Basin Environmental Service Technologies, LLC

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Effective Solutions

PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE REQUEST

PLAINS MARKETING, L.P. (231735)
E K Queen 6-Inch
Lea County, New Mexico
Plains SRS # 2006-377
UNIT L (NW/SW), Section 7, Township 18S, Range 35E
Latitude 32°, 45', 38.2" North, Longitude 103°, 30', 13.5" West
NMOCD File Number: 1RP-1125

Prepared For:

PLAINS
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:
Basin Environmental Service Technologies, LLC

01 May 2007

Ken Dutton
Basin Environmental Service Technologies, LLC

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline crude oil release for Plains Marketing, L.P. (Plains), located at the E K Queen 6" Pipeline on 10 November 2006. The E K Queen 6" Pipeline was clamped and excavation of the impacted soil was initiated and stockpiled on a 6-ml poly-liner adjacent to the excavation. The E K Queen 6" Pipeline is located on land owned by the State of New Mexico.

This site is located in Unit L (NW¼/SW¼) Section 7, Township 18 South, Range 35 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 45', 38.2" North and site longitude is 103°, 30', 13.5" West. The site is characterized by a pipeline right-of-way located in a pasture utilized for cattle grazing and numerous oil and natural gas producing facilities. The visible surface stained area included the release point covering an area approximately 55 feet long by 30 feet wide. Approximately 10 barrels of crude oil were released from the E K Queen 6" Pipeline and 0 barrels were recovered.

An Emergency One-Call was initiated 10 November 2006 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Ms. Pat Caperton, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on 10 November 2006. A C-141 form, dated 13 November 2006 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix C, NMOCD C-141). A request for a right-of-entry permit was submitted to The New Mexico State Land Office (SLO), Santa Fe Office, and subsequently approved to perform remediation and restoration activities on-site (see Appendix E, SLO ROE-1471, 19 February 2007).

SUMMARY OF FIELD ACTIVITIES

On 10 November 2006, Basin mobilized to the E K Queen 6" Pipeline release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After the crude oil release had been contained utilizing a pipeline repair clamp, excavation of the release point and flow path area was accomplished (see Figure 2, Excavation Site Map). The release point and visually stained area was initially excavated to approximately 55 feet long by 30 feet wide and approximately 12 feet below ground surface (bgs). Approximately 500 cubic yards of clean overburden and impacted soil was stockpiled on-site commensurate with remediation activities.

On 29 November 2006, confirmation soil samples were collected from the walls and floor of the excavated area. The five (5) confirmation soil samples collected were field screened with a Photoionization Detector (PID), (see Figure 3, Excavation Site Map - Soil Sampling Locations) and were analyzed for benzene, toluene,

ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the five (5) confirmation soil samples indicated that constituent concentrations of BTEX were below NMOCD regulatory standards for all five (5) soil samples (see Table 1, Soil Chemistry Results). Laboratory results of the five (5) confirmation soil samples indicated that TPH-GRO/DRO concentrations were not detected above laboratory method detection limits for three (3) soil samples; were below NMOCD regulatory standards for one (1) soil sample and exceeded NMOCD regulatory standards for the remaining soil sample (excavation floor 12'). Based on the laboratory results, continued excavation of the crude oil release site floor was warranted.

In February 2007, continued excavation of the floor was conducted, resulting in a final excavated area of 55 feet long by 30 feet wide and approximately fourteen (14) feet bgs. Approximately 200 cubic yards of additional impacted soil was excavated and segregated on a 6-mil poly-liner, resulting in a total of approximately 700 cubic yards stockpiled on-site. A confirmation soil sample was collected from the excavation floor that previously exceeded NMOCD regulatory standards for TPH-DRO/GRO concentrations. The confirmation soil sample collected was field screened with a PID and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results of the over-excavated floor confirmation soil sample indicated that constituent concentrations of BTEX and TPH GRO/DRO were below NMOCD regulatory standards. Based on the laboratory results, no further excavation activities were required.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed the average depth to groundwater to be 85 feet bgs for that section, township and range. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of 10 – 19, which sets the remediation levels at:

Benzene:	10 ppm
BTEX:	50 ppm
TPH:	1000 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

On 10 November 2006, Basin mobilized to the E K Queen 6" Pipeline release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After the crude oil release had been contained utilizing a pipeline repair clamp, excavation of the release point and flow path area was accomplished (see Figure 2, Excavation Site Map). The release point and visually stained area was initially excavated to approximately 55 feet long by 30 feet wide and

approximately 12 feet below ground surface (bgs). Approximately 500 cubic yards of clean overburden and impacted soil was stockpiled on-site commensurate with remediation activities.

On 29 November 2006, confirmation soil samples were collected from walls and floor of the excavated area. The five (5) confirmation soil samples collected were field screened with a Photoionization Detector (PID), (see Figure 3, Excavation Site Map - Soil Sampling Locations) and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the five (5) confirmation soil samples indicated that constituent concentrations of BTEX were below NMOCD regulatory standards for one (1) soil sample and were not detected above laboratory method detection limits for the remaining four (4) soil samples (see Table 1, Soil Chemistry Results). Laboratory results for the five (5) confirmation soil samples indicated that TPH-GRO/DRO concentrations were not detected above laboratory method detection limits for three (3) soil samples (east sidewall, west sidewall, south sidewall); were below NMOCD regulatory standards for the north sidewall soil sample at 49.2 mg/kg and exceeded NMOCD regulatory standards for the excavation floor soil sample at 8340 mg/kg. Based on the laboratory results, continued excavation of the crude oil release site floor was warranted.

In February 2007, continued excavation of the floor was conducted to approximately fourteen (14) feet bgs resulting in approximately 200 cubic yards of additional impacted soil was excavated. The additional impacted soil was segregated from the previously excavated soil and placed on a 6-mil poly-liner. A confirmation soil sample was collected from the excavation floor that previously exceeded NMOCD regulatory standards for TPH-DRO/GRO concentrations. The confirmation soil sample collected was field screened with a PID and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results of the excavation floor confirmation soil sample indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits and TPH-GRO/DRO concentrations were below NMOCD regulatory standards at 57 mg/kg. Based on the laboratory results, no further excavation activities were required.

CLOSURE REQUEST

Approximately 700 cubic yards of impacted soil was excavated and stockpiled on-site resulting from the emergency response and remediation activities. Based on the results of the remedial activities conducted, Plains obtained an approved permit (NMOCD Form C-138) to transport the approximately 200 cubic yards of segregated impacted soil (46,300 mg/kg TPH) to the Plains Lea Station Landfarm (LSLF). The remaining stockpiled material (2670 mg/kg TPH) was mechanically screened and the separated caliche rock utilized as partial backfill. A soil sample was collected from the mechanically separated soil and was analyzed for constituent concentrations of BTEX and TPH-GRO/DRO to ensure NMOCD remedial thresholds were met. Once laboratory results indicated the mechanically screened soil had met NMOCD

thresholds, the screened soil was utilized as backfill and contoured to match the original rangeland grade.

An approved right-of-entry permit was requested and received from the SLO, dated 19 February 2007. The approved permit, ROE-1471, granted access to the site for remediation and restoration, which also included reclamation and reseeding requirements. As requested in the approved ROE-1471, Plains will coordinate restoration and reseeding activities with the SLO.

Based on the remedial activities conducted at the E K Queen 6" release site, Basin, on behalf of Plains, requests that the NMOCD consider this site eligible for closure pursuant to *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993).*

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Remediation/Closure Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, 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 Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, 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 Marketing, L.P. 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 Plains Marketing, L.P.

DISTRIBUTION

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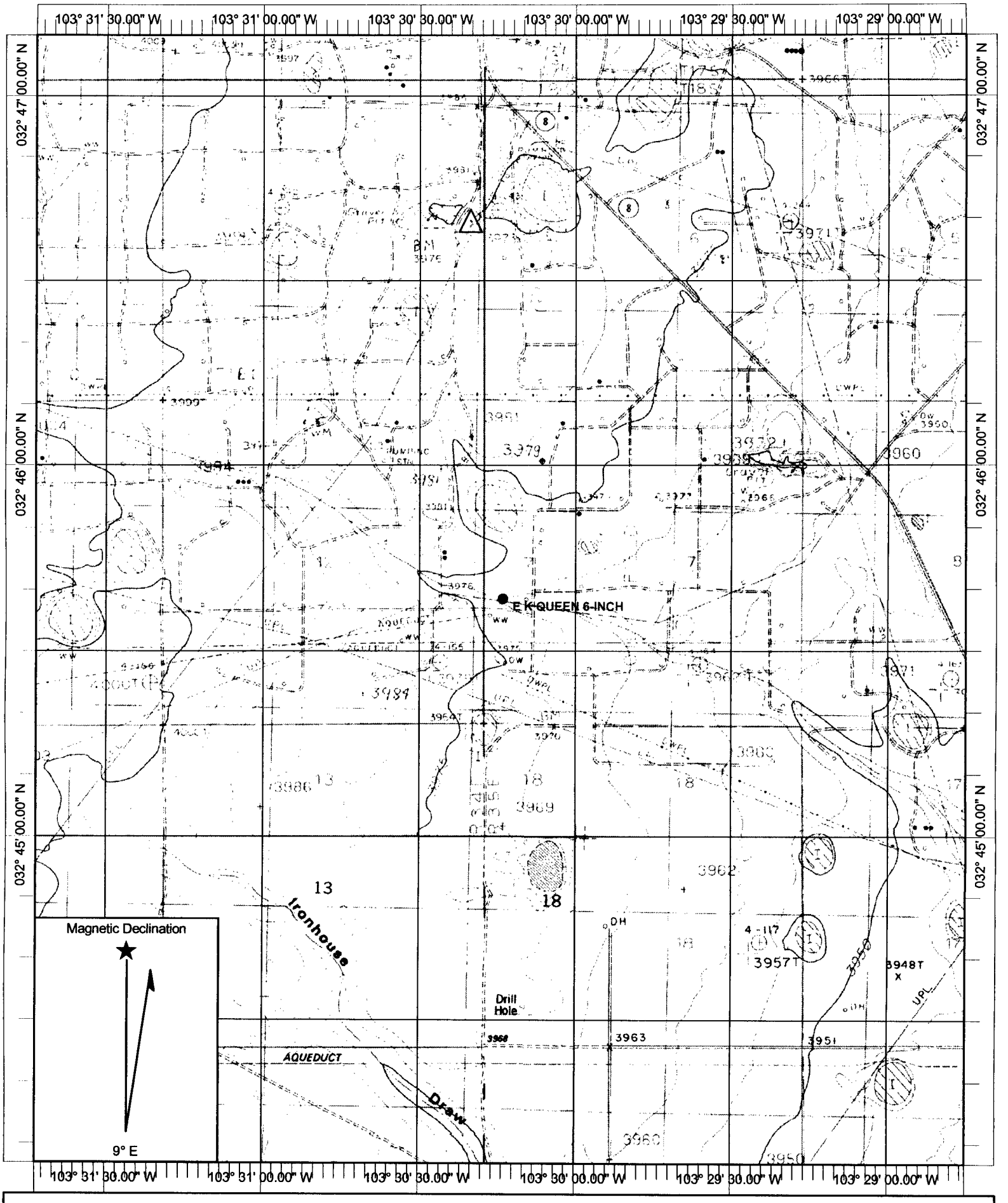
Copy 3

TABLE 1

SOIL CHEMISTRY RESULTS

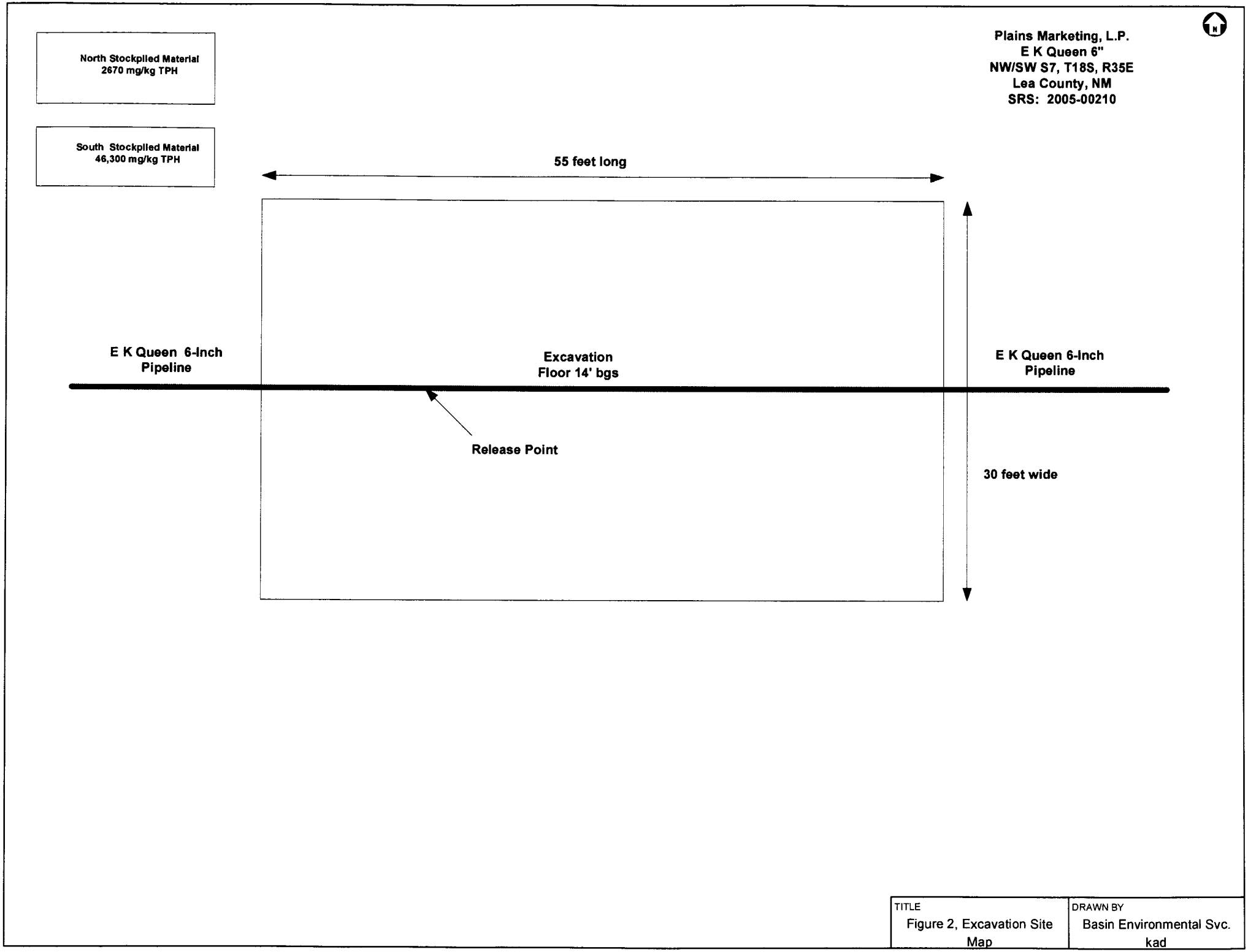
PLAINS MARKETING, L.P.
E K QUEEN 6-INCH
LEA COUNTY, NEW MEXICO
SRS: 2006-377

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH
			BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENE	GRO	DRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
E S/W 6'	6' bgs	11/29/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
W S/W 6'	6' bgs	11/29/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
N S/W 6'	6' bgs	11/29/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10	49.2	49.2
S S/W 6'	6' bgs	11/29/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
EXV FLR 12'	12' bgs	11/29/06	<0.025	0.031	0.058	0.102	0.069	389	7951	8340
EXCV FLR	14' bgs	02/21/07	<0.025	<0.025	<0.025	<0.025	<0.025	<10	57	57
N STCKPL	N/A	02/21/07	0.055	1.61	3.00	7.17	3.97	633	2036	2670
S STCKPL	N/A	02/21/07	35.1	163	116	137	63.4	17,900	28,400	46,300
SCREENED SOIL	N/A	04/02/07	<0.025	<0.025	<0.025	<0.025	0.139	<10.0	428	428
NMOCD Criteria			**10**	**TOTAL BTEX 50**						**1000**



Name: BUCKEYE
Date: 5/2/2007
Scale: 1 inch equals 2000 feet

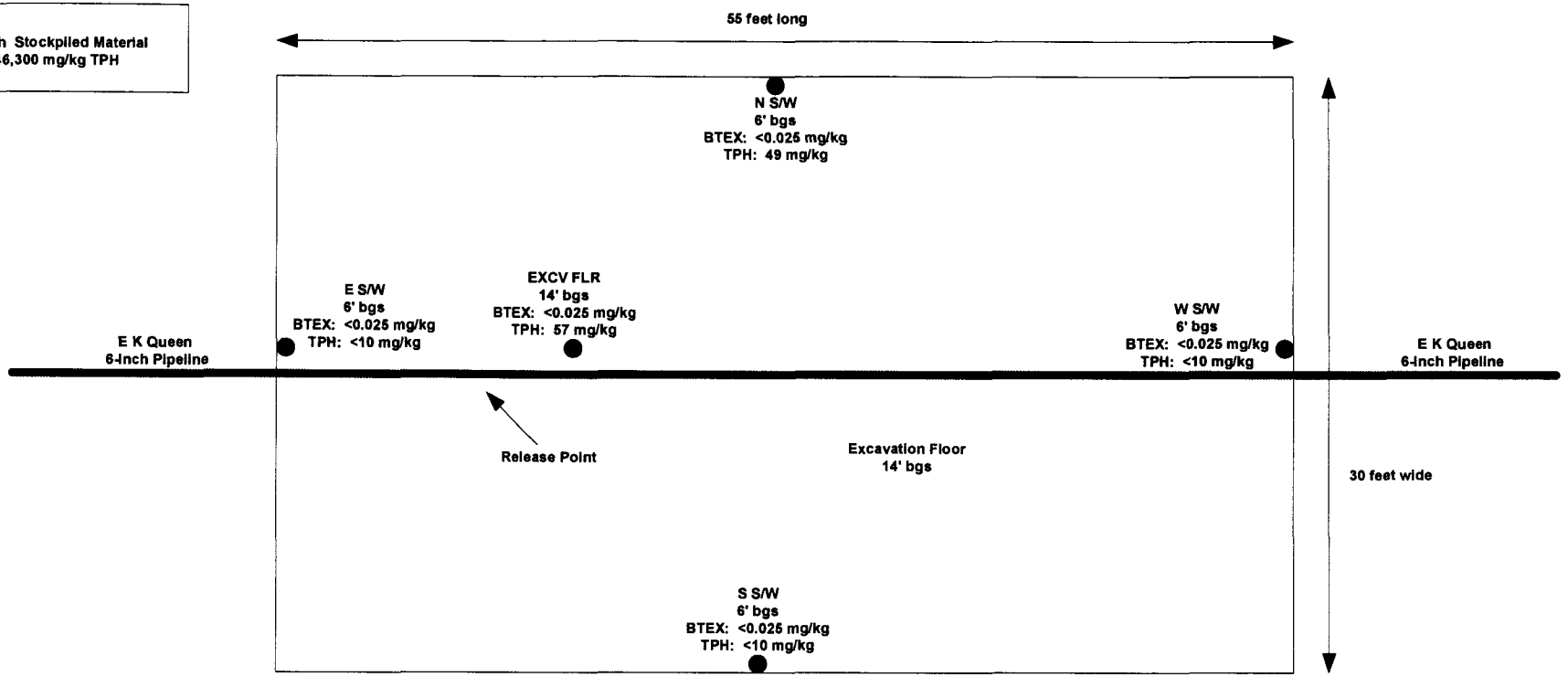
Location: 032° 45' 38.38" N 103° 30' 14.31" W NAD 27
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
E K Queen 6-Inch


North Stockpiled Material
2670 mg/kg TPH
South Stockpiled Material
46,300 mg/kg TPH
Plains Marketing, L.P.
E K Queen 6"
NW/SW S7, T18S, R35E
Lea County, NM
SRS: 2005-00210
55 feet long
E K Queen 6-Inch
Pipeline
Excavation
Floor 14' bgs
E K Queen 6-Inch
Pipeline
Release Point
30 feet wide
TITLE
Figure 2, Excavation Site Map
DRAWN BY
Basin Environmental Svc.
kad

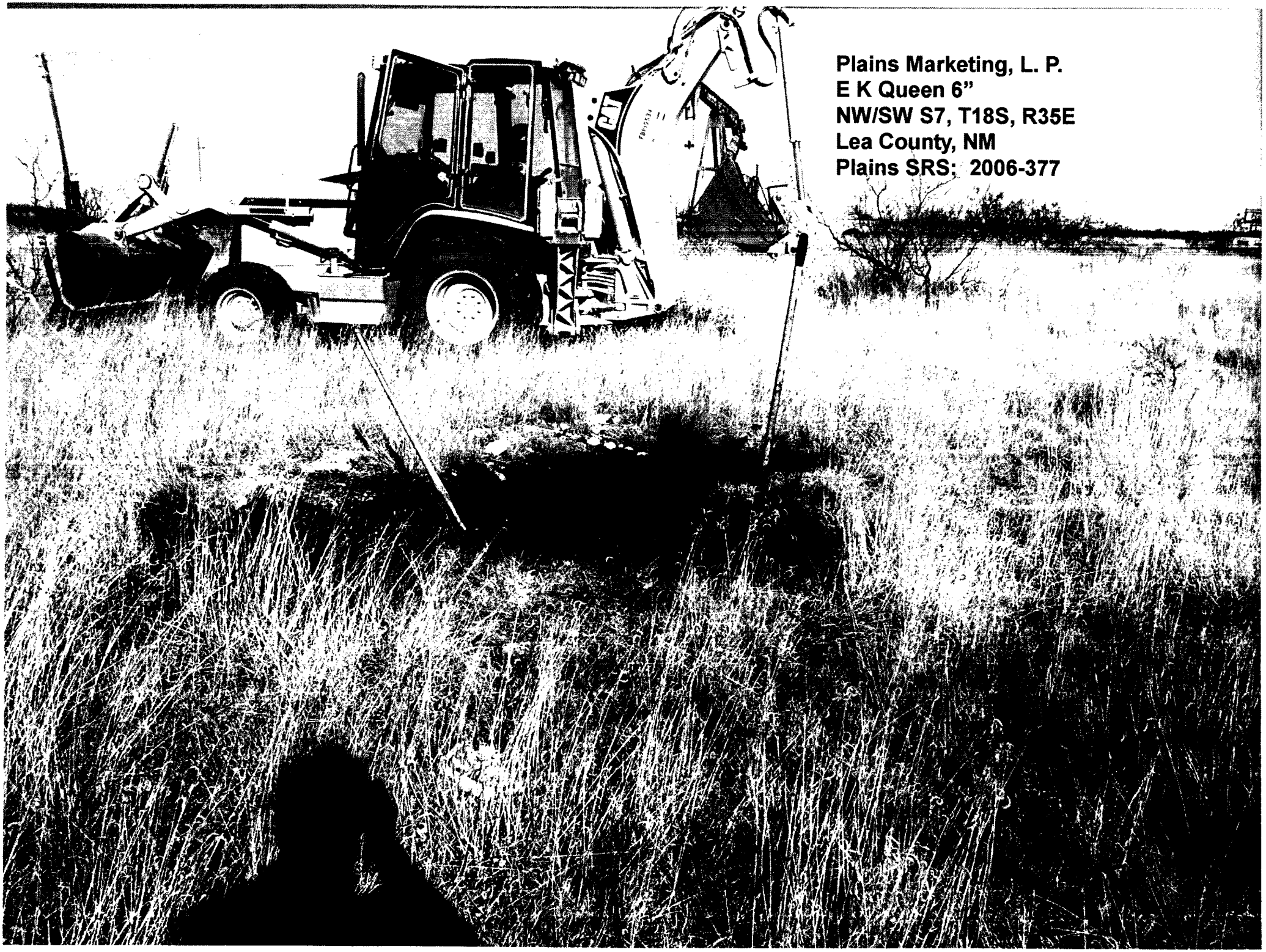
Plains Marketing, L.P.
E K Queen 6"
NW/SW S7, T18S, R35E
Lea County, NM
SRS: 2005-00210

North Stockpiled Material
2670 mg/kg TPH

South Stockpiled Material
46,300 mg/kg TPH

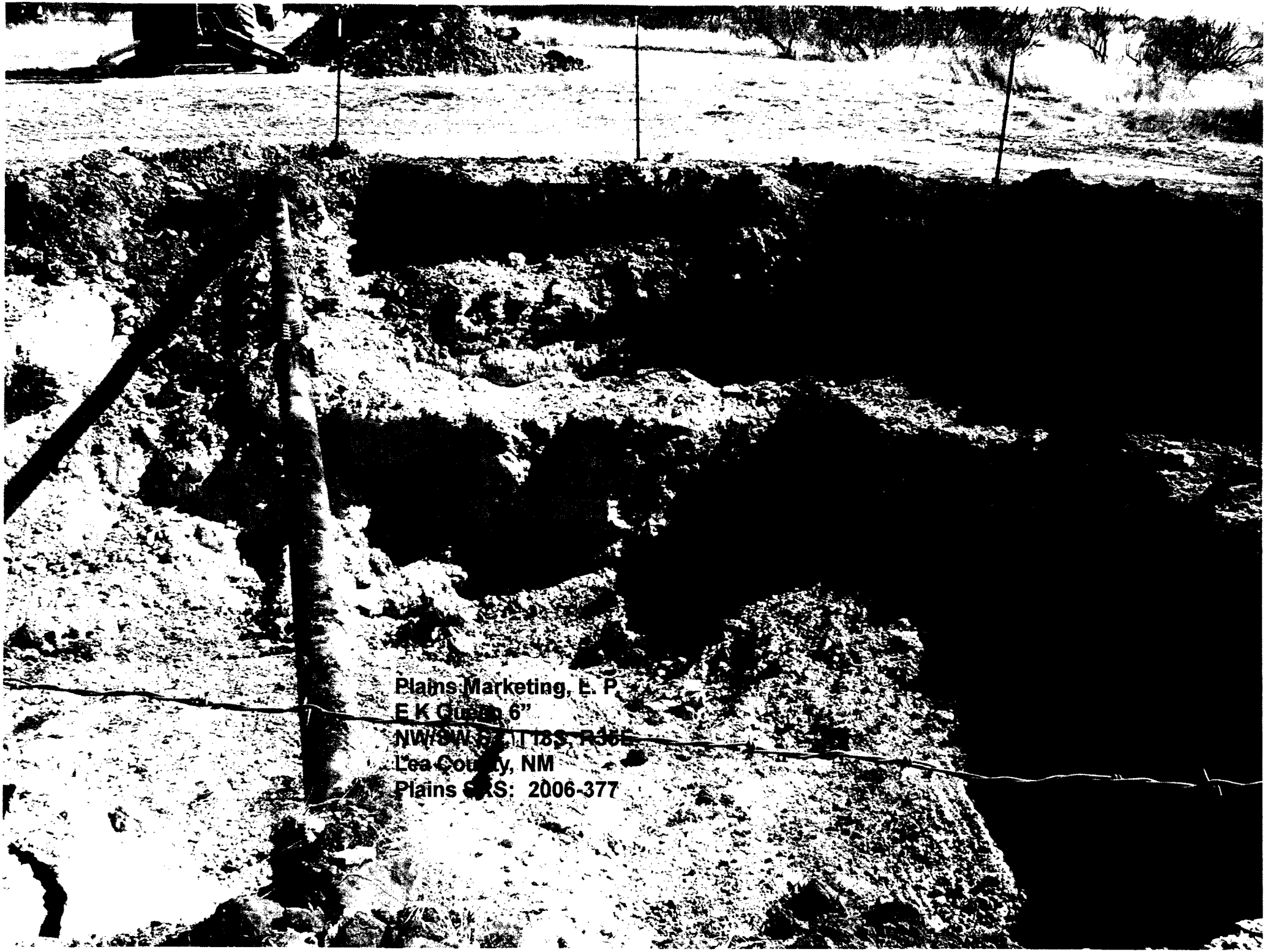


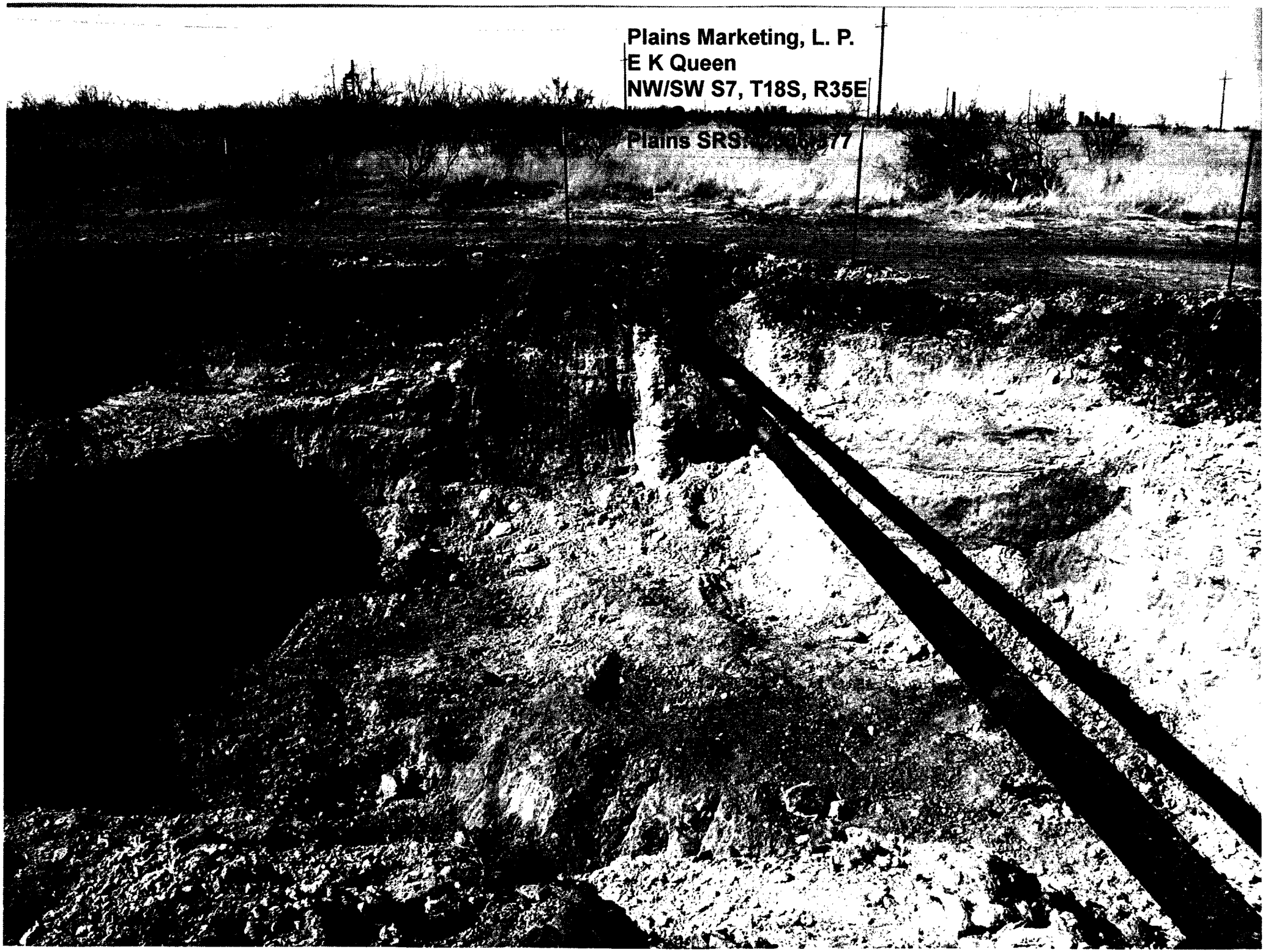
TITLE	DRAWN BY
Figure 3, Final Soil Sampling Locations	Basin Environmental Svc. kad



Plains Marketing, L. P.
E K Queen 6"
NW/SW S7, T18S, R35E
Lea County, NM
Plains SRS; 2006-377

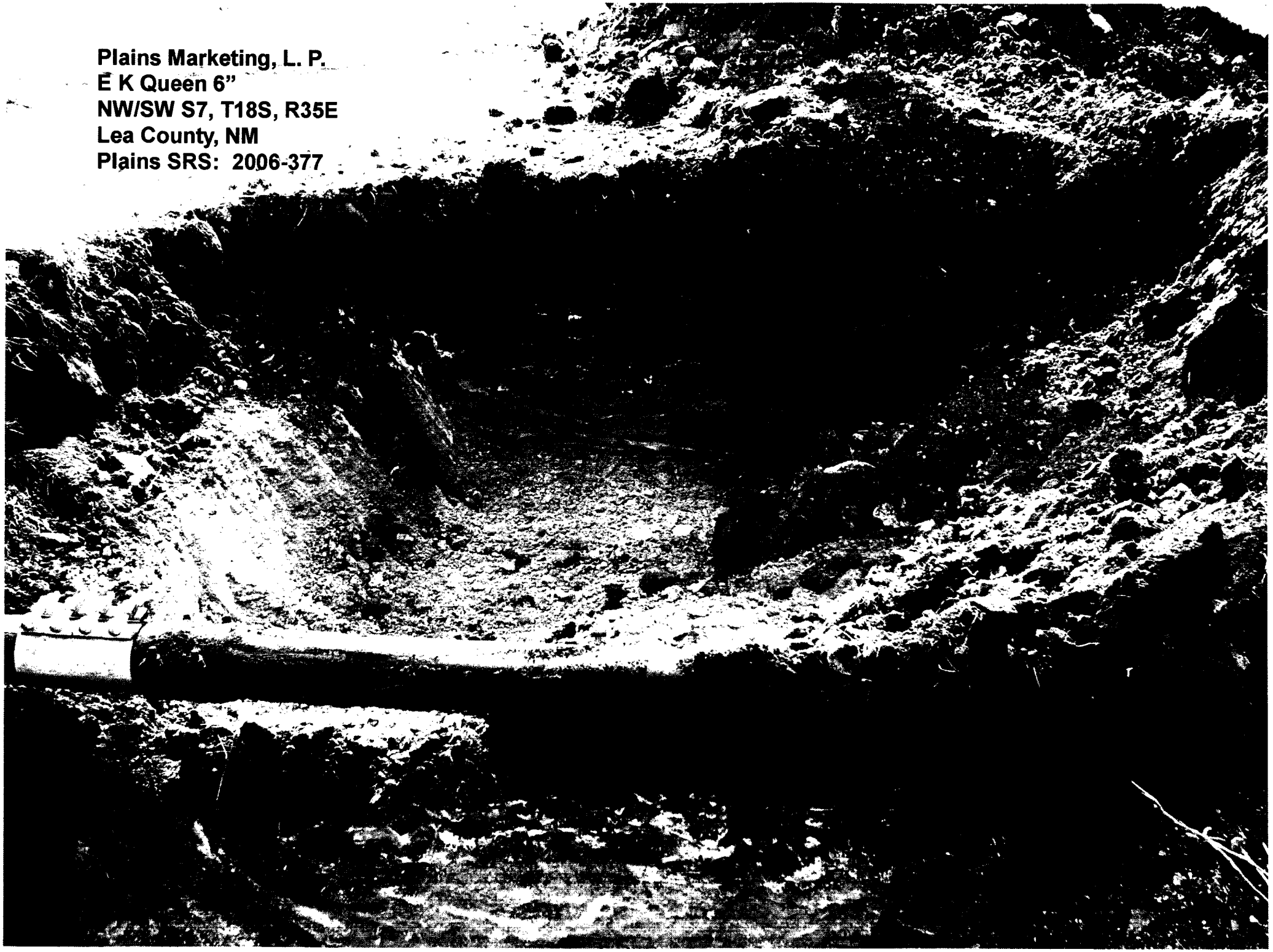
Plains Marketing, L. P.
E K Queen 6"
NW/SW S7, T18S, R35E
Lea County, NM
Plains SRS: 2006-377


Plains Marketing, L. P.
E K Queen 6"
NW/SW 27, T18S, R36E
Lea County, NM
Plains SRS: 2006-377


Plains Marketing, L. P.
E K Queen
NW/SW S7, T18S, R35E
Plains SRS:


Plains Marketi
E K Queen 6"
NW/SW S
Lea County, NM
Plains SR


Lea County, NM
ins SRS: 2006-377


Plains Marketing, L. P.
E K Queen 6"
NW/SW S7, T18S, R35E
Lea County, NM
Plains SRS: 2006-377

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 18S Range: 35E Sections: 7

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 03/23/2007

								(Depth Water in Feet)		
Bsn	**Tws**	**Rng**	**Sec**	**Zone**	**X**	**Y**	**Wells**	**Min**	**Max**	**Avg**
L	18S	35E	07				8	75	95	85

Record Count: 8

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: E K Queen 6 inch

Project Number: 2006-377

Location: Lea County, NM

Lab Order Number: 7B23007

Report Date: 02/27/07

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXCV FLR	7B23007-01	Soil	02/21/07 14:30	02-23-2007 13:04
N STCKPL	7B23007-02	Soil	02/21/07 15:00	02-23-2007 13:04
S STCKPL	7B23007-03	Soil	02/21/07 15:15	02-23-2007 13:04

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

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
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
EXCV FLR (7B23007-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72303	02/23/07	02/24/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*75.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.6 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB72312	02/23/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	**45.6**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**12.2**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**57.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
N STCKPL (7B23007-02) Soil									
Benzene	**0.0556**	0.0250	mg/kg dry	25	EB72303	02/23/07	02/24/07	EPA 8021B	
Toluene	**1.61**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**3.00**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**7.17**	0.0250	"	"	"	"	"	"	
Xylene (o)	**3.97**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*75-125*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**633**	10.0	mg/kg dry	1	EB72312	02/23/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	**1830**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**206**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**2670**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*146 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*158 %*	*70-130*		"	"	"	"	*S-04*

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
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
S STCKPL (7B23007-03) Soil									
Benzene	**35.1**	0.200	mg/kg dry	200	EB72303	02/23/07	02/24/07	EPA 8021B	
Toluene	**163**	0.200	"	"	"	"	"	"	
Ethylbenzene	**116**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**137**	0.200	"	"	"	"	"	"	
Xylene (o)	**63.4**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1510 %*	*75-125*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*133 %*	*75-125*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**17900**	50.0	mg/kg dry	5	EB72312	02/23/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	**27200**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1200**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**46300**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EXCV FLR (7B23007-01) Soil									
% Moisture	**9.3**	0.1	%	1	EB72401	02/23/07	02/24/07	% calculation	
N STCKPL (7B23007-02) Soil									
% Moisture	**9.4**	0.1	%	1	EB72401	02/23/07	02/24/07	% calculation	
S STCKPL (7B23007-03) Soil									
% Moisture	**10.1**	0.1	%	1	EB72401	02/23/07	02/24/07	% calculation	

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

Project: E K Queen 6 inch
Project Number: 2006-377
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 EB72303 - EPA 5030C (GC)										
Blank (EB72303-BLK1)				Prepared & Analyzed: 02/23/07						
Benzene	ND	0.00100	mg/kg wet							
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/kg*	*50.0*		*81.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*46.5*		"	*50.0*		*93.0*	*75-125*			
LCS (EB72303-BS1)				Prepared & Analyzed: 02/23/07						
Benzene	0.0519	0.00100	mg/kg wet	0.0500		104	80-120			
Toluene	0.0468	0.00100	"	0.0500		93.6	80-120			
Ethylbenzene	0.0456	0.00100	"	0.0500		91.2	80-120			
Xylene (p/m)	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (o)	0.0420	0.00100	"	0.0500		84.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.7*		*ug/kg*	*50.0*		*91.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*52.4*		"	*50.0*		*105*	*75-125*			
Calibration Check (EB72303-CCV1)				Prepared: 02/23/07 Analyzed: 02/24/07						
Benzene	44.2		ug/kg	50.0		88.4	80-120			
Toluene	40.8		"	50.0		81.6	80-120			
Ethylbenzene	40.6		"	50.0		81.2	80-120			
Xylene (p/m)	82.0		"	100		82.0	80-120			
Xylene (o)	40.0		"	50.0		80.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.3*		"	*50.0*		*82.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*43.0*		"	*50.0*		*86.0*	*75-125*			
Matrix Spike (EB72303-MS1)	**Source: 7B21003-01**			Prepared: 02/23/07 Analyzed: 02/26/07						
Benzene	0.0949	0.00200	mg/kg dry	0.103	ND	92.1	80-120			
Toluene	0.0854	0.00200	"	0.103	ND	82.9	80-120			
Ethylbenzene	0.0836	0.00200	"	0.103	ND	81.2	80-120			
Xylene (p/m)	0.171	0.00200	"	0.206	ND	83.0	80-120			
Xylene (o)	0.0837	0.00200	"	0.103	ND	81.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.2*		*ug/kg*	*50.0*		*80.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*46.0*		"	*50.0*		*92.0*	*75-125*			

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

Project: E K Queen 6 inch
Project Number: 2006-377
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 EB72303 - EPA 5030C (GC)										
Matrix Spike Dup (EB72303-MSD1)	**Source: 7B21003-01**			Prepared: 02/23/07 Analyzed: 02/26/07						
Benzene	0.0911	0.00200	mg/kg dry	0.103	ND	88.4	80-120	4.10	20	
Toluene	0.0844	0.00200	"	0.103	ND	81.9	80-120	1.21	20	
Ethylbenzene	0.0825	0.00200	"	0.103	ND	80.1	80-120	1.36	20	
Xylene (p/m)	0.170	0.00200	"	0.206	ND	82.5	80-120	0.604	20	
Xylene (o)	0.0824	0.00200	"	0.103	ND	80.0	80-120	1.61	20	
Surrogate: a,a,a-Trifluorotoluene	*42.1*		*ug/kg*	*50.0*		*84.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*45.1*		*"*	*50.0*		*90.2*	*75-125*			
Batch EB72312 - Solvent Extraction (GC)										
Blank (EB72312-BLK1)				Prepared: 02/23/07 Analyzed: 02/26/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*52.2*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*63.5*		*"*	*50.0*		*127*	*70-130*			
LCS (EB72312-BS1)				Prepared: 02/23/07 Analyzed: 02/26/07						
Carbon Ranges C6-C12	232	10.0	mg/kg wet	200		116	75-125			
Carbon Ranges C12-C28	192	10.0	"	200		96.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	424	10.0	"	400		106	75-125			
Surrogate: 1-Chlorooctane	*53.1*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.1*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (EB72312-CCV1)				Prepared: 02/23/07 Analyzed: 02/24/07						
Carbon Ranges C6-C12	240		mg/kg wet				80-120			
Carbon Ranges C12-C28	220		"				80-120			
Total Hydrocarbons	460		"				80-120			
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.4*		*"*	*50.0*		*123*	*70-130*			

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Plains All American EH & S
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Project: E K Queen 6 inch
Project Number: 2006-377
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 EB72312 - Solvent Extraction (GC)										
Matrix Spike (EB72312-MS1)	**Source: 7B23006-01**			Prepared: 02/23/07 Analyzed: 02/24/07						
Carbon Ranges C6-C12	609	10.0	mg/kg dry	543	ND	112	75-125			
Carbon Ranges C12-C28	518	10.0	"	543	ND	95.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1130	10.0	"	1090	ND	104	75-125			
Surrogate: 1-Chlorooctane	*52.2*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.3*		*"*	*50.0*		*109*	*70-130*			
Matrix Spike Dup (EB72312-MSD1)	**Source: 7B23006-01**			Prepared: 02/23/07 Analyzed: 02/24/07						
Carbon Ranges C6-C12	588	10.0	mg/kg dry	543	ND	108	75-125	3.64	20	
Carbon Ranges C12-C28	543	10.0	"	543	ND	100	75-125	4.71	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1130	10.0	"	1090	ND	104	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.4*		*mg/kg*	*50.0*		*125*	*70-130*			
Surrogate: 1-Chlorooctadecane	*59.6*		*"*	*50.0*		*119*	*70-130*			

Plains All American EH & S
1301 S. County Road 1150
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Project: E K Queen 6 inch
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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72401 - General Preparation (Prep)										
Blank (EB72401-BLK1)				Prepared: 02/23/07 Analyzed: 02/24/07						
% Solids	99.9		%							
Duplicate (EB72401-DUP1)	**Source: 7B23003-01**			Prepared: 02/23/07 Analyzed: 02/24/07						
% Solids	87.7		%		89.9			2.48	20	
Duplicate (EB72401-DUP2)	**Source: 7B23008-06**			Prepared: 02/23/07 Analyzed: 02/24/07						
% Solids	93.9		%		94.1			0.213	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: Celey D. Keene Date: 02/27/07

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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: E K QUEEN

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2006-377

Company Address: P. O. Box 301

Project Loc: Lea 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 #: 7B23007

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 Other	Analyze For: TCLP: TPH: 418.1 8015M	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	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
277994																												
-01	EXCV FLR			21-Feb-07	1430		1	X								SOIL	X							X				X
-02	N STCKPL			21-Feb-07	1500		1	X								SOIL	X							X				X
-03	S STCKPL			21-Feb-07	1515		1	X								SOIL	X							X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	23FEB07	0700	[illegible]	23 FEB 07	0700
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
[illegible]	23FEB07	15:04		2/23/07	1304

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: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 2/23/07 13:04

Lab ID #: 7B23007

Initials: DM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.0 °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

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: E K Queen 6 inch

Project Number: 2006-377

Location: Lea County, NM

Lab Order Number: 6L01017

Report Date: 12/08/06

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E S/W 6'	6L01017-01	Soil	11/29/06 10:00	12-01-2006 16:00
W S/W 6'	6L01017-02	Soil	11/29/06 10:15	12-01-2006 16:00
N S/W 6'	6L01017-03	Soil	11/29/06 10:30	12-01-2006 16:00
S S/W 6'	6L01017-04	Soil	11/29/06 10:45	12-01-2006 16:00
EXV FLR 12'	6L01017-05	Soil	11/29/06 11:00	12-01-2006 16:00

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Plains All American EH & S
1301 S. County Road 1150
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Project: E K Queen 6 inch
Project Number: 2006-377
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E S/W 6' (6L01017-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	**J [5.76]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.8 %*	*70-130*		"	"	"	"	
W S/W 6' (6L01017-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.0 %*	*70-130*		"	"	"	"	
N S/W 6' (6L01017-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	

Plains All American EH & S
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Project: E K Queen 6 inch
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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N S/W 6' (6L01017-03) Soil									
Carbon Ranges C12-C28	**49.2**	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**49.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.4 %*	*70-130*		"	"	"	"	
S S/W 6' (6L01017-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.8 %*	*70-130*		"	"	"	"	
EXV FLR 12' (6L01017-05) Soil									
Benzene	**J [0.00800]**	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	J
Toluene	**0.0318**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0580**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.102**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0695**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**389**	50.0	mg/kg dry	5	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	**7530**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**421**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**8340**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.7 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*18.5 %*	*70-130*		"	"	"	"	*S-06*

Plains All American EH & S	Project: E K Queen 6 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2006-377	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
E S/W 6' (6L01017-01) Soil									
% Moisture	**9.0**	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
W S/W 6' (6L01017-02) Soil									
% Moisture	**10.2**	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
N S/W 6' (6L01017-03) Soil									
% Moisture	**7.2**	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
S S/W 6' (6L01017-04) Soil									
% Moisture	**9.6**	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
EXV FLR 12' (6L01017-05) Soil									
% Moisture	**2.0**	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	

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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 EL60413 - Solvent Extraction (GC)										
Blank (EL60413-BLK1)				Prepared: 12/04/06 Analyzed: 12/05/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.9*		*"*	*50.0*		*106*	*70-130*			
LCS (EL60413-BS1)				Prepared: 12/04/06 Analyzed: 12/05/06						
Carbon Ranges C6-C12	453	10.0	mg/kg wet	500		90.6	75-125			
Carbon Ranges C12-C28	416	10.0	"	500		83.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	869	10.0	"	1000		86.9	75-125			
Surrogate: 1-Chlorooctane	*58.7*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.2*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (EL60413-CCV1)				Prepared: 12/04/06 Analyzed: 12/05/06						
Carbon Ranges C6-C12	209		mg/kg	250		83.6	80-120			
Carbon Ranges C12-C28	249		"	250		99.6	80-120			
Total Hydrocarbons	458		"	500		91.6	80-120			
Surrogate: 1-Chlorooctane	*51.6*		*"*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.4*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike (EL60413-MS1)	**Source: 6L01016-10**			Prepared: 12/04/06 Analyzed: 12/05/06						
Carbon Ranges C6-C12	705	10.0	mg/kg dry	640	ND	110	75-125			
Carbon Ranges C12-C28	636	10.0	"	640	ND	99.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1340	10.0	"	1280	ND	105	75-125			
Surrogate: 1-Chlorooctane	*74.3*		*mg/kg*	*100*		*74.3*	*70-130*			
Surrogate: 1-Chlorooctadecane	*78.1*		*"*	*100*		*78.1*	*70-130*			

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

Project: E K Queen 6 inch
Project Number: 2006-377
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 EL60413 - Solvent Extraction (GC)										
Matrix Spike Dup (EL60413-MSD1)	**Source: 6L01016-10**			Prepared: 12/04/06 Analyzed: 12/06/06						
Carbon Ranges C6-C12	656	10.0	mg/kg dry	640	ND	102	75-125	7.20	20	
Carbon Ranges C12-C28	593	10.0	"	640	ND	92.7	75-125	7.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1250	10.0	"	1280	ND	97.7	75-125	6.95	20	
Surrogate: 1-Chlorooctane	*70.8*		*mg/kg*	*100*		*70.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*71.2*		*"*	*100*		*71.2*	*70-130*			
Batch EL60512 - EPA 5030C (GC)										
Blank (EL60512-BLK1)				Prepared & Analyzed: 12/05/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*47.2*		*ug/kg*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.9*		*"*	*40.0*		*112*	*80-120*			
LCS (EL60512-BS1)				Prepared & Analyzed: 12/05/06						
Benzene	1.16	0.0250	mg/kg wet	1.25		92.8	80-120			
Toluene	1.20	0.0250	"	1.25		96.0	80-120			
Ethylbenzene	1.45	0.0250	"	1.25		116	80-120			
Xylene (p/m)	2.51	0.0250	"	2.50		100	80-120			
Xylene (o)	1.14	0.0250	"	1.25		91.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.6*		*ug/kg*	*40.0*		*99.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*40.0*		*108*	*80-120*			

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

Project: E K Queen 6 inch
Project Number: 2006-377
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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 EL60512 - EPA 5030C (GC)										
Calibration Check (EL60512-CCV1)				Prepared & Analyzed: 12/05/06						
Benzene	44.9		ug/kg	50.0		89.8	80-120			
Toluene	43.7		"	50.0		87.4	80-120			
Ethylbenzene	44.2		"	50.0		88.4	80-120			
Xylene (p/m)	85.4		"	100		85.4	80-120			
Xylene (o)	43.4		"	50.0		86.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.7*		"	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.0*		"	*40.0*		*85.0*	*80-120*			
Matrix Spike (EL60512-MS1)		**Source: 6L01016-01**		Prepared: 12/05/06 Analyzed: 12/06/06						
Benzene	1.15	0.0250	mg/kg dry	1.26	ND	91.3	80-120			
Toluene	1.10	0.0250	"	1.26	ND	87.3	80-120			
Ethylbenzene	1.33	0.0250	"	1.26	ND	106	80-120			
Xylene (p/m)	2.11	0.0250	"	2.53	ND	83.4	80-120			
Xylene (o)	1.02	0.0250	"	1.26	ND	81.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.4*		*ug/kg*	*40.0*		*83.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.2*		"	*40.0*		*88.0*	*80-120*			
Matrix Spike Dup (EL60512-MSD1)		**Source: 6L01016-01**		Prepared: 12/05/06 Analyzed: 12/06/06						
Benzene	1.30	0.0250	mg/kg dry	1.26	ND	103	80-120	12.0	20	
Toluene	1.29	0.0250	"	1.26	ND	102	80-120	15.5	20	
Ethylbenzene	1.36	0.0250	"	1.26	ND	108	80-120	1.87	20	
Xylene (p/m)	2.46	0.0250	"	2.53	ND	97.2	80-120	15.3	20	
Xylene (o)	1.23	0.0250	"	1.26	ND	97.6	80-120	18.6	20	
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*ug/kg*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		"	*40.0*		*92.2*	*80-120*			

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

Project: E K Queen 6 inch
Project Number: 2006-377
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL60505 - General Preparation (Prep)										
Blank (EL60505-BLK1)				Prepared: 12/04/06 Analyzed: 12/05/06						
% Solids	99.8		%							
Duplicate (EL60505-DUP1)	**Source: 6L04005-01**			Prepared: 12/04/06 Analyzed: 12/05/06						
% Solids	95.7		%		96.5			0.832	20	
Duplicate (EL60505-DUP2)	**Source: 6L01019-01**			Prepared: 12/04/06 Analyzed: 12/05/06						
% Solids	94.4		%		95.0			0.634	20	
Duplicate (EL60505-DUP3)	**Source: 6L01019-21**			Prepared: 12/04/06 Analyzed: 12/05/06						
% Solids	95.2		%		95.3			0.105	20	
Duplicate (EL60505-DUP4)	**Source: 6L04012-11**			Prepared: 12/04/06 Analyzed: 12/05/06						
% Solids	99.7		%		99.7			0.00	20	

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

Project: E K Queen 6 inch
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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 12/8/2006

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 PAGE 01 OF 01

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-24124 Fax No: (505) 396-1429

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

Project Name: E K Queen 6-Inch

Project #: 2006-377

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

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

(lab use only)
ORDER #: 620197

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 Other	Analyze For: TCLP: TPH: 418.1 (8015B)	TOTAL: 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	E S/W 6'			29-Nov-06	1000		1	X								SOIL			X									X				X
02	W S/W 6'			29-Nov-06	1015		1	X								SOIL			X									X				X
03	N S/W 6'			29-Nov-06	1030		1	X								SOIL			X									X				X
04	S S/W 6'			29-Nov-06	1045		1	X								SOIL			X									X				X
05	EXV FLR 12'			29-Nov-06	1100		1	X								SOIL			X									X				X

Special Instructions:
Run BTEX on EXV FLR sample if TPH is less than 1000 ppm

RG

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	30 Nov 06	1630	Linda Blackwood	Nov. 30, 06	4:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Linda Blackwood	Dec 1, 06	4:00	Carin Ivey	12/1/06	4:00

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: 12/1/06 4:00

Lab ID #: 41-0107

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.0 °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

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES, LLC
ATTN: KEN DUTTON
P.O. BOX 301
LOVINGTON, NM 88260
FAX TO: (505) 396-1429

Receiving Date: 04/03/07
Reporting Date: 04/04/07
Project Number: 2006-377
Project Name: E.K. QUEEN
Project Location: LEA COUNTY, NM

Sampling Date: 04/02/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	04/03/07	04/03/07	04/03/07	04/03/07	04/03/07	04/03/07
H12416-1 SCREENED SOIL	<10.0	428	<0.005	<0.005	<0.005	0.139
Quality Control	770	794	0.098	0.102	0.096	0.278
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	96.3	99.2	97.6	102	95.7	92.7
Relative Percent Difference	0.8	4.5	7.1	4.4	1.5	1.3

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess J. A. Cooke, Ph. D.

4/4/07
Date

H12416

CARDINAL LABORATORIES

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

101 East Marland
Hobbs, New Mexico 88240
Phone: 505-393-2326
Fax: 505-393-2476

Project Manager: Ken Dutton PAGE 01 OF 01 Project Name: E K QUEEN

Company Name: Basin Environmental Service Technologies, LLC Project #: 2006-377

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - C. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Linda Blackwood e-mail: kad@basinenv.com

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Screened	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Sol	NP = Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: 8015B 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
H12416-1	Screened Soil			2-Apr-07	1545		1	X								SOIL			X								X					X

Special Instructions:
EMAIL RESULTS: kdutton@basinenv.com & cjreynolds@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Linda Blackwood	4-3-07	1150	Nick Fullert	4-3-07	12:00PM
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Cardinal::	Date	Time

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	(Y)	N
by Sampler/Client Rep. ?	(Y)	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: Cool °C

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 Pipeline	Contact Camille Reynolds
Address 3112 West US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name EK Queen 6"	Facility Type 6"Steel Pipeline

Surface Owner State Land Office	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
L	7	18S	35E					Lea

Latitude 32° 45'38.2" **Longitude** 103° 30'13.5"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 barrels	Volume Recovered 0 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 11/10/2006 @ 11:00	Date and Hour of Discovery 11/10/2006 @ 11:49
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 11/10/2006 @ 15:55	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Received NOV 2006 Hobbs OCD

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion of the 6" steel pipeline resulted in release of sweet crude oil. A line clamp was installed to mitigate the release. The line is a 6 inch steel transmission pipeline that produces approximately 430 barrels of crude oil per day. The pressure on the line is 120 psi and the gravity of the sweet crude oil is 40.2. The sweet crude has an H_2S content of <10 ppm. Line depth is approximately 6 inches below ground surface.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 450 square 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

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 11/13/2006 Phone:505-441-0965

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

PLAINS ALL AMERICAN

Lea Station Land Farm
PERMIT #GW-351

CERTIFICATE OF "NON-EXEMPT" WASTE STATUS
AND
TRANSPORTER MANIFEST AND CHAIN-OF-CUSTODY

COMPANY PLAINS MARKETING

ORIGIN UL OR ¼¼: UL-L SECTION: 7 TOWNSHIP: T18S RANGE:R35E

SOURCE DESCRIPTION EK QUEEN 6"STEEL PIPELINE REF#2006-377

AS A CONDITION OF ACCEPTANCE FOR DISPOSAL, I HEREBY CERTIFY THAT THIS WASTE IS A **NON-EXEMPT** WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) JULY 1988 REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR PART 261 SUBPART C AND HAS NOT BEEN COMINGLED WITH AN EPA 40 CFR PART 261 SUBPART D "LISTED WASTE." LIKEWISE, THIS WASTE DOES NOT CONTAIN NATURALLY OCCURRING RADIOACTIVE MATERIAL (NORM) PURUSANT TO 20 NMAC 3.1 SUBPART 1403 AND CONTAINS NO FREE LIQUID PURSUANT TO THE "PAINT FILTER TEST" EPA METHOD 9095A.

NORM EXPOSURE RATE: 13 µR/HR

I, CAMILLE REYNOLDS, THE UNDERSIGNED AGENT FOR, PLAINS ALL AMERICAN, HEREBY CERTIFY THAT, BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT.

NAME CAMILLE REYNOLDS
TITLE ENVIRONMENTAL COORDINATOR
ADDRESS 3112 WEST US HWY 82
LOVINGTON, NEW MEXICO 88260
SIGNATURE Camille Reynolds
DATE 11/27/2006

TRANSPORTATION MANIFEST AND CHAIN-OF-CUSTODY

Transporting Co.: _____	Driver Signature: _____
Volume: _____ yd^3	Signature Date: _____
Plains All American Lea Station Landfarm Attendant Signature _____	
Signature Date:	

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☒ No ☐	4. Generator **Plains Pipeline** 5. Originating Site **EK Queen 6" Steel Pipeline ref#2006-377**
2. Management Facility Destination: Plains All American Lea Station Land Farm #GW-351	6. Transporter
3. Address of Facility Operator: Environmental Plus, Inc.	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	**UL- L, NW¼ of the SW¼ of Section 7 T18S R35E**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.
All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

Estimated Volume __100__cy Known Volume (to be entered by the operator at the end of the haul) _____cy

SIGNATURE Camille Reynolds TITLE: Environmental Coordinator DATE: 11/27/2006
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Camille Reynolds TELEPHONE NO. 505-441-0965

(This space for State Use)

APPROVED BY: Pat Caperton TITLE: Compliance Officer DATE: 11/27/06

APPROVED BY: _____ TITLE: _____ DATE: _____

PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands
310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

February 19, 2007

Camille Reynolds
Plains All American
P.O. Box 4648
Houston, TX 77210-4648

Re: **RW-22973, ROE-1471, RIGHT-OF-ENTRY – PIPELINE**
Plains All American, EK Queen 6" Site SITE
UL G, Sec 20, TWP 18S, RNG 34E
LEA County, NM

Dear Ms. Camille Reynolds:

The New Mexico State Land Office (Land Office) has approved ROE-1471 for the above referenced site. It is the understanding of the Land Office that the right-of-entry easement will be utilized for the purposes of conducting a site investigation and performing remediation/reclamation. Following completion of the remediation please utilize the following reclamation/reseeding requirements for the site:

1. All surface disturbances on the easement shall be reclaimed to NMSLO reclamation requirements. These requirements satisfy New Mexico Administrative Code (NMAC) rule requirements where State Land Office Land Use Specialist (SLO LUS) recommendations are required. These requirements include:
    a. Removal of all trash, debris, and obsolete equipment.
    b. Removal of all rock in excess of 2" in diameter at the ground surface.
    c. In the event that suitable topsoil has not been stockpiled on the site NMSLO recommends a minimum of four (4) inches of suitable clean topsoil shall be placed over all areas to be revegetated. Top soil shall not be "borrowed" from the site. The NMSLO recommends top soil is obtained from an area or vendor in a manner that does not cause further disturbance to surface resources. The addition of fertilizer or mulch is not required but recommended.
    d. Initial reseeding of the area. Seed drilling is recommended over broadcast seeding. If broadcast seeding occurs, double the proposed seeding rate. Seed should be planted one half to one inch in depth. Seed mixture recommendations are attached in the document titled PECOS_DISTRICT_SeedMix_HP3_CP2.
    e. Seeding shall occur between late July and late September, with the intention of reseeding immediately prior to summer monsoons.
    f. Photo documentation submission of the site before, during and after each and all activities performed at the site (excavation, fertilizer placement, topsoil, revegetation, etc.).
2. A copy of the closure approval letter from the NMOCD shall be provided to the NMSLO.

Five working days prior to initiating the reseeding you are required to notify the NMSLO District Resource Manager (DRM) office in Hobbs at (505) 392-8736, of your scheduled dates for reseeding.

Contingent upon meeting the closure requirements listed above, the right-of-entry easement will be eligible for termination two years following initial reseeding efforts. A field inspection by the NMSLO will occur following the first growing season. In the event that the inspection determines that reseeding efforts have failed, you will be required to reseed prior to the two year termination date.

Contact me at (505) 827-5723 with any questions your company may have regarding closure requirements. For all other questions regarding the right-of-entry easement, please contact Melissa Armijo in the Grazing and Rights-of-Way Division at (505) 827-5710.

The State Land Office appreciates the opportunity to work with Plains All American in performing successful remediation on trust lands.

Sincerely,

Thaddeus Kostrubala, Environmental Engineer
Field Operations Division
New Mexico State Land Office

Cc: Anna Villa, NMSLO
Jim Norwick, NMSLO

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

NOV 2006
Received
Hobbs
OCD

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 Pipeline	Contact Camille Reynolds
Address 3112 West US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name EK Queen 6"	Facility Type 6"Steel Pipeline

Surface Owner State Land Office	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
L	7	18S	35E					Lea

98'GW

Latitude 32° 45'38.2" Longitude 103° 30'13.5"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 barrels	Volume Recovered 0 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 11/10/2006 @ 11:00	Date and Hour of Discovery 11/10/2006 @ 11:49
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 11/10/2006 @ 15:55	
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.* Internal corrosion of the 6" steel pipeline resulted in release of sweet crude oil. A line clamp was installed to mitigate the release. The line is a 6 inch steel transmission pipeline that produces approximately 430 barrels of crude oil per day. The pressure on the line is 120 psi and the gravity of the sweet crude oil is 40.2. The sweet crude has an H_2S content of <10 ppm. Line depth is approximately 6 inches below ground surface.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 450 square 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

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 11/13/2006 Phone: 505-441-0965

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRO ENGR

Approval Date: 11.18.06 Expiration Date: 2.18.07

Conditions of Approval: SUBMIT FINAL C-141

Attached ☐

* Attach Additional Sheets If Necessary

Facility fPAC0633336435
Incident-nPAC0633336517

RP#1125
application-pPAC0633336623

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

1RP-1125

OPERATOR

☐ Initial Report XX Final Report

Name of Company Plains Marketing, L. P.	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. (505) 441-0965
Facility Name **E K QUEEN 6-INCH** **SRS: 2006-377**	Facility Type 6" Steel Pipeline

Surface Owner State Land Office	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
L	7	18S	35E					Lea

Latitude 32°, 45', 38.2" North **Longitude** 103°, 30', 13.5" West.

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 barrels	Volume Recovered 0 barrels
Source of Release 6-inch Steel Pipeline	Date and Hour of Occurrence 10 November 2006 @ 1100	Date and Hour of Discovery 10 November 2006 @ 1100
Was Immediate Notice Given? XX Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 10 November 2006 @ 1355	
Was a Watercourse Reached? ☐ Yes XX☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion of the 6" steel pipeline resulted in release of sweet crude oil. A clamp was installed on the pipeline to mitigate the release. The line is a 6-inch steel transmission pipeline that produces approximately 430 barrels of crude per day. The pressure on the line is approximately 120 psi and the gravity of the sweet crude oil is 40.2. The sweet crude has an H2S content of <10 ppm. The line is approximately 6-inches bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The crude oil release site was excavated; the impacted soil placed on a poly-liner adjacent to the excavation, confirmation soil samples were collected from the floor and walls of the excavation. Once the excavation confirmation soil samples were below NMOCD regulatory standards; approximately 200 cubic yards of stockpiled soils were transported to LSLF, approximately 500 cubic yards were mechanically screened and the site was backfilled with mechanically screened caliche rock and soil and contoured to the original rangeland topography.

SEE ATTACHED BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES PRELIMINARY SITE INVESTIGATION REPORT & CLOSURE REQUEST, DATED 01 MAY 2007, WITH ATTACHMENTS FOR DETAILS OF REMEDIAL ACTIVITIES CONDUCTED.

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: ENVIRO ENGR
Title: Remediation Coordinator	Approval Date: 5.7.07 Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: Attached ☐
Date: 07 May 2007 Phone: (505) 441-0965	

MAY 2007 Received Hobbs OCD