MW-17
MW-18

Additionally, Plains respectfully requests that the NMOCD consider the following site monitor wells for plugging and abandonment:

MW-1
MW-3
MW-4
MW-5
MW-8
MW-9
MW-10
MW-13
MW-14
MW-15
MW-16
MW-19

Please let me know if you have any questions or need more information.

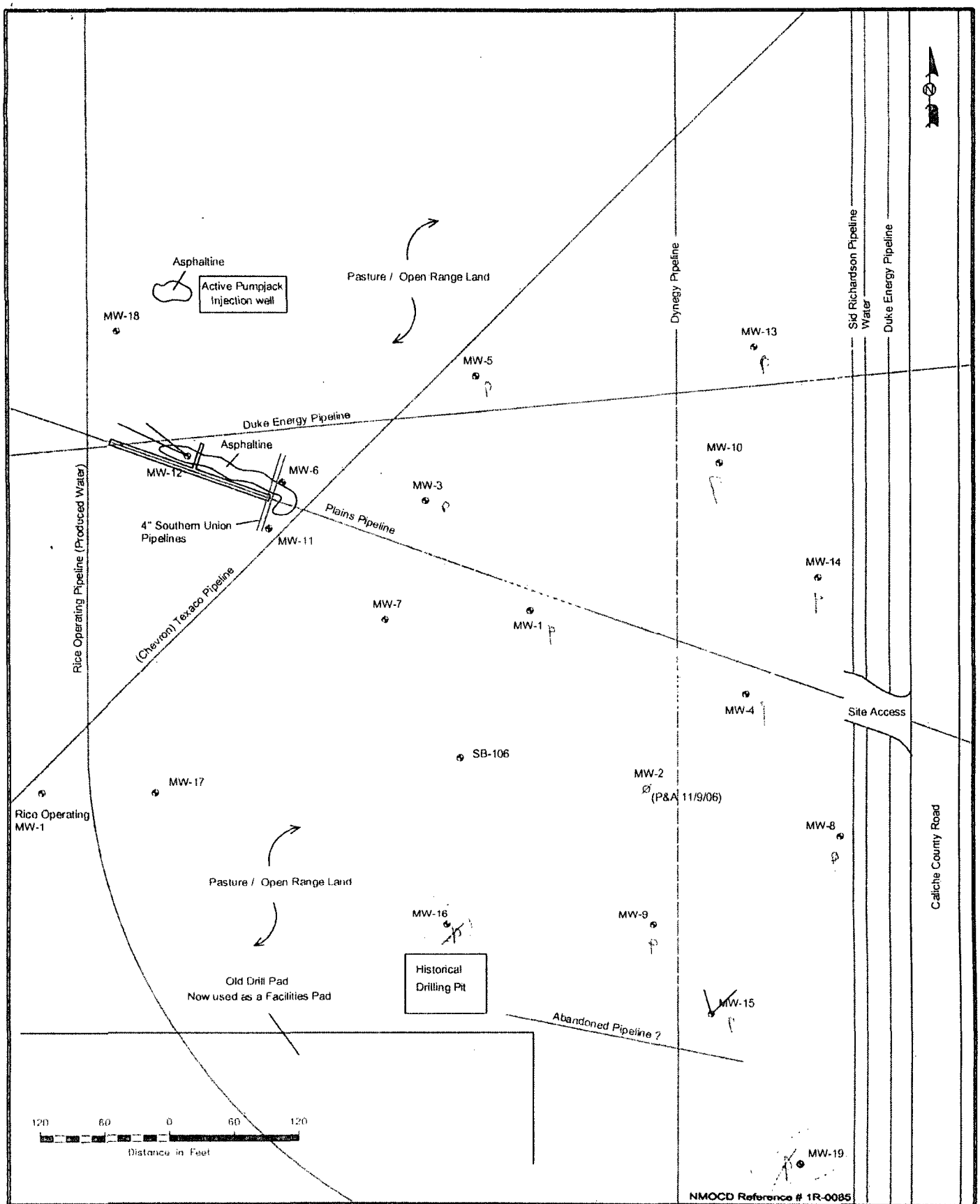
Thank you for your time and your consideration of these requests.

Jason Henry
575-441-1099

RED BYRD #1
BENZENE CONCENTRATIONS

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
1st Qtr 2008	0.154	-	0.394	0.0083	0.0825	0.279	0.0166	0.0319	0.236	0.118
2nd Qtr 2008	0.816	-	0.441	0.195	0.223	0.327	0.0116	0.0061	0.198	0.115
3rd Qtr 2008	0.284	-	0.554	0.0784	0.061	0.29	0.0083	0.0051	0.027	0.0762
4th Qtr 2008	0.322	-	0.382	0.0102	0.0266	0.126	0.0027	0.0297	0.279	0.0625
1st Qtr 2009	0.363	-	0.5818	0.01	0.0254	0.0287	0.0039	0.0344	0.6513	0.0816
2nd Qtr 2009	0.285	-	0.1608	<0.001	0.0065	0.229	0.0011	0.005	0.0011	0.0656

	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19
1st Qtr 2008	0.26	PSH	<0.001	0.0095	0.5	0.0796	0.0554	0.008	-
2nd Qtr 2008	0.231	PSH	<0.001	0.0072	0.598	0.128	0.08	0.0438	-
3rd Qtr 2008	0.0375	PSH	<0.001	0.0076	0.066	0.0566	0.0299	0.0174	<0.001
4th Qtr 2008	0.105	0.729	<0.001	0.0062	0.408	0.0732	0.0706	0.0039	0.0012
1st Qtr 2009	0.432	PSH	<0.001	0.0067	0.9456	0.2908	0.1826	0.0077	0.0027
2nd Qtr 2009	0.311	PSH	<0.001	0.0037	0.6999	0.128	0.0164	0.0068	0.0018



Legend:

- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- Excavation
- Deep Excavation
- (NG) Not Gauged
- (NS) Not Sampled

Figure 2
Site map

Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM

Basin Environmental Consulting, LLC

SE1/4 NE1/4 Sec 1 T20S R36E		32° 36' 09.2"N 103° 17' 56.9"
Scale: 1" = 100'	Prep By: CDS	Checked By: CDS
September 1, 2009		

TABLE 2

CONCENTRATIONS OF BENZENE,BTEX, CHLORIDE AND TDS IN GROUNDWATER
PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: TNM-RED BYRD #1
NMOCD REF NO: 1RP-9385

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030						EPA 300	SM2540C
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL BTEX (mg/L)	CHLORIDES (mg/L)	TDS (mg/L)
MW-1	02/27/09	0.363	0.004	0.0555	0.0516	0.0015	0.4756	7,440	11,200
	06/24/09	0.285	<0.0500	0.0425	<0.0500	<0.0250	0.3275	-	-
MW-3	02/27/09	0.5818	<0.0400	0.0866	0.164	<0.0200	0.8324	-	13,400
	06/24/09	0.1608	<0.0400	0.022	0.0714	<0.0200	0.0934	-	-
MW-4	02/27/09	0.01	0.012	0.1089	0.1041	0.0065	0.2415	-	11,300
	06/24/09	<0.0010	0.0033	0.027	0.0351	0.0011	0.0665	-	-
MW-5	02/27/09	0.0254	<0.0200	0.0107	0.0819	<0.0100	0.118	7,270	12,900
	06/24/09	0.0065	0.0039	<0.0010	0.0461	0.0056	0.0621	-	-
MW-6	2/27/2009	0.0287	0.0168	0.0038	0.0025	<0.0010	0.0518	-	14,600
	06/24/09	0.2292	0.21	0.0242	<0.0400	0.0328	0.4962	-	-
MW-7	02/27/09	0.0039	<0.0020	<0.0010	<0.0020	0.0018	0.0057	-	14,200
	06/24/09	0.0011	<0.0020	<0.0010	<0.0020	<0.0010	0.0011	-	-
MW-8	02/27/09	0.0344	0.0026	0.004	0.0229	0.0049	0.0688	7,630	11,900
	06/24/09	0.005	<0.0020	<0.0010	0.0033	<0.0010	0.0083	-	-
MW-9	02/27/09	0.6513	0.0069	0.0233	0.0163	0.0189	0.7167	-	10,300
	06/24/09	0.0011	<0.0020	<0.0010	<0.0020	<0.0010	0.0011	-	-
MW-10	02/27/09	0.0816	0.0046	0.0078	0.0124	<0.0010	0.1064	-	16,400
	6/24/09	0.0656	<0.0400	<0.0200	<0.0400	<0.0200	0.0656	-	-
MW-11	02/27/09	0.432	<0.0200	0.0566	0.027	<0.0100	0.5156	6,670	10,600
	06/24/09	0.311	<0.0400	0.0326	<0.0400	<0.0200	0.3436	-	-
MW-12	02/27/09	NOT SAMPLED DUE TO PRESENCE OF PSH							
	06/24/09	NOT SAMPLED DUE TO PRESENCE OF PSH							
MW-13	02/27/09	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	5,130	9,910
	06/24/09	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	-	-
MW-14	02/27/09	0.0067	0.0033	0.0017	0.0045	0.0046	0.0208	-	12,500
	06/24/09	0.0037	<0.0020	0.0012	<0.0020	<0.0010	0.0049	-	-
MW-15	02/27/09	0.9456	0.0034	0.1223	0.0594	0.007	1.1377	-	10,700
	06/24/09	0.6999	<0.0200	0.0789	0.0405	<0.0100	0.8193	-	-
MW-16	02/27/09	0.2908	0.0053	0.2225	0.1248	0.0067	0.6501	-	10,800
	06/24/09	0.128	<0.0400	0.0916	0.0566	<0.0200	0.2762	-	-
MW-17	02/27/09	0.1826	0.0046	0.0631	0.0596	0.0021	0.312	5,460	7,200
	06/24/09	0.0164	0.0025	0.0067	0.0049	0.0011	0.0316	-	-
MW-18	02/27/09	0.0077	0.0073	0.0322	0.0258	0.0053	0.0783	6,520	10,200
	06/24/09	0.0068	<0.0100	0.0445	0.0311	<0.0050	0.0824	-	-
MW-19	02/27/09	0.0027	<0.0020	0.0252	0.0159	0.004	0.0478	-	14,200
	06/24/09	0.0018	<0.0020	0.0114	0.0067	0.0011	0.021	-	-
NMOCD CRITERIA (mg/L)		**0.01**	**0.75**	**0.75**	**0.62**			**250**	**10,000**

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, February 19, 2009 11:29 AM
To: 'Jason Henry'
Cc: Price, Wayne, EMNRD; 'Jeffrey P Dann'; 'cjbryant@basin-consulting.com'
Subject: RE: Red Byrd Ranch Historical 1RP-1299 (1R-85)

Dear Mr. Henry:

The New Mexico Oil Conservation Division (OCD) has received the confirmation sampling report for the backfilling work plan for the Red Byrd Ranch Historical Release Site, 1R-1299 (including Red Byrd #1 Release Site, 1R-85), dated February 18, 2009, and has conducted a review of the report. The report, submitted for the above reference site, indicates that the site meets the closure requirements of the work plan approved by the OCD. Therefore, the OCD hereby approves the commencement of remediation activities at the site as specified in the work plan and as amended below for the groundwater monitoring wells, MW-6 and MW-12.

Please be advised that NMOCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

From: Camille J. Bryant [mailto:cjbryant@basin-consulting.com]
Sent: Wednesday, February 18, 2009 4:24 PM
To: Hansen, Edward J., EMNRD
Subject: Red Byrd Ranch Historical 1RP-1299

Mr. Hansen,

Pursuant to our phone conversation this morning concerning remediation activities at the Plains Pipeline Red Byrd Historical release site NMOCD ref# 1RP-1299, attached is a current Site Map and Soil Chemistry Table for the location. As indicated on the site map, the sidewall samples collected from the excavation are below 100 mg/Kg. As per the NMOCD approved Site Investigation Plan dated May 2008, the excavated soil will be blended until confirmation soil samples indicate TPH concentrations below 1,000 mg/Kg. Upon NMOCD approval, a 20 mil poly liner will be installed in the floor of the excavation and the excavation will be backfilled with the blended soil. The two monitor wells (MW-6 and MW-12) located inside the excavation will be extended to the surface. To ensure the integrity of the monitor wells 6-inch PVC riser will be installed in the floor of the excavation and extended to the surface around the 2-inch monitor wells. A 40 mil poly boot will be installed at the base of the monitor well and welded to the 20 mil poly liner. The excavation will be backfilled and contoured to fit the surrounding topography.

At this time Basin, on behalf of Plains, is requesting NMOCD approval to proceed with the remediation activities.

Please contact me with any questions at 575-605-7210.

Sincerely,

Camille Bryant
Basin Consulting

Hansen, Edward J., EMNRD

From: Camille J. Bryant [cjbryant@basin-consulting.com]
Sent: Wednesday, February 18, 2009 4:24 PM
To: Hansen, Edward J., EMNRD
Subject: Red Byrd Ranch Historical 1RP-1299
Attachments: Soil Chemistry Table Red Byrd Historical.xls; Red Byrd Ranch Site Map 2009.pdf

Mr. Hansen,

Pursuant to our phone conversation this morning concerning remediation activities at the Plains Pipeline Red Byrd Historical release site NMOCD ref# 1RP-1299, attached is a current Site Map and Soil Chemistry Table for the location. As indicated on the site map, the sidewall samples collected from the excavation are below 100 mg/Kg. As per the NMOCD approved Site Investigation Plan dated May 2008, the excavated soil will be blended until confirmation soil samples indicate TPH concentrations below 1,000 mg/Kg. Upon NMOCD approval, a 20 mil poly liner will be installed in the floor of the excavation and the excavation will be backfilled with the blended soil. The two monitor wells (MW-6 and MW-12) located inside the excavation will be extended to the surface. To ensure the integrity of the monitor wells 6-inch PVC riser will be installed in the floor of the excavation and extended to the surface around the 2-inch monitor wells. A 40 mil poly boot will be installed at the base of the monitor well and welded to the 20 mil poly liner. The excavation will be backfilled and contoured to fit the surrounding topography.

At this time Basin, on behalf of Plains, is requesting NMOCD approval to proceed with the remediation activities.

Please contact me with any questions at 575-605-7210.

Sincerely,

Camille Bryant
Basin Consulting

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
RED BYRD RANCH HISTORICAL
LEA COUNTY, NEW MEXICO
SRS# RED BYRD RANCH TNM HISTORICAL
NMOCD REF. # 1RP-1299

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 848-8015M			
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (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)	TOTAL TPH C_6-C_{35} (mg/Kg)
PEW		05/30/07		-	-	-	-	-	-	1,350	3,580	1,000	5,930
PSEW		05/30/07		-	-	-	-	-	-	1,660	8,510	1,060	11,230
PNWW		05/30/07		-	-	-	-	-	-	2,890	14,900	2,060	19,850
PBNC		05/30/07		-	-	-	-	-	-	2,270	5,230	928	8,428
PBE		05/30/07		-	-	-	-	-	-	2,370	4,540	789	7,699
PSEW Low		05/30/07		-	-	-	-	-	-	1,420	5,150	810	7,380
E Wall E 8"	8 Inches	06/01/07		-	-	-	-	-	-	<10	<10	<10	<10
FLR East Exc.		06/01/07		-	-	-	-	-	-	80.6	286	54.0	420.6
FLR Ext Ecs 1		06/01/07		-	-	-	-	-	-	1,320	2,590	360	4,270
FLR Ext Ecs 2		06/01/07		-	-	-	-	-	-	1,880	3,710	447	6,037
W Wall 3'	3 Feet	06/01/07		-	-	-	-	-	-	12.2	75.6	16.7	104.5
W Wall 13'	13 Feet	06/01/07		-	-	-	-	-	-	1,810	3,420	422	5,652
T1Bottom @ 10'	10 Feet	06/05/07		-	-	-	-	-	-	<1.00	<50		<50
PNEW		06/05/07		-	-	-	-	-	-	<1.00	<50		<50
PBC		06/05/07		-	-	-	-	-	-	<10.0	<10.0		<10.0
PSWW		06/05/07		-	-	-	-	-	-	272	2,830		3,102
PWW		06/05/07		-	-	-	-	-	-	183	7.64		190.64
SPE		06/05/07		-	-	-	-	-	-	526	28.2		554.2
SPS		06/05/07		-	-	-	-	-	-	66.6	526		592.6
SPN		06/05/07		-	-	-	-	-	-	71.1	489		560.1
SPW		06/05/07		-	-	-	-	-	-	56.4	133		189.4
T-2 WBH @8'	8 Feet	06/05/07		-	-	-	-	-	-	6.79	<50		6.79
T-2 EBH @ 8'	8 Feet	06/05/07		-	-	-	-	-	-	3.24	<50		3.24
PNW		06/25/07		-	-	-	-	-	-	227	3,250		3,477

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
RED BYRD RANCH HISTORICAL
LEA COUNTY, NEW MEXICO
SRS# RED BYRD RANCH TNM HISTORICAL
NMOCD REF. # 1RP-1299

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 848-8015M			
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (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)	TOTAL TPH C_6-C_{35} (mg/Kg)
SB1-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB1-07-20'	20 Feet	11/28/07		<0.0200	0.0399	0.0926	0.0661		0.1986	104	760		864
SB2-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	1.12	<50		1.12
SB2-07-20'	20 Feet	11/28/07		<0.0500	0.250	0.249	0.808			426	2,000		2,426
SB3-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	3.09	<50		3.09
SB3-07-20'	20 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB3-07-29'	29 Feet	11/28/07		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	11.8	152.0		163.8
SB4-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB4-07-20'	20 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB4-07-29'	29 Feet	11/28/07		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<1.00	<50		<50
SB5-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB5-07-20'	20 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB5-07-29'	29 Feet	11/28/07		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<1.00	<50		<50
SB6-07-10'	10 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB6-07-20'	20 Feet	11/28/07		-	-	-	-	-	-	<1.00	<50		<50
SB6-07-29'	29 Feet	11/28/07		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<1.00	<50		<50
E/S Stockpile	N/A	12/10/08	N/A	-	-	-	-	-	-	<89.6	514	117	631
W/S Stockpile	N/A	12/10/08	N/A	-	-	-	-	-	-	140	927	177	1,244
Blended Soil-1	N/A	01/05/09	N/A	-	-	-	-	-	-	95.5	958	191	1,244.5
Blended Soil-2	N/A	01/05/09	N/A	-	-	-	-	-	-	72.2	864	172	1,108.2
Blended Soil-3	N/A	01/05/09	N/A	<0.0011	<0.0022	0.0035	0.0064	0.0098	0.0197	49.3	374	124	547.3
Blended Soil-4	N/A	01/05/09	N/A	<0.0011	<0.0022	0.0052	0.008	0.0267	0.0399	64.7	508	104	676.7
Blended Soil-5	N/A	01/05/09	N/A	<0.0011	<0.0022	0.0018	0.0041	0.0057	0.0116	38.8	350	127	516
Blended Soil-6	N/A	01/05/09	N/A	<0.0011	<0.0022	<0.0011	<0.0022	0.0012	0.0012	<16.4	59.3	30.4	89.7
Blended Soil-7	N/A	01/05/09	N/A	<0.0011	<0.0021	0.0027	0.0051	0.0082	0.016	44.3	592	135	771.3
Blended Soil-8	N/A	01/05/09	N/A	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	23.6	<16.2	23.6

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
RED BYRD RANCH HISTORICAL
LEA COUNTY, NEW MEXICO
SRS# RED BYRD RANCH TNM HISTORICAL
NMOCD REF. # 1RP-1299

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 848-8015M			
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (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)	TOTAL TPH C_6-C_{35} (mg/Kg)
Blended Soil -9	N/A	01/05/09	N/A	<0.0011	<0.0022	0.0012	0.0073	0.0084	0.0169	29.1	98.3	<16.8	127.4
Blended Soil-10	N/A	01/05/09	N/A	<0.0011	<0.0022	<0.0011	<0.0022	0.0015	0.0015	28.3	114	<16.4	142.3
SP-1	N/A	01/05/09	N/A	<0.0011	0.0176	0.2528	0.042	0.1545	0.4669	147	395	<83.7	542
SP-2	N/A	01/14/09	N/A	<0.0011	<0.0022	0.0011	<0.0022	0.004	0.0051	38	135	83	256
SP-3	N/A	01/14/09	N/A	<0.0010	<0.0021	0.0087	0.017	0.0247	0.0504	129	735	259	1,123
SP-4	N/A	01/14/09	N/A	<0.0011	<0.0021	0.0086	0.0264	0.0344	0.0694	97	761	160	1,017
NSW 1A	17 Feet	01/14/09	Excavated	<0.0010	0.0435	0.0269	0.1214	0.0422	0.234	490	10,100	2,040	12,630
NSW 1B	17 Feet	01/14/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	48	27	75
WSW 1A	17 Feet	01/14/09	Excavated	<0.0512	2.996	2.993	11.86	4.412	22.261	1,480	3500	493	5,473
SSW 1A	17 Feet	01/14/09	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.6	<17.6	<17.6	<17.6
SSW 1B	17 Feet	01/14/09	Excavated	<0.0514	0.9294	2.237	9.197	2.203	14.5664	2,050	5,260	701	8,011
SSW 1C	17 Feet	01/14/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9
Blended -11	N/A	01/26/09	N/A	-	-	-	-	-	-	507	1,610	172	2,289
Blended -12	N/A	01/26/09	N/A	<0.0011	0.0259	0.0639	0.269	0.0705	0.4293	166	590	63.2	819.2
Blended -13	N/A	01/26/09	N/A	<0.0011	<0.0022	0.0124	0.0589	0.0216	0.0929	63.4	312	43	418.4
Blended -14	N/A	01/26/09	N/A	-	-	-	-	-	-	297	1,220	171	1,688
Blended -15	N/A	01/26/09	N/A	-	-	-	-	-	-	408	1,840	262	2,510
Blended -16	N/A	01/26/09	N/A	-	-	-	-	-	-	236	975	140	1,351
Blended -17	N/A	01/26/09	N/A	-	-	-	-	-	-	546	1,650	289	2,485
Blended -18	N/A	01/26/09	N/A	-	-	-	-	-	-	521	1,160	162	1,843
Blended -19	N/A	01/26/09	N/A	-	-	-	-	-	-	320	904	133	1,357
Blended -20	N/A	01/26/09	N/A	<0.0011	0.0204	0.0323	0.155	0.079	0.2867	89.5	612	97.7	799.2
WSW - 2A	17 Feet	01/26/09	Excavated	-	-	-	-	-	-	41.5	341	41.9	424.4
SSW - 2B	17 Feet	01/26/09	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2
SSW - 1D	17 Feet	01/26/09	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3
West Wall 13' A	13 Feet	01/26/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1
NSW - 2A	17 Feet	01/26/09	Excavated	-	-	-	-	-	-	<16.2	133.0	<16.2	133

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
RED BYRD RANCH HISTORICAL
LEA COUNTY, NEW MEXICO
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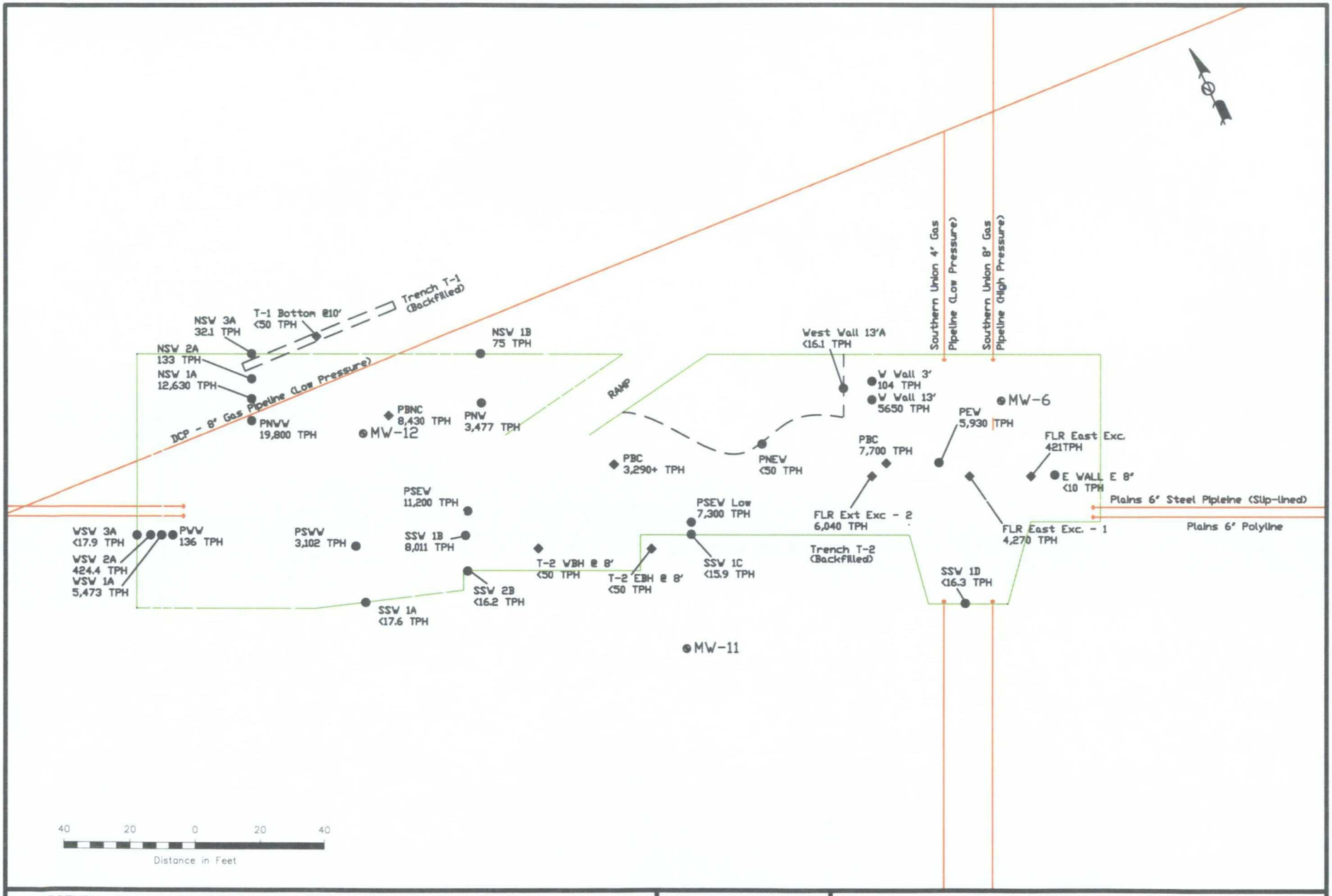
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)
NSW - 3A	17 Feet	02/06/09	In-Situ	-	-	-	-	-	-	<15.5	32.1	<15.5	32.1
WSW - 3A	17 Feet	02/06/09	In-Situ	-	-	-	-	-	-	<17.9	<17.9	<17.9	<17.9
Blended Soil 1A	N/A	02/06/09	N/A	-	-	-	-	-	-	131	1,370	214	1,715
Blended Soil 2A	N/A	02/06/09	N/A	-	-	-	-	-	-	54.3	831	150	1,035.3
SP - 3A	N/A	02/06/09	N/A	-	-	-	-	-	-	111	718	118	947
SP - 4A	N/A	02/06/09	N/A	-	-	-	-	-	-	67.9	565	96.6	729.5



LEGEND:

- Monitor Well Location
- Pipelines
- Excavation Extents
- Bench or Previous Extent Inside Excavation
- Excavation Sidewall Sample
- Excavation Floor Sample

Figure 2
Site Map
Plains Marketing, L.P.
Red Byrd Ranch
TNM Historical
Monument, NM

Basin Environmental Services

Scale: 1" = 40'	Prep By: CDS	Checked By: CDS
February 18. 2009		