

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-1297

OPERATOR

☐ Initial Report ☒ 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	SKIPPY HORN	Facility Type	4" Steel Pipeline
SRS:	2007-122		

Surface Owner New Mexico State Land Office	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	30	20S	37E					Lea

Latitude 32°, 32', 26.0" North Longitude 103°, 17', 34.8" West.

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	52 barrels	Volume Recovered	0 barrels
Source of Release	4-inch Steel Pipeline	Date and Hour of Occurrence	05 April 2007 @ 0745	Date and Hour of Discovery	05 April 2007 @ 0800
Was Immediate Notice Given?	XX Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Pat Caperton (Richards)		
By Whom?	Camille Reynolds	Date and Hour	23 April 2007 @ 0800		
Was a Watercourse Reached?	<input type="checkbox"/> Yes XX <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* At some time in the past, an unknown party removed a piece of the 4-inch steel pipeline leaving the pipeline open ended. The 4-inch tie-in & check valve for the Skippy Horn Pipeline into the Eunice Booster Pipeline was closed; however, it apparently allowed seepage to enter the idled 4-inch pipeline causing a limited flow of crude oil to enter the line, which seeped for an unknown period of time. A blind was installed at the tie-in valve to ensure the valve was isolated. Line idled; therefore, pressure and volume are not applicable.

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 500 cubic yards of stockpiled soils (<1000 mg/kg TPH) were utilized as backfill material and the site contoured to the original surrounding rangeland topography.

SEE ATTACHED BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES CLOSURE REQUEST, DATED 31 OCTOBER 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: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION		
Printed Name: Camille Reynolds	Approved by District <i>Johnson</i> ENVIRONMENTAL ENGINEER		
Title: Remediation Coordinator	Approval Date: 11-8-07	Expiration Date: _____	
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: _____		Attached <input type="checkbox"/>
Date: 01 November 2007	Phone: (505) 441-0965		

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side of form

29
CLOSURE 9.6.07
BACKFILL APPROVED

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds	
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965	
Facility Name Skippy Horn	Facility Type 4" Steel Pipeline	
Surface Owner SLO	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter N	Section 30	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32° 32' 26.0" Longitude 103° 17' 34.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 52 barrels	Volume Recovered 0 barrels
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 04/05/2007 @ 7:45	Date and Hour of Discovery 04/05/2007 @ 8:00
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 04/23/2007 @ 8:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken: At some time in the past an unknown party removed a piece of the idle 4-inch steel pipeline leaving the pipeline open ended. The 4-inch tie-in & check valve for the Skippy Horn Pipeline into the Eunice Booster 6" Pipeline was closed, however; it apparently allowed seepage to enter the idled 4-inch pipeline causing a limited flow of crude oil to enter the line, which seeped for an unknown period of time. A blind was installed at the tie-in valve to ensure the valve is isolated. Line idled, therefore, pressure and volume is not applicable.

Describe Area Affected and Cleanup Action Taken.* The initial visual impacted area was approximately 8 feet long by 8 feet wide. At that time the crude oil release was deemed to be a non-reportable release. Upon further excavation of the release area, it was determined to elevate the crude oil release to a reportable status. The impacted soil is being stockpiled on site on a 6-mil poly liner.

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: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor: <i>[Signature]</i>	
Title: Remediation Coordinator	Approval Date: 4.25.07	Expiration Date: 6.25.07
E-mail Address: cgreynolds@paalp.com	Conditions of Approval: DELINERATION & PLAN BY	Attached <input type="checkbox"/>
Date: 02/24/2007	Phone: 505-441-0965	

* Attach Additional Sheets If Necessary

Facility - PACO711549051
Incident - PACO711549134
Application - PACO711549246

RP#1297

Basin Environmental Service Technologies, LLC

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



31 October 2007

Mr. Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, New Mexico 88240



Re: Closure Request, Skippy Horn (231735)
 Plains Marketing, L. P. Preliminary Site Investigation Report and Remediation
 Plan, dated 05 September 2007
 Unit N (SE ¼, SW ¼) Section 30, Township 20 South, Range 37 East
 Lea County, New Mexico
 Plains SRS Number: 2007-122
 NMOCD File Number: 1RP-1297
 NMSLO Number: ROE-1546

Dear Mr. Johnson:

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L. P. (Plains), is submitting this request for closure of the Skippy Horn remediation site at the above referenced location. Soil remediation activities were successfully accomplished as proposed in the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) approved Preliminary Site Investigation Report and Remediation Plan, dated 05 September 2007.

Basin, at the request of Plains, mobilized to a crude oil pipeline release on 05 April 2007, located on the idled Skippy Horn Pipeline after Plains operations personnel contained the crude oil release by cold cutting and installing a pipeline bull plug. Additionally, a pipeline blind was installed at the tie-in valve to ensure there would be no further seepage into the idled Skippy Horn Pipeline. Upon arrival at the release site, Basin initiated excavation of the release point and flow path area with the impacted soil stockpiled on a 6-mil poly-liner adjacent to the site. Initially, the crude oil release was deemed to be non-reportable; however, after excavation activities were initiated, the crude oil leak was elevated to reportable status and appropriate notifications were accomplished by Plains. As reported on the initial C-141, dated 24 April 2007, approximately 52 barrels of crude

oil were released and 0 barrels were recovered. The NMOCD ranking criteria for the Skippy Horn release site was 10-19, which sets the soil remediation levels for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO) at 10 mg/kg for benzene, 50 mg/kg for total BTEX and 1000 mg/kg for TPH-GRO/DRO.

The following NMOCD and NMSLO approved remedial activities were accomplished at the Sippy Horn release site:

- In April and May 2007, Basin conducted excavation activities at the release point and flow path area. The final dimensions of the excavated area were approximately 50 feet long by 30 feet wide and approximately 10 feet below ground surface (bgs). The impacted soils were placed on a 6-mil poly-liner adjacent to the excavation for future remedial activities. Approximately 500 cubic yards of impacted soil were excavated and stockpiled on-site. See attached Figure 2, Excavation Site Map.
- On 18 July 2007, five (5) confirmation soil samples were collected from the floor and walls of the excavated area ranging in depth from 5 to 10 feet bgs (see Figure 3). The five (5) confirmation soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results of the confirmation soil samples collected from the floor and walls of the excavation indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits for three (3) soil samples and were reported below NMOCD regulatory standards for the remaining two (2) soil samples. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO were not detected above laboratory detection limits for four (4) soil samples and were reported below NMOCD regulatory standards for the remaining soil sample.
- On 14 Aug 2007, one (1) soil boring was installed to evaluate the vertical extent of crude oil impact. The soil boring was installed on the excavation floor adjacent to the release point at approximately ten (10) feet bgs and soil samples were collected at five (5) feet intervals. The soil boring was installed to a true subsurface depth of approximately 45 feet bgs. Soil samples collected at 5, 10, 20, 30 and 35 feet bgs were submitted for analysis. Laboratory results indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits for the five (5) soil samples. Based on the results of the five (5) confirmation soil samples and the soil boring, no further excavation was warranted.
- On 23 August 2007, a confirmation soil sample was collected from the on-site stockpiled material. Laboratory results indicated that constituent concentrations of BTEX and TPH-GRO/DRO were reported significantly below the NMOCD ranking thresholds for the Skippy Horn release site. Based on the soil sample results, blending of the stockpiled material was not warranted.

- A Preliminary Site Investigation Report and Remediation Plan, dated 05 September 2007, was submitted to NMOCD Hobbs District I and NMSLO and subsequently approved. The approved plan included no further excavation activities based on laboratory results from soil sampling and drilling activities and utilizing the on-site stockpiled material as backfill. Upon completion of backfilling the excavation, contour the excavation to the surrounding rangeland topography and reseed the site with approved NMSLO grass seed.
- In September and October 2007, backfilling of the excavated area was accomplished and the excavation contoured to the surrounding rangeland topography. Reseeding activities will be accomplished as stipulated in the approved NMSLO Restoration Plan, dated 20 June 2007.

The remediation activities were completed in accordance with the NMOCD and NMSLO approved Plains Marketing, L. P., Preliminary Site Investigation Report and Remediation Plan, dated 05 September 2007. Based on the results of the NMOCD and NMSLO approved remediation activities conducted at the Skippy Horn release site, Basin, on behalf of Plains, requests that the NMOCD consider the soil issue at this site eligible for closure under the *New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases (1993)*.

Should you have any questions or comments, please contact me at (505) 441-2124.

Sincerely,



Ken Dutton
Basin Environmental Services

Attachments: Table 1, Soil Chemistry Results
Figure 2, Excavation Site Map
Figure 3, Excavation Site Map & Soil Boring & Soil Sampling Locations
Digital Photos
NMOCD C-141 (Initial)
NMOCD C-141 (Final)

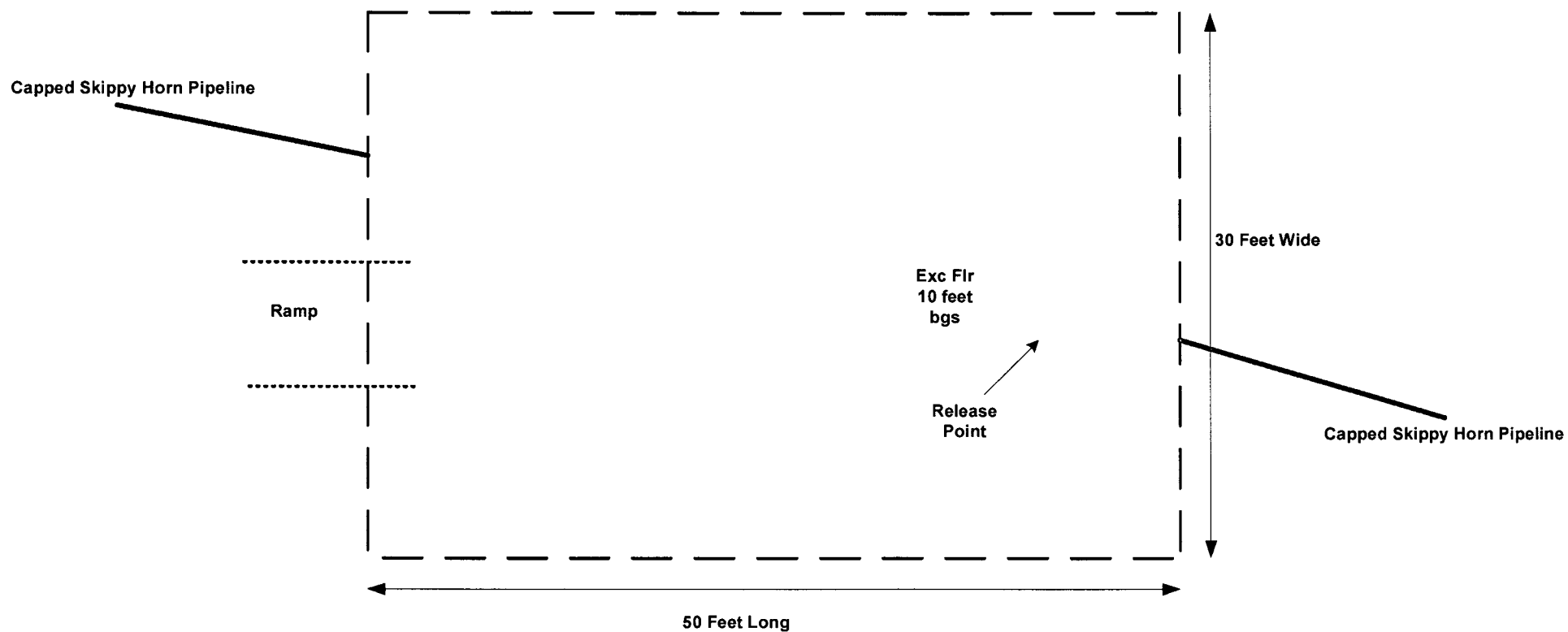
cc: Mr. Thaddeus Kostrobala (NMSLO, Santa Fe, NM)

TABLE 1

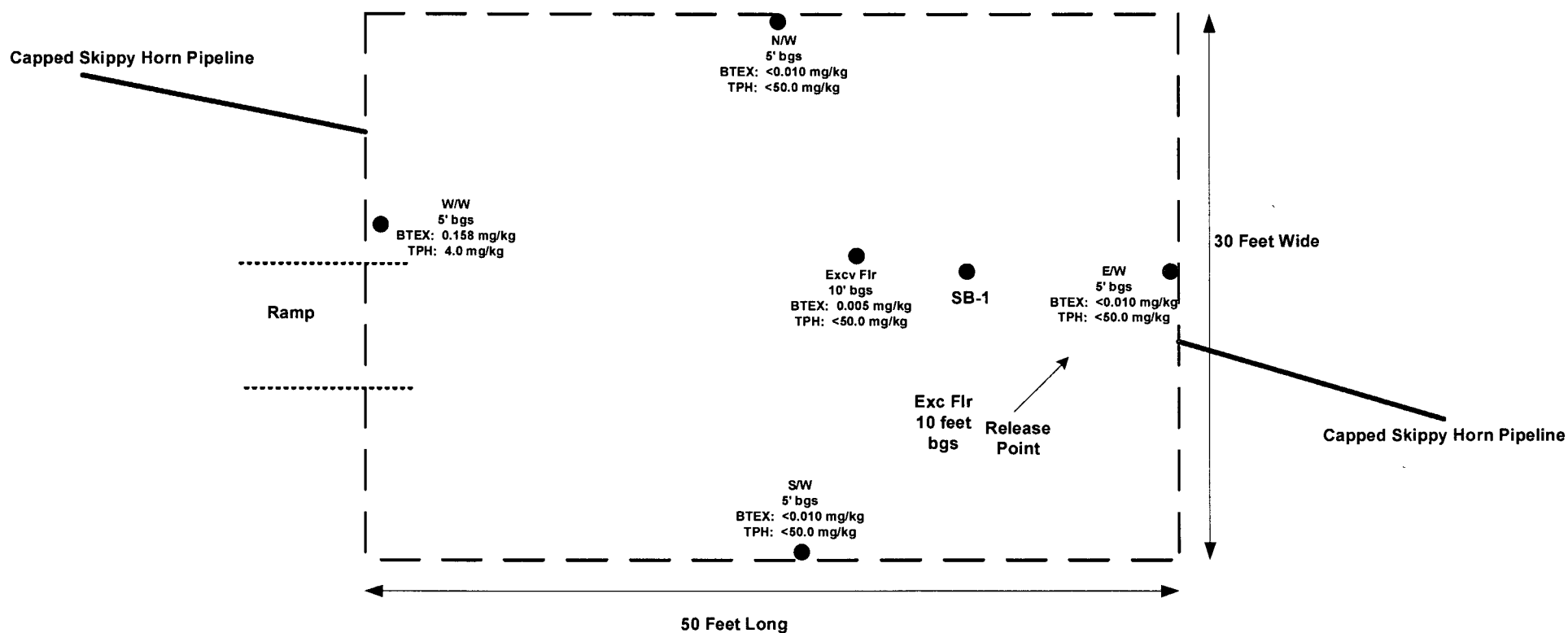
SOIL CHEMISTRY RESULTS

PLAINS MARKETING, L.P.
 SKIPPY HORN
 LEA COUNTY, NEW MEXICO
 SRS: 2007-122

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	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)
S/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
E/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
W/W	5' bgs	07/18/07	In-Situ	<0.010	0.032	0.030	0.096	<0.010	<50	3.71	4
N/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
Excv Flr	10' bgs	07/18/07	In-Situ	0.010	0.010	0.010	0.010	0.010	<50	<1	<50
Stockpile	N/A	07/18/07	Stockpile	<0.010	0.044	0.041	0.179	<0.010	127	9.97	137
SB-1 5'	15' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 10'	20' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 20'	30' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 30'	30' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 35'	45' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
Stockpile	N/A	08/23/07	Stockpile	<0.010	0.899	<0.010	1.11	<0.010	239	169	408
NMOCD Criteria				10	TOTAL BTEX 50						1000



TITLE	Figure 2 Excavation Site Map
DESCRIPTION	Plains Marketing, L.P. Skippy Horn SE/SW S30, T20S, R37E Lea County, New Mexico SRS: 2007-122
DRAWN BY	Basin Environmental Services kad

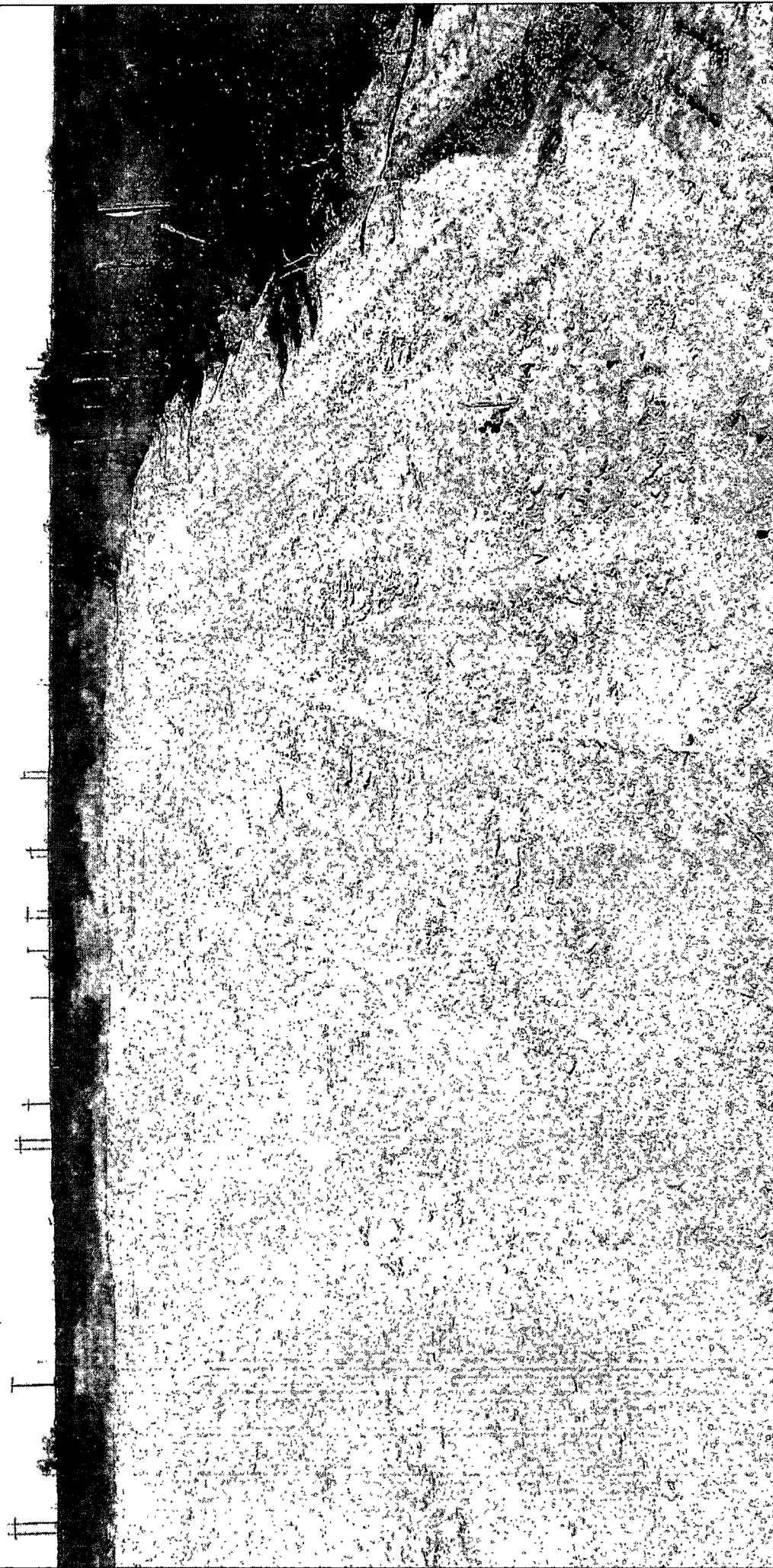


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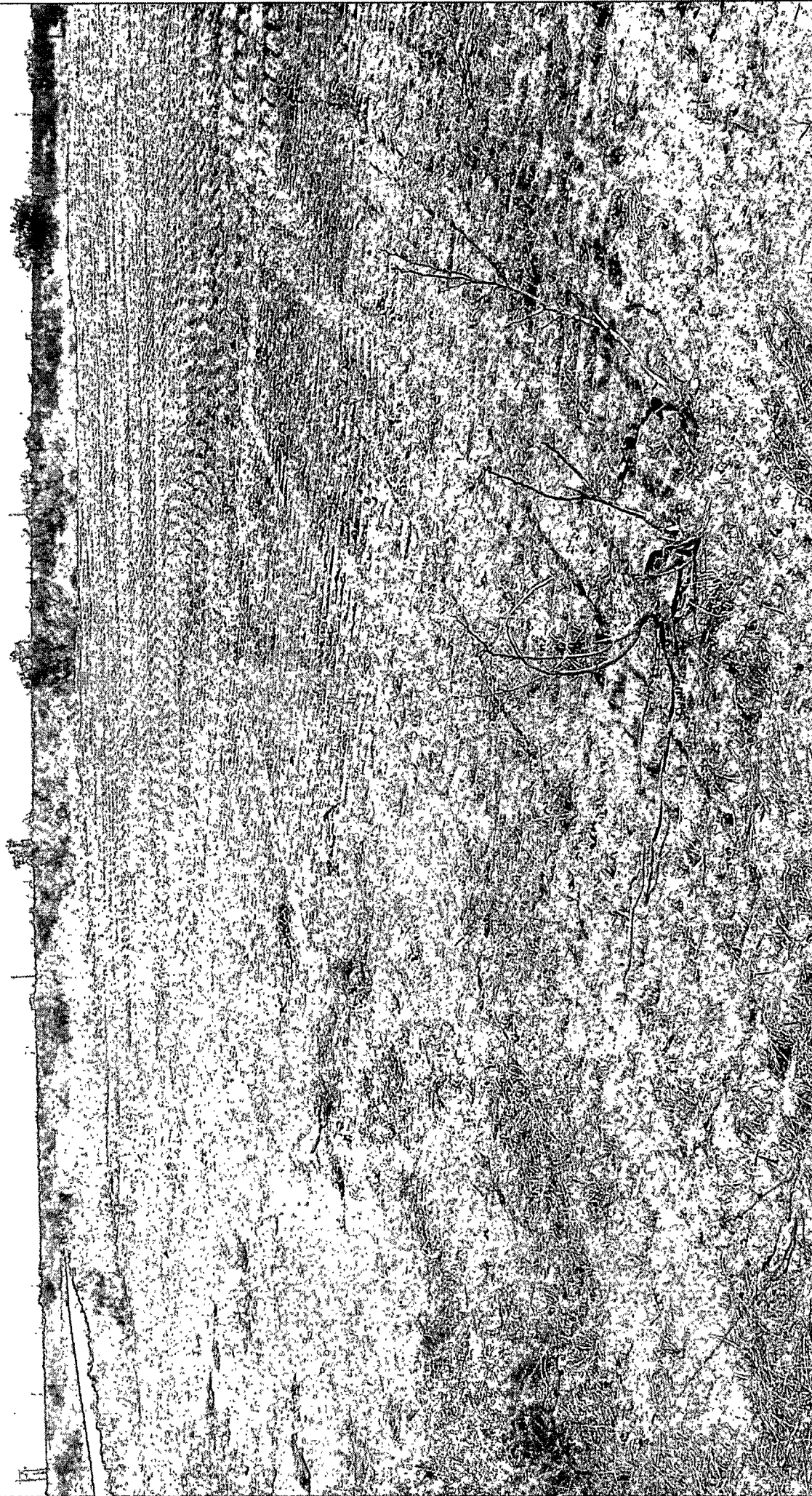
- Soil Boring Location
- Soil Sampling Locations

TITLE	Figure 3 Excavation Site Map & Soil Boring & Soil Sampling Locations
DESCRIPTION	Plains Marketing, L.P. Skippy Horn SE/SW S30, T20S, R37E Lea County, New Mexico SRS: 2007-122
DRAWN BY	Basin Environmental Services kad

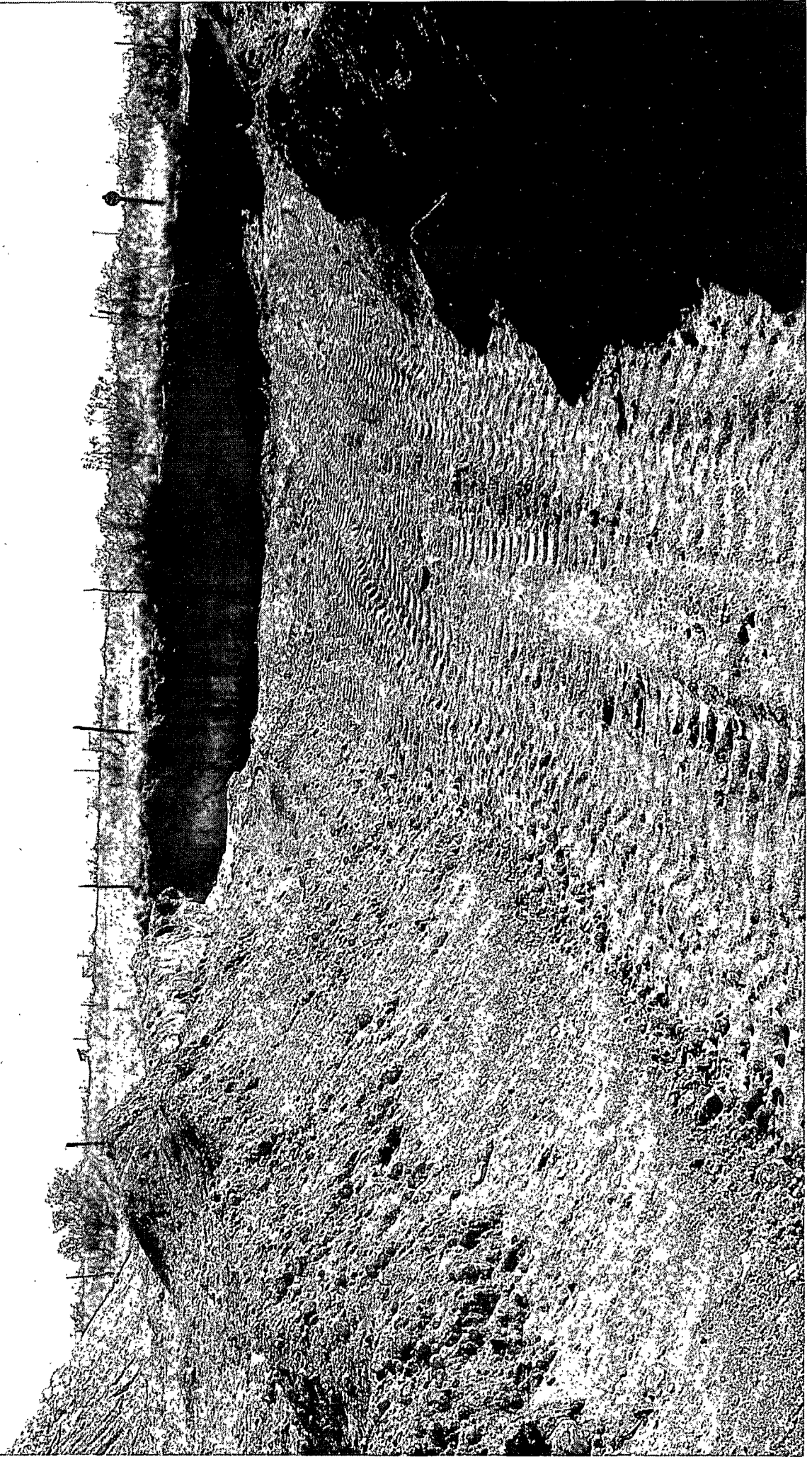
Plains Marketing, L. P.
Skippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122



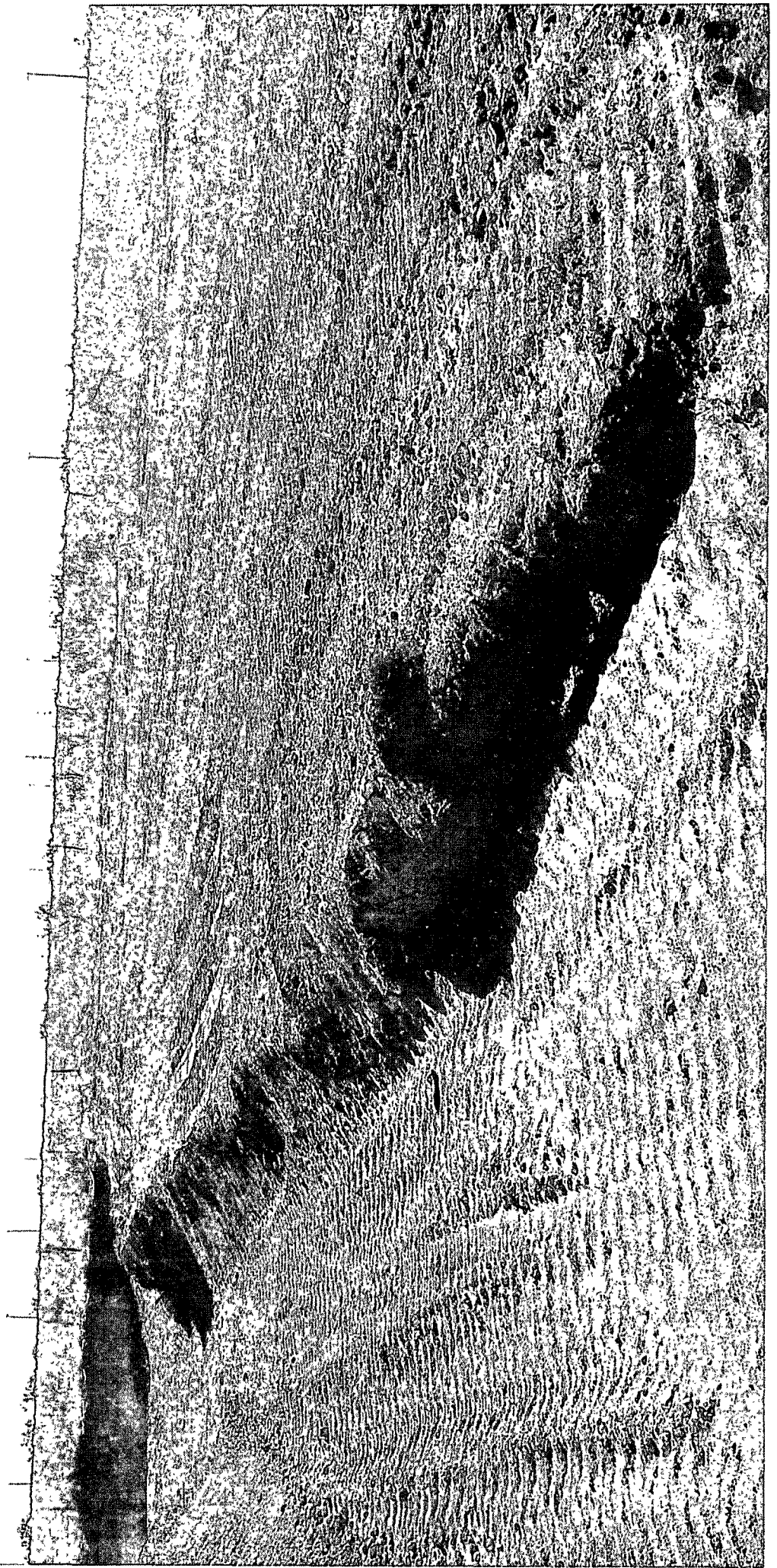
Plains Marketing, L. P.
Skippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122



Plains Marketing, L. P.
Skippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122



Plains Marketing, L. P.
Skippy Horn
SE/SW S30, T20S, R37E
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Revised October 10, 2003

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District Office in accordance
with Rule 116 on back
side of form

29
CLOSURE 9.6.07
BACKFILL APPROVED

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Skippy Horn	Facility Type 4" Steel Pipeline

Surface Owner SLO	Mineral Owner	Lease No.
-------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter N	Section 30	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32° 32' 26.0" Longitude 103° 17' 34.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 52 barrels	Volume Recovered 0 barrels
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 04/05/2007 @ 7:45	Date and Hour of Discovery 04/05/2007 @ 8:00
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 04/23/2007 @ 8:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken: At some time in the past an unknown party removed a piece of the idle 4-inch steel pipeline leaving the pipeline open ended. The 4-inch tie-in & check valve for the Skippy Horn Pipeline into the Eunice Booster 6" Pipeline was closed, however, it apparently allowed seepage to enter the idled 4-inch pipeline causing a limited flow of crude oil to enter the line, which seeped for an unknown period of time. A blind was installed at the tie-in valve to ensure the valve is isolated. Line idled, therefore, pressure and volume is not applicable.

Describe Area Affected and Cleanup Action Taken.* The initial visual impacted area was approximately 8 feet long by 8 feet wide. At that time the crude oil release was deemed to be a non-reportable release. Upon further excavation of the release area, it was determined to elevate the crude oil release to a reportable status. The impacted soil is being stockpiled on site on a 6-mil poly liner.

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: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor <i>[Signature]</i>	
Title: Remediation Coordinator	Approval Date: 4-25-07	Expiration Date: 6-25-07
E-mail Address: cgreynolds@paalp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 02/24/2007	Phone: 505-441-0965	DECLARATION & PLAN BY <i>[Signature]</i>

* Attach Additional Sheets If Necessary

Facility # PACO711549051
Incident # PACO711549134
Application # PACO711549246

RP#1297

Basin Environmental Service Technologies, LLC

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



PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION PLAN

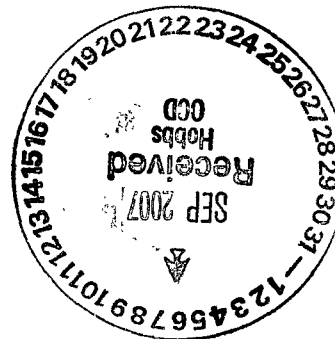
**PLAINS MARKETING, L.P. (231735)
Skippy Horn
Lea County, New Mexico
Plains SRS # 2007-122**

**UNIT N (SE/SW), Section 30, Township 20 South, Range 37 East
Latitude 32°, 32', 26.0" North, Longitude 103°, 17', 34.8" West
NMOCD File Number: 1RP-1297**

Prepared For:



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



Prepared By:

Basin Environmental Service Technologies, LLC

05 September 2007

Ken Dutton

Basin Environmental Service Technologies, LLC

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Figure 2:	Excavation Site Map
Figure 3:	Excavation Site Map – Soil Sampling & Soil Boring Locations
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Appendices

Appendix A:	New Mexico Office of the State Engineer Water Well Database Report
Appendix B:	Trace Analysis Analytical Results
Appendix C:	New Mexico State Land Office ROE-1546 (20 June 2007)
Appendix D:	Initial NMOCD C-141

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a crude oil release for Plains Marketing, L.P. (Plains), located at the idled Skippy Horn Pipeline on 05 April 2007. The idled Skippy Horn Pipeline crude oil release was contained by Plains operations personnel by cold cutting the pipeline and installing a pipeline bull plug. Basin initiated excavation of the impacted soil which was stockpiled adjacent to the excavation on a 6-mil poly-liner. The Skippy Horn Pipeline is located on land owned by the State of New Mexico.

This site is located in Unit N (SE¼/SW¼) Section 30, Township 20 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 32', 26.0" North and site longitude is 103°, 17', 34.8" West. The site is characterized by a pipeline right-of-way in an undulating dunal pasture utilized for cattle grazing with numerous crude oil and natural gas producing facilities in the vicinity. The initial visible surface stained area includes the release point and flow path area covering an area approximately 8 feet long by 8 feet wide. Initially, the crude oil release was deemed to be non-reportable; however, after excavation activities were initiated, the leak was elevated to reportable status and appropriate notifications and documentation were accomplished by Plains. A total of 52 barrels of crude oil were estimated to have been released from the crude oil pipeline and 0 barrels were recovered.

An Emergency One-Call was initiated 05 April 2007 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 23 April 2007. A C-141 form, dated 24 April 2007 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 and subsequently approved by the New Mexico State Land Office (SLO), Santa Fe Office to perform remediation and restoration activities on-site (see Appendix C, SLO ROE-1546, 06 June 2007).

SUMMARY OF FIELD ACTIVITIES

On 05 April 2007, Basin mobilized to the idled Skippy Horn Pipeline responding to a crude oil release for Plains. Plains operations personnel contained the crude oil release by cold cutting the pipeline and installing a pipeline bull plug. A pipeline blind was installed at the tie-in valve to ensure there would be no further seepage into the idled Skippy Horn Pipeline. Upon arrival at the release site, Basin initiated excavation of the release point and flow path area with the impacted soil stockpiled on a 6-mil poly liner adjacent to the excavation for future remedial action. The final dimensions of the excavated area are approximately 50 feet long by 30 feet wide and approximately 10 feet below ground surface (bgs) (See Figure 2, Excavation Site

Map). Approximately 500 cubic yards of impacted soil has been stockpiled on-site commensurate remediation activities.

On 18 July 2007, five (5) confirmation soil samples were collected from the floor and walls of the excavation ranging in depth from approximately 5 to 10 feet bgs.

On 14 Aug 2007, one (1) soil boring was installed to evaluate the vertical extent of crude oil impact. The soil boring was installed on the excavation floor adjacent to the release point at approximately ten (10) feet bgs and soil samples were collected at five (5) feet intervals. The soil boring was installed to a true subsurface depth of approximately 45 feet bgs.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no groundwater data available for that section, township and range; however, the depth to groundwater map utilized by NMOCD, Hobbs District 1, indicates an average depth to groundwater to be approximately 104 feet bgs. During the Installation of Soil Boring 1 (SB-1) to a subsurface depth of approximately 45 feet bgs, groundwater was not encountered. 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

TOTAL BTEX: 50 ppm

TPH: 1000 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The final dimensions of the excavation which includes the release point and flow path area are approximately 50 feet long by 30 feet wide and approximately 10 feet bgs. Approximately 500 cubic yards of impacted soil has been stockpiled on-site commensurate with remediation activities conducted.

On 18 July 2007, five (5) confirmation soil samples were collected from the floor and walls of the excavation ranging in depth from approximately 5 to 10 feet bgs. Soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits for the west wall, east wall and north wall soil samples and the west wall and excavation floor soil samples reported BTEX concentrations below NMOCD regulatory standards. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO were not detected above laboratory method detection limits for the south wall, east wall, north wall and

excavation floor soil samples and the west wall soil sample reported TPH-GRO/DRO concentrations below NMOCD regulatory standards. Based on the laboratory results, no further excavation is warranted.

On 14 Aug 2007, one (1) soil boring was installed to evaluate the vertical extent of crude oil impact. The soil boring was installed on the excavation floor adjacent to the release point at approximately ten (10) feet bgs and soil samples were collected at five (5) feet intervals. The soil boring was installed to a true subsurface depth of approximately 45 feet bgs. Soil samples collected at 5, 10, 20, 30 and 35 feet bgs were submitted for analysis. Laboratory results indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits for the five (5) soil samples.

RECOMMENDATIONS FOR REMEDIATION

Approximately 500 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 and laboratory results, Basin recommends that Plains request approval from the NMOCD to utilize the on-site stockpiled material as backfill. The backfilled excavation will be contoured to match the original rangeland grade.

An approved right-of-entry permit was requested and received from the SLO, dated 06 June 2007. Reseeding activities will be accomplished as stipulated in the proposed SLO Restoration Plan, dated 29 August 2007.

Upon completion of backfilling the excavation, Basin on behalf of Plains, will submit a closure request for NMOCD approval.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Trace Analysis, Inc., in Midland, Texas for BTEX, TPH-GRO/DRO analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination Of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox[®] detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

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

- Copy 1: Jeff Dann
Plains All American
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com
- Copy 2: Camille Reynolds
Plains All American
3112 W. Highway 82
Lovington, New Mexico 88260
cjreynolds@paalp.com
- Copy 3: Mr. Larry Johnson
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240
Larry.Johnson@state.nm.us
- Copy 4: Mr. Thaddeus Kostrubala
New Mexico State Land Office
310 Old Santa Fe Trail
P. O. Box 1148
Santa Fe, New Mexico 87504
Thaddeus.kostrubala@slo.state.nm.us
- Copy 5: Basin Environmental Service Technologies LLC
P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com

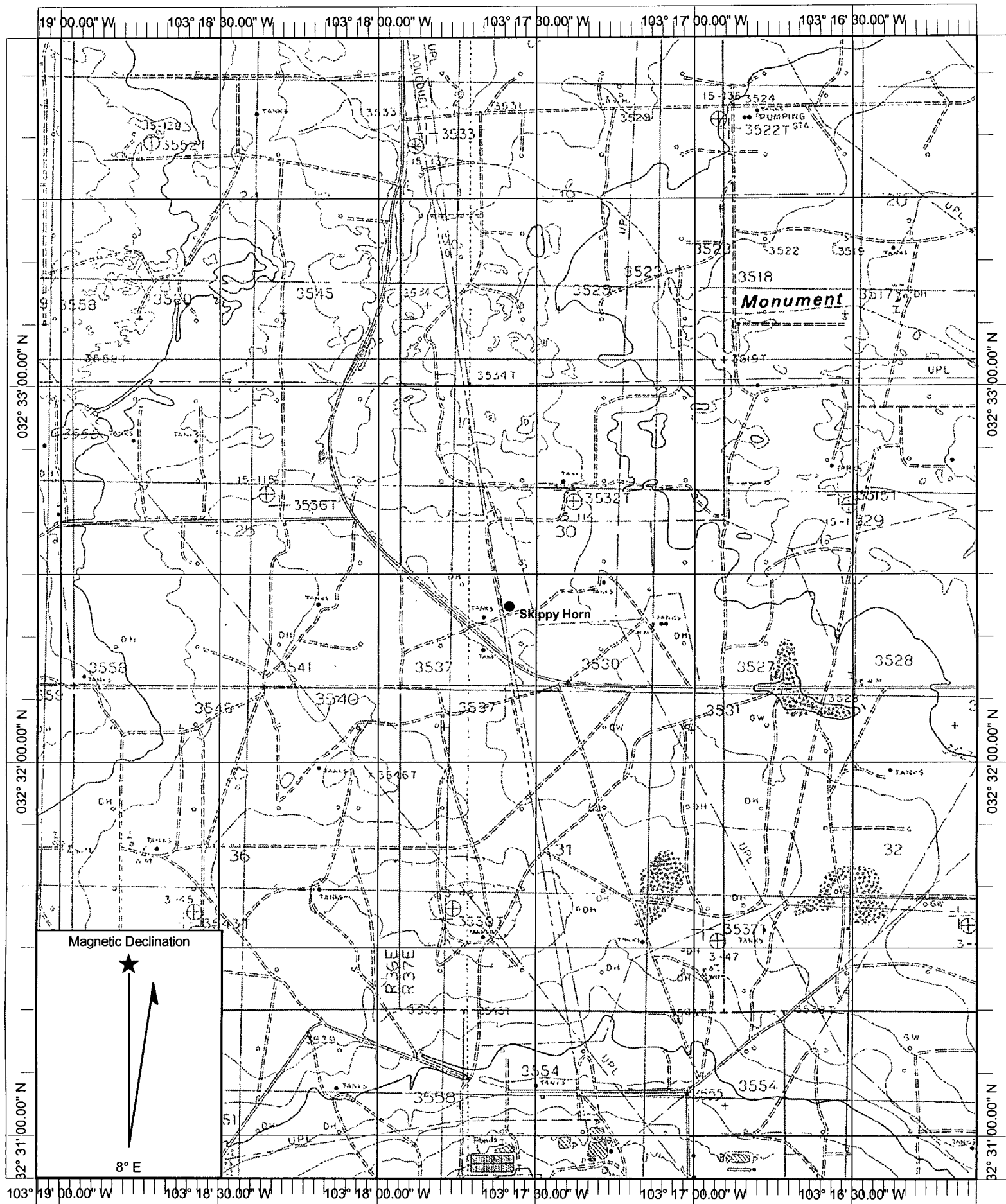
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TABLE 1

SOIL CHEMISTRY RESULTS

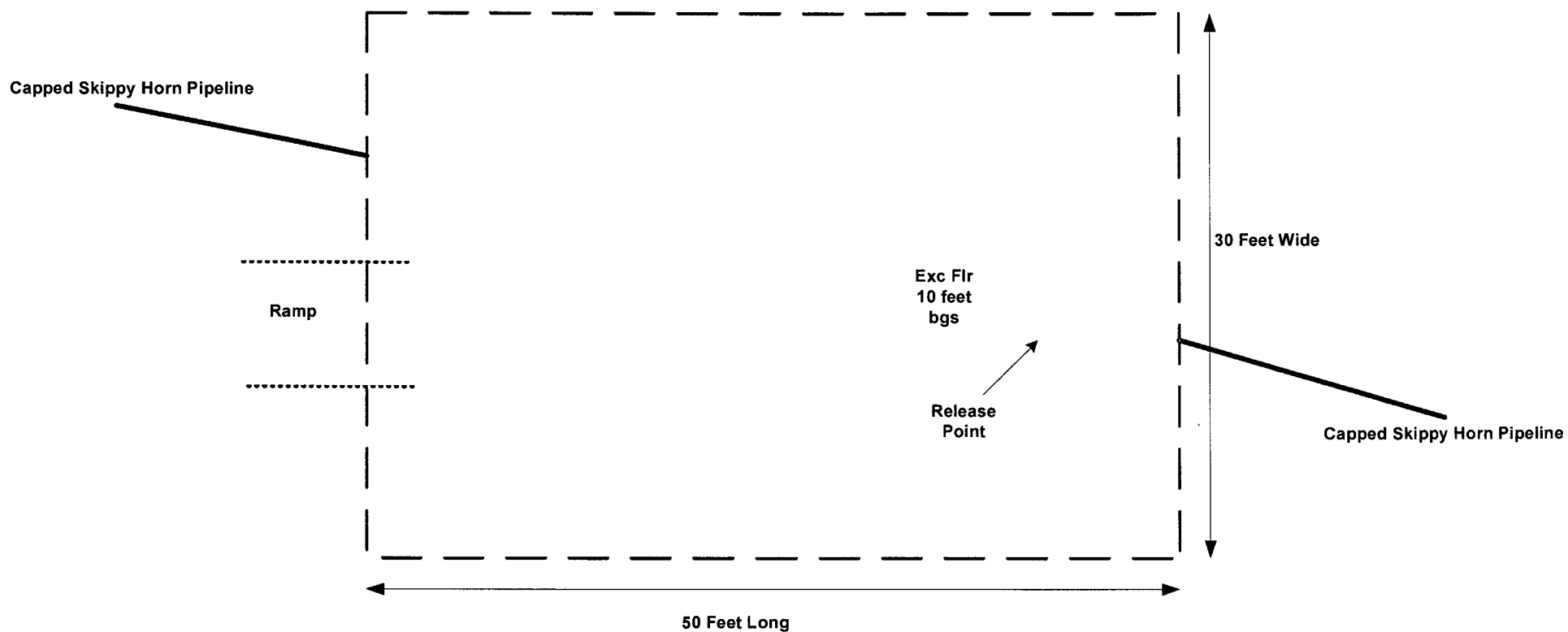
PLAINS MARKETING, L.P.
 SKIPPY HORN
 LEA COUNTY, NEW MEXICO
 SRS: 2007-122

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	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)
S/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
E/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
W/W	5' bgs	07/18/07	In-Situ	<0.010	0.032	0.030	0.096	<0.010	<50	3.71	4
N/W	5' bgs	07/18/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
Excav Flr	10' bgs	07/18/07	In-Situ	0.010	0.010	0.010	0.010	0.010	<50	<1	<50
Stockpile	N/A	07/18/07	Stockpile	<0.010	0.044	0.041	0.179	<0.010	127	9.97	137
SB-1 5'	15' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 10'	20' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 20'	30' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 30'	30' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
SB-1 35'	45' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1	<50
Stockpile	N/A	08/23/07	Stockpile	<0.010	0.899	<0.010	1.11	<0.010	239	169	408
NMOCD Criteria				10	TOTAL BTEX 50						1000



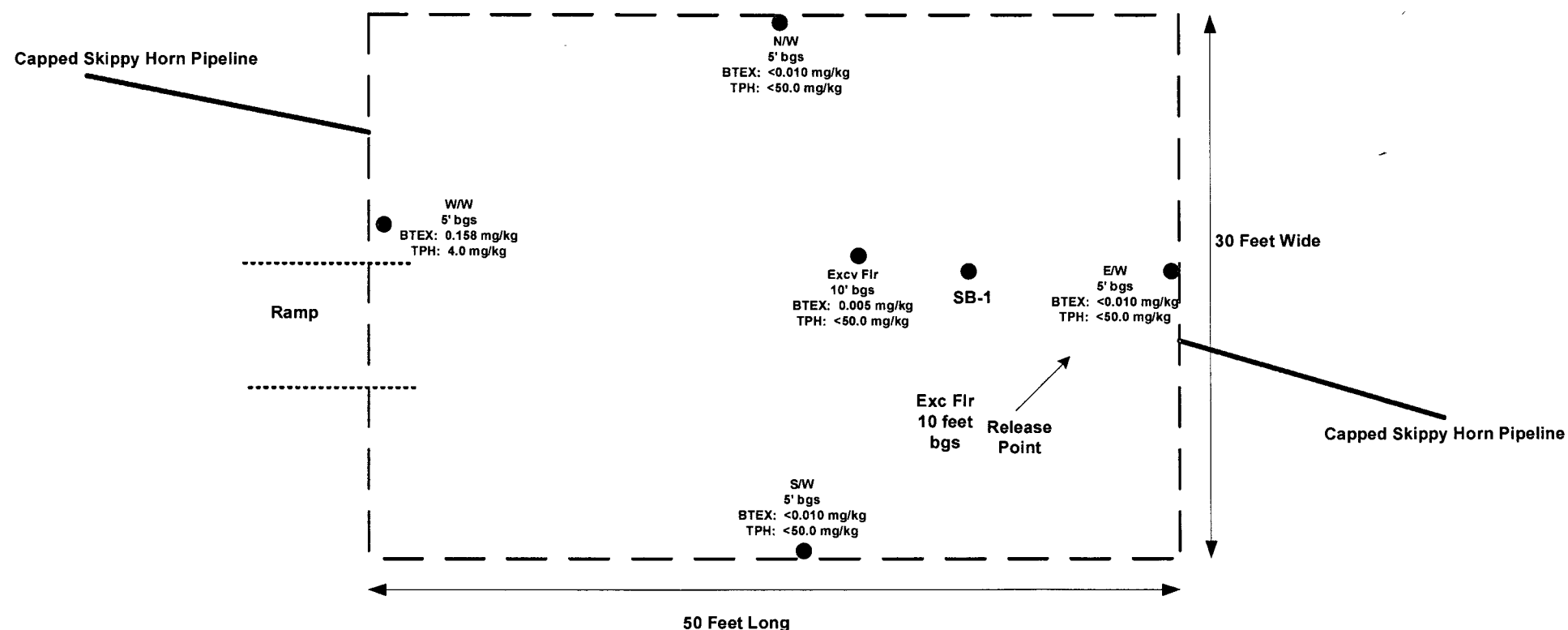
Name: MONUMENT SOUTH
 Date: 9/5/2007
 Scale: 1 inch equals 2000 feet

Location: 032° 32' 24.68" N 103° 17' 35.50" W NAD 27
 Caption: Plains Marketing, L. P.
 Figure 1, Site Location Map
 Skippy Horn



Stockpiled Material

TITLE	Figure 2 Excavation Site Map
DESCRIPTION	Plains Marketing, L.P. Skippy Horn SE/SW S30, T20S, R37E Lea County, New Mexico SRS: 2007-122
DRAWN BY	Basin Environmental Services kad



TITLE	Figure 3 Excavation Site Map & Soil Boring & Soil Sampling Locations
DESCRIPTION	Plains Marketing, L.P. Skippy Horn SE/SW S30, T20S, R37E Lea County, New Mexico SRS: 2007-122
DRAWN BY	Basin Environmental Services kad

Plains Marketing, L. P.
Sippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122

11/04/2007



A black and white photograph of a geological outcrop. The image shows a dark, layered rock formation, possibly a coal seam or a specific sedimentary layer, dipping diagonally across the frame. The surrounding rock is lighter and more textured. A thin, light-colored stick or wire is visible, extending vertically through the dark layer on the right side of the image. The overall scene is a close-up of the rock face.

Plains Marketing, L.P.
Skippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122

Plains Marketing, L.P.
Sippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122

11/04/2007

Plains Marketing, L.P.
Skippy Horn
SE/SW S30, T20S, R37E
Lea County, NM
Plains SRS: 2007-122

AUTOMATIC
DISCHARGE
FIREWORKS
FALLS
FALLS

Plains Marketing, L.P.
Skippy Horn
SE/SW S30, T20S, R37E
Echa County, NM
Plains SRS: 2007-122

10074601

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 20S Range: 37E Sections: 30

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

POD / SURFACE DATA REPORT 08/21/2007

(acre ft per annum)

DB File Nbr Use Diversion Owner

POD Number

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)
Source Tws Rng Sec q q q

X Y are in Feet
Zone X Y

UTM are in feet
UTM_Zone Easting

No Records found, try again



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200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: August 29, 2007

Work Order: 7082429



Project Location: Lea County, NM
Project Name: Skippy Horn
Project Number: SRS#2007-122

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
134352	Stockpile	soil	2007-08-23	15:30	2007-08-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 134352 - Stockpile

Analysis: BTEX
QC Batch: 40496
Prep Batch: 35014

Analytical Method: S 8021B
Date Analyzed: 2007-08-24
Sample Preparation: 2007-08-24

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		0.899	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		1.11	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.890	mg/Kg	1	1.00	89	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	47.3 - 144.2

Sample: 134352 - Stockpile

Analysis: TPH DRO
QC Batch: 40468
Prep Batch: 35011

Analytical Method: Mod. 8015B
Date Analyzed: 2007-08-27
Sample Preparation: 2007-08-27

Prep Method: N/A
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		239	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		140	mg/Kg	1	150	93	17.3 - 169.6

Sample: 134352 - Stockpile

Analysis: TPH GRO
QC Batch: 40540
Prep Batch: 35014

Analytical Method: S 8015B
Date Analyzed: 2007-08-24
Sample Preparation: 2007-08-24

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		169	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.692	mg/Kg	1	1.00	69	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	¹	7.41	mg/Kg	1	1.00	741	50.8 - 131.6

¹ High surrogate recovery due to peak interference.

Method Blank (1) QC Batch: 40468

QC Batch: 40468
Prep Batch: 35011

Date Analyzed: 2007-08-27
QC Preparation: 2007-08-27

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		98.3	mg/Kg	1	150	66	32.9 - 156.1

Method Blank (1) QC Batch: 40496

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.933	mg/Kg	1	1.00	93	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.993	mg/Kg	1	1.00	99	53.1 - 111.6

Method Blank (1) QC Batch: 40540

QC Batch: 40540
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40468
Prep Batch: 35011

Date Analyzed: 2007-08-27
QC Preparation: 2007-08-27

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	174	mg/Kg	1	250	<13.4	70	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	170	mg/Kg	1	250	<13.4	68	49.1 - 142.3	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	96.9	99.6	mg/Kg	1	150	65	66	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.943	mg/Kg	1	1.00	<0.00110	94	71.2 - 119
Toluene	0.987	mg/Kg	1	1.00	<0.00150	99	76.3 - 116.5
Ethylbenzene	0.988	mg/Kg	1	1.00	<0.00160	99	77.6 - 114
Xylene	2.93	mg/Kg	1	3.00	<0.00410	98	78.8 - 113.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.957	mg/Kg	1	1.00	<0.00110	96	71.2 - 119	2	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	76.3 - 116.5	1	20
Ethylbenzene	0.990	mg/Kg	1	1.00	<0.00160	99	77.6 - 114	0	20
Xylene	2.99	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.909	0.898	mg/Kg	1	1.00	91	90	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.945	0.956	mg/Kg	1	1.00	94	96	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40540
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.21	mg/Kg	1	10.0	<0.739	82	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.12	mg/Kg	1	10.0	<0.739	91	56 - 105.2	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.970	0.970	mg/Kg	1	1.00	97	97	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.990	0.993	mg/Kg	1	1.00	99	99	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 134346

QC Batch: 40468
Prep Batch: 35011

Date Analyzed: 2007-08-27
QC Preparation: 2007-08-27

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	1380	mg/Kg	1	250	1210	68	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	² 909	mg/Kg	1	250	1210	0	30.2 - 201.4	41	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	247	199	mg/Kg	1	150	165	133	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133920

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.884	mg/Kg	1	1.00	<0.00110	88	65.7 - 119.1
Toluene	0.916	mg/Kg	1	1.00	<0.00150	92	47.7 - 153.8
Ethylbenzene	0.944	mg/Kg	1	1.00	<0.00160	94	73.5 - 126.3
Xylene	2.82	mg/Kg	1	3.00	<0.00410	94	73.6 - 125.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.946	mg/Kg	1	1.00	<0.00110	95	65.7 - 119.1	7	20
Toluene	0.968	mg/Kg	1	1.00	<0.00150	97	47.7 - 153.8	6	20
Ethylbenzene	0.962	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	2	20
Xylene	2.85	mg/Kg	1	3.00	<0.00410	95	73.6 - 125.9	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.946	0.892	mg/Kg	1	1	95	89	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.03	0.912	mg/Kg	1	1	103	91	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 134125

QC Batch: 40540
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.22	mg/Kg	1	10.0	<0.739	77	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6.85	mg/Kg	1	10.0	<0.739	63	10 - 102.2	18	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.791	0.747	mg/Kg	1	1	79	75	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.03	mg/Kg	1	1	104	103	58 - 162.6

Standard (CCV-1)

QC Batch: 40468

Date Analyzed: 2007-08-27

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	217	87	85 - 115	2007-08-27

Standard (CCV-2)

QC Batch: 40468

Date Analyzed: 2007-08-27

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	228	91	85 - 115	2007-08-27

Standard (ICV-1)

QC Batch: 40496

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.107	107	85 - 115	2007-08-24
Xylene		mg/Kg	0.300	0.320	107	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40496

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Xylene		mg/Kg	0.300	0.290	97	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40540

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40540

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.954	95	85 - 115	2007-08-24

WO# 7082429

Phone: 432-689-6301
Fax: 432-689-6313

e-mail: kdutton@basinenv.com

[illegible]



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•688•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•669•6301 FAX 432•669•6313
6015 Harris Parkway Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: August 21, 2007

Work Order: 7081730



Project Location: Lea County, NM
Project Name: Skippy Horn
Project Number: SRS#2007-122

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133614	SB-1, 5'	soil	2007-08-14	09:08	2007-08-17
133615	SB-1, 10'	soil	2007-08-14	09:11	2007-08-17
133616	SB-1, 20'	soil	2007-08-14	09:26	2007-08-17
133617	SB-1, 30'	soil	2007-08-14	09:40	2007-08-17
133618	SB-1, 35'	soil	2007-08-14	09:45	2007-08-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 133614 - SB-1, 5'

Analysis: BTEX
QC Batch: 40257
Prep Batch: 34840

Analytical Method: S 8021B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.986	mg/Kg	1	1.00	99	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	47.3 - 144.2

Sample: 133614 - SB-1, 5'

Analysis: TPH DRO
QC Batch: 40189
Prep Batch: 34780

Analytical Method: Mod. 8015B
Date Analyzed: 2007-08-17
Sample Preparation: 2007-08-17

Prep Method: N/A
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		218	mg/Kg	1	150	145	17.3 - 169.6

Sample: 133614 - SB-1, 5'

Analysis: TPH GRO
QC Batch: 40261
Prep Batch: 34840

Analytical Method: S 8015B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.930	mg/Kg	1	1.00	93	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	50.8 - 131.6

¹ High surrogate recovery. Sample non-detect, result bias high.

Sample: 133615 - SB-1, 10'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 40257	Date Analyzed: 2007-08-20	Analyzed By:
Prep Batch: 34840	Sample Preparation: 2007-08-20	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.979	mg/Kg	1	1.00	98	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	47.3 - 144.2

Sample: 133615 - SB-1, 10'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 40189	Date Analyzed: 2007-08-17	Analyzed By:
Prep Batch: 34780	Sample Preparation: 2007-08-17	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		197	mg/Kg	1	150	131	17.3 - 169.6

Sample: 133615 - SB-1, 10'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 40261	Date Analyzed: 2007-08-20	Analyzed By:
Prep Batch: 34840	Sample Preparation: 2007-08-20	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.849	mg/Kg	1	1.00	85	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133616 - SB-1, 20'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 40257	Date Analyzed: 2007-08-20	Analyzed By:
Prep Batch: 34840	Sample Preparation: 2007-08-20	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.996	mg/Kg	1	1.00	100	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	47.3 - 144.2

Sample: 133616 - SB-1, 20'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 40189	Date Analyzed: 2007-08-17	Analyzed By:
Prep Batch: 34780	Sample Preparation: 2007-08-17	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		206	mg/Kg	1	150	137	17.3 - 169.6

Sample: 133616 - SB-1, 20'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 40261	Date Analyzed: 2007-08-20	Analyzed By:
Prep Batch: 34840	Sample Preparation: 2007-08-20	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.837	mg/Kg	1	1.00	84	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133617 - SB-1, 30'

Analysis: BTEX
QC Batch: 40257
Prep Batch: 34840

Analytical Method: S 8021B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.955	mg/Kg	1	1.00	96	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	47.3 - 144.2

Sample: 133617 - SB-1, 30'

Analysis: TPH DRO
QC Batch: 40189
Prep Batch: 34780

Analytical Method: Mod. 8015B
Date Analyzed: 2007-08-17
Sample Preparation: 2007-08-17

Prep Method: N/A
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		208	mg/Kg	1	150	139	17.3 - 169.6

Sample: 133617 - SB-1, 30'

Analysis: TPH GRO
QC Batch: 40261
Prep Batch: 34840

Analytical Method: S 8015B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.02	mg/Kg	1	1.00	102	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

²High surrogate recovery. Sample non-detect, result bias high.

Sample: 133618 - SB-1, 35'

Analysis: BTEX
QC Batch: 40257
Prep Batch: 34840

Analytical Method: S 8021B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	47.3 - 144.2

Sample: 133618 - SB-1, 35'

Analysis: TPH DRO
QC Batch: 40189
Prep Batch: 34780

Analytical Method: Mod. 8015B
Date Analyzed: 2007-08-17
Sample Preparation: 2007-08-17

Prep Method: N/A
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		231	mg/Kg	1	150	154	17.3 - 169.6

Sample: 133618 - SB-1, 35'

Analysis: TPH GRO
QC Batch: 40261
Prep Batch: 34840

Analytical Method: S 8015B
Date Analyzed: 2007-08-20
Sample Preparation: 2007-08-20

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	1.00	mg/Kg	1	1.00	100	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

³High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 40189

QC Batch: 40189
Prep Batch: 34780

Date Analyzed: 2007-08-17
QC Preparation: 2007-08-17

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		203	mg/Kg	1	150	135	32.9 - 156.1

Method Blank (1) QC Batch: 40257

QC Batch: 40257
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	53.1 - 111.6

Method Blank (1) QC Batch: 40261

QC Batch: 40261
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40189
Prep Batch: 34780

Date Analyzed: 2007-08-17
QC Preparation: 2007-08-17

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	291	mg/Kg	1	250	<13.4	116	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	283	mg/Kg	1	250	<13.4	113	49.1 - 142.3	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	181	188	mg/Kg	1	150	121	125	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40257
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.978	mg/Kg	1	1.00	<0.00110	98	71.2 - 119
Toluene	1.03	mg/Kg	1	1.00	<0.00150	103	76.3 - 116.5
Ethylbenzene	1.04	mg/Kg	1	1.00	<0.00160	104	77.6 - 114
Xylene	3.11	mg/Kg	1	3.00	<0.00410	104	78.8 - 113.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.944	mg/Kg	1	1.00	<0.00110	94	71.2 - 119	4	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	76.3 - 116.5	3	20
Ethylbenzene	1.02	mg/Kg	1	1.00	<0.00160	102	77.6 - 114	2	20
Xylene	3.01	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.00	1.06	mg/Kg	1	1.00	100	106	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	1.01	0.996	mg/Kg	1	1.00	101	100	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40261
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.50	mg/Kg	1	10.0	<0.739	85	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.43	mg/Kg	1	10.0	<0.739	94	56 - 105.2	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.994	mg/Kg	1	1.00	101	99	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	1.05	1.03	mg/Kg	1	1.00	105	103	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 133542

QC Batch: 40189
Prep Batch: 34780

Date Analyzed: 2007-08-17
QC Preparation: 2007-08-17

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	226	mg/Kg	1	250	<13.4	90	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	246	mg/Kg	1	250	<13.4	98	30.2 - 201.4	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	190	168	mg/Kg	1	150	127	112	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40257
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	65.7 - 119.1
Toluene	1.12	mg/Kg	1	1.00	<0.00150	112	47.7 - 153.8
Ethylbenzene	1.17	mg/Kg	1	1.00	<0.00160	117	73.5 - 126.3
Xylene	3.47	mg/Kg	1	3.00	<0.00410	116	73.6 - 125.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.13	mg/Kg	1	1.00	<0.00110	113	65.7 - 119.1	9	20
Toluene	1.20	mg/Kg	1	1.00	<0.00150	120	47.7 - 153.8	7	20
Ethylbenzene	1.24	mg/Kg	1	1.00	<0.00160	124	73.5 - 126.3	6	20
Xylene	3.72	mg/Kg	1	3.00	<0.00410	124	73.6 - 125.9	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.962	0.970	mg/Kg	1	1	96	97	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.04	1.02	mg/Kg	1	1	104	102	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40261
Prep Batch: 34840

Date Analyzed: 2007-08-20
QC Preparation: 2007-08-20

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.56	mg/Kg	1	10.0	<0.739	89	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.3	mg/Kg	1	10.0	<0.739	97	10 - 102.2	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁴ 0.982	0.844	mg/Kg	1	1	98	84	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.06	1.04	mg/Kg	1	1	106	104	58 - 162.6

Standard (CCV-1)

QC Batch: 40189

Date Analyzed: 2007-08-17

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2007-08-17

Standard (CCV-2)

QC Batch: 40189

Date Analyzed: 2007-08-17

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	268	107	85 - 115	2007-08-17

Standard (ICV-1)

QC Batch: 40257

Date Analyzed: 2007-08-20

Analyzed By:

⁴High surrogate recovery due to peak interference.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0917	92	85 - 115	2007-08-20
Toluene		mg/Kg	0.100	0.0953	95	85 - 115	2007-08-20
Ethylbenzene		mg/Kg	0.100	0.0969	97	85 - 115	2007-08-20
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2007-08-20

Standard (CCV-1)

QC Batch: 40257

Date Analyzed: 2007-08-20

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0973	97	85 - 115	2007-08-20
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2007-08-20
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-20
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2007-08-20

Standard (ICV-1)

QC Batch: 40261

Date Analyzed: 2007-08-20

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2007-08-20

Standard (CCV-1)

QC Batch: 40261

Date Analyzed: 2007-08-20

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2007-08-20

TRACE ANALYSIS, INC.

work order: 7081730

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

5002 Basin Street, Suite A1
Midland, Texas 79703

Phone: 432-689-6301
Fax: 432-689-6313

Project Manager: Ken Dutton PAGE 01 OF 01

Project Name: SKIPPY HORN

Company Name: Basin Environmental Service Technologies, LLC

Project #: SRS: 2007-122

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: INVOICE TO PLAINS MARKETING

Telephone No: (505) 441-2124

Fax No: (505) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Ken Dutton

e-mail: kdutton@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	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW = Drinking water SL = Sludge GW = Groundwater S = Soil/soil NP = Non-Potable Specify Other	TPH: 418.1 8015M 801515M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Si	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8280	RCI	N.O.M.	Chlorides EPA 300.0	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
133614	SB-1 5'	0	5	14-Aug-07	0908	1	X									SOIL	X								X							X
615	SB-1 10'	5	10	14-Aug-07	0911	1	X									SOIL	X								X							X
616	SB-1 20'	15	20	14-Aug-07	0926	1	X									SOIL	X								X							X
617	SB-1 30'	25	30	14-Aug-07	0940	1	X									SOIL	X								X							X
618	SB-1 35'	30	35	14-Aug-07	0945	1	X									SOIL	X								X							X
																						</										

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Ken Dutton</u>	<u>17 Aug 07</u>	<u>0845</u>	<u>Linda Blackwood</u>	<u>Aug 17 07</u>	<u>0845</u>
Relinquished by:	Date	Time	Received by:	Date	Time
<u>Linda Blackwood</u>	<u>Aug 17 07</u>	<u>1:10</u>	<u>Ken Dutton</u>	<u>8/17/07</u>	<u>13:10</u>

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: 8.8 °C

All tests - Midland 25



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: July 23, 2007

Work Order: 7071917



Project Location: Lea County, NM
Project Name: Skippy Horn
Project Number: SRS#2007-122

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
130410	S/W	soil	2007-07-18	09:00	2007-07-19
130411	E/W	soil	2007-07-18	09:10	2007-07-19
130412	W/W	soil	2007-07-18	09:20	2007-07-19
130413	N/W	soil	2007-07-18	09:30	2007-07-19
130414	EXCV FLR	soil	2007-07-18	09:40	2007-07-19
130415	STOCKPILE	soil	2007-07-18	09:50	2007-07-19

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 130410 - S/W

Analysis: BTEX
QC Batch: 39262
Prep Batch: 33985

Analytical Method: S 8021B
Date Analyzed: 2007-07-19
Sample Preparation: 2007-07-19

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	51.1 - 119.1

Sample: 130410 - S/W

Analysis: TPH DRO
QC Batch: 39246
Prep Batch: 33967

Analytical Method: Mod. 8015B
Date Analyzed: 2007-07-19
Sample Preparation: 2007-07-19

Prep Method: N/A
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		143	mg/Kg	1	150	95	32.9 - 167

Sample: 130410 - S/W

Analysis: TPH GRO
QC Batch: 39265
Prep Batch: 33985

Analytical Method: S 8015B
Date Analyzed: 2007-07-19
Sample Preparation: 2007-07-19

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.718	mg/Kg	1	1.00	72	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.763	mg/Kg	1	1.00	76	67.5 - 140.3

Sample: 130411 - E/W

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 39262	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	51.1 - 119.1

Sample: 130411 - E/W

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		134	mg/Kg	1	150	89	32.9 - 167

Sample: 130411 - E/W

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 39265	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.717	mg/Kg	1	1.00	72	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.769	mg/Kg	1	1.00	77	67.5 - 140.3

Sample: 130412 - W/W

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 39262	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		0.0323	mg/Kg	1	0.0100
Ethylbenzene		0.0305	mg/Kg	1	0.0100
Xylene		0.0968	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	51.1 - 119.1

Sample: 130412 - W/W

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		133	mg/Kg	1	150	89	32.9 - 167

Sample: 130412 - W/W

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 39265	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		3.71	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.708	mg/Kg	1	1.00	71	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.937	mg/Kg	1	1.00	94	67.5 - 140.3

Sample: 130413 - N/W

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 39262	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	51.1 - 119.1

Sample: 130413 - N/W

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		125	mg/Kg	1	150	83	32.9 - 167

Sample: 130413 - N/W

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 39265	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.709	mg/Kg	1	1.00	71	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	1	1.00	80	67.5 - 140.3

Sample: 130414 - EXCV FLR

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 39262	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.19	mg/Kg	1	1.00	119	51.1 - 119.1

Sample: 130414 - EXCV FLR

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		134	mg/Kg	1	150	89	32.9 - 167

Sample: 130414 - EXCV FLR

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 39265	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.686	mg/Kg	1	1.00	69	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.817	mg/Kg	1	1.00	82	67.5 - 140.3

Sample: 130415 - STOCKPILE

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 39262	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		0.0447	mg/Kg	1	0.0100
Ethylbenzene		0.0412	mg/Kg	1	0.0100
Xylene		0.179	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	51.1 - 119.1

Sample: 130415 - STOCKPILE

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		127	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	32.9 - 167

Sample: 130415 - STOCKPILE

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 39265	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33985	Sample Preparation: 2007-07-19	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		9.97	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.747	mg/Kg	1	1.00	75	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.883	mg/Kg	1	1.00	88	67.5 - 140.3

Method Blank (1) QC Batch: 39246

QC Batch: 39246	Date Analyzed: 2007-07-19	Analyzed By:
Prep Batch: 33967	QC Preparation: 2007-07-19	Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		110	mg/Kg	1	150	73	44.7 - 133.6

Method Blank (1) QC Batch: 39262

QC Batch: 39262
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.05	mg/Kg	1	1.00	105	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.947	mg/Kg	1	1.00	95	53.9 - 125.1

Method Blank (1) QC Batch: 39265

QC Batch: 39265
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.776	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.696	mg/Kg	1	1.00	70	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: 39246
Prep Batch: 33967

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	187	mg/Kg	1	250	<14.6	75	47.5 - 144.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	190	mg/Kg	1	250	<14.6	76	47.5 - 144.1	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Triacontane	117	121	mg/Kg	1	150	78	81	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 39262
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00110	101	68.6 - 123.4
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	74.6 - 119.3
Ethylbenzene	1.01	mg/Kg	1	1.00	<0.00160	101	72.3 - 126.2
Xylene	3.01	mg/Kg	1	3.00	<0.00410	100	76.5 - 121.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.993	mg/Kg	1	1.00	<0.00110	99	68.6 - 123.4	2	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	74.6 - 119.3	0	20
Ethylbenzene	0.995	mg/Kg	1	1.00	<0.00160	100	72.3 - 126.2	2	20
Xylene	2.99	mg/Kg	1	3.00	<0.00410	100	76.5 - 121.6	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.974	0.911	mg/Kg	1	1.00	97	91	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	1.02	1.02	mg/Kg	1	1.00	102	102	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 39265
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.75	mg/Kg	1	10.0	<0.739	88	57.7 - 102.5

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.73	mg/Kg	1	10.0	<0.739	87	57.7 - 102.5	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.16	1.01	mg/Kg	1	1.00	116	101	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.803	0.814	mg/Kg	1	1.00	80	81	70 - 130

Matrix Spike (MS-1) Spiked Sample: 130411

QC Batch: 39246
Prep Batch: 33967

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	193	mg/Kg	1	250	<14.6	77	11.7 - 152.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	199	mg/Kg	1	250	<14.6	80	11.7 - 152.3	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	128	128	mg/Kg	1	150	85	85	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 130329

QC Batch: 39262
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	¹ 2.06	mg/Kg	1	1.00	<0.00110	206	64.4 - 115.7
Toluene	² 2.12	mg/Kg	1	1.00	<0.00150	212	57.8 - 124.4
Ethylbenzene	³ 2.22	mg/Kg	1	1.00	<0.00160	222	64.8 - 125.8
Xylene	⁴ 6.70	mg/Kg	1	3.00	<0.00410	223	65.2 - 121.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	⁵ 1.64	mg/Kg	1	1.00	<0.00110	164	64.4 - 115.7	23	20
Toluene	⁶ 1.70	mg/Kg	1	1.00	<0.00150	170	57.8 - 124.4	22	20
Ethylbenzene	⁷ 1.79	mg/Kg	1	1.00	<0.00160	179	64.8 - 125.8	21	20
Xylene	⁸ 5.42	mg/Kg	1	3.00	<0.00410	181	65.2 - 121.8	21	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁷Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.910	0.959	mg/Kg	1	1	91	96	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	1.14	1.10	mg/Kg	1	1	114	110	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 130329

QC Batch: 39265
Prep Batch: 33985

Date Analyzed: 2007-07-19
QC Preparation: 2007-07-19

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	⁹ 18.4	mg/Kg	1	10.0	<0.739	184	10 - 141.5

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹⁰ 6.89	mg/Kg	1	10.0	<0.739	69	10 - 141.5	91	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.532	0.589	mg/Kg	1	1	53	59	40 - 125.3
4-Bromofluorobenzene (4-BFB)	¹¹ 0.999	0.830	mg/Kg	1	1	100	83	86.7 - 144.5

Standard (ICV-1)

QC Batch: 39246

Date Analyzed: 2007-07-19

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	85 - 115	2007-07-19

Standard (CCV-1)

QC Batch: 39246

Date Analyzed: 2007-07-19

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	213	85	85 - 115	2007-07-19

Standard (ICV-1)

QC Batch: 39262

Date Analyzed: 2007-07-19

Analyzed By:

⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰RPD out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control. •

¹¹Surrogate out due to peak interference.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	85 - 115	2007-07-19
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2007-07-19
Ethylbenzene		mg/Kg	0.100	0.113	113	85 - 115	2007-07-19
Xylene		mg/Kg	0.300	0.341	114	85 - 115	2007-07-19

Standard (CCV-1)

QC Batch: 39262

Date Analyzed: 2007-07-19

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0993	99	85 - 115	2007-07-19
Toluene		mg/Kg	0.100	0.0995	100	85 - 115	2007-07-19
Ethylbenzene		mg/Kg	0.100	0.0983	98	85 - 115	2007-07-19
Xylene		mg/Kg	0.300	0.294	98	85 - 115	2007-07-19

Standard (ICV-1)

QC Batch: 39265

Date Analyzed: 2007-07-19

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.10	110	85 - 115	2007-07-19

Standard (CCV-1)

QC Batch: 39265

Date Analyzed: 2007-07-19

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	85 - 115	2007-07-19

NEW MEXICO STATE LAND OFFICE
Patrick H. Lyons, Commissioner of Public Lands
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT
CONTRACT NO. 1546

1. RIGHT OF ENTRY PERMIT

This permit is issued under the authority of NMSA 1978, Section 19-1-2. In consideration of and subject to the terms, covenants, conditions, agreements, obligations and reservations contained in the permit and all other existing rights and regulations, the Commissioner of Public Lands, New Mexico State Land Office, State of New Mexico, hereinafter called "COMMISSIONER," grants to **Plains Pipeline, L.P.** State of incorporation (if applicable) Plains Pipeline, whose address is **P.O. Box 4648, Houston, TX 77210-4648**, hereinafter called "PERMITTEE," permission to enter upon the specific tract(s) of State Trust Land described in this permit only for the term, and only for the permitted use, described in this permit.

2. TERM AND LAND DESCRIPTION

Right of entry is granted for a term of **180 days**, commencing **June 6, 2007** and ending **December 6, 2007** to the following State Trust Lands.

Unit N Section 30, Township 20 South, Range 37 East

3. APPLICATION AND PROCESSING FEE.

\$530.00 (Five Hundred and Thirty Dollars)

4. PERMITTED USE, PERSONNEL, EQUIPMENT AND MATERIALS

Permitted use is for the purpose of: Excavate soil for remediation purposes. TO MINIMIZE DISTURBANCE, SHREDDING, BLENDING, AND/OR AERATING IS ALLOWED ON EXISTING DISTURBED AREA. NO LANDFARMING OR LANDSPREAD IS ALLOWED.

Personnel, equipment and materials to be present on State Trust Lands:

The granting of this permit does not allow access across private lands.

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SANTA FE, N.M.

5. IMPROVEMENTS

No improvements shall be placed on the premises without the prior written consent of the Commissioner.

6. RESERVATIONS

Commissioner reserves the right to execute leases, rights of way, easements, permits, exchange agreements, sale agreements, permits and other lawful rights on or across the land covered by this permit, including but not limited to any such rights for mining purposes and for the extraction of oil, gas, salt, geothermal resources, and other mineral deposits therefrom and the right to go upon, explore for, mine, remove and sell same.

7. COMPLIANCE WITH LAWS

Permittee shall at its own expense comply fully with and be subject to all applicable regulations, rules, ordinances, and requirements of law or of the Commissioner, including but not limited to the regulations of the State Land Office; Chapter 19 NMSA governing State Trust Lands; federal and state environmental laws and regulations; and the New Mexico Cultural Properties Act, NMSA 1978 Sections 18-6-1 through 18-6-23. It is illegal for any person or his agent to appropriate, excavate, injure, or destroy any historic, or prehistoric ruin or monument, or any object of historical, archaeological, architectural, or scientific value situated on lands owned or controlled by the State Land Office without a valid permit issued by the Cultural Properties Review Committee and approved by the Commissioner of Public Lands.

8. HOLD HARMLESS AND INDEMNIFICATION

Permittee shall save, hold harmless, indemnify and defend Commissioner, the State Land Office, the State of New Mexico, and any of their officers, employees or agents, in their official and individual capacities, of and from any and all liability, claims, losses, damages, costs, and fees arising out of or alleged to arise out of, or directly or indirectly connected with, the operations of Permittee under this permit on or off State Trust Lands or arising out of the presence on State Trust Lands of any equipment, material, agent, invitee, contractor or subcontractor of Permittee. This Hold Harmless and Indemnification clause covers any claim, including any brought in any court or before any administrative agency, of any loss or alleged loss, and any damages or alleged damages asserted with respect to any violation or alleged violation of any state, federal or local law or regulation, including but not limited to any environmental law or regulation, any cultural properties law (including the New Mexico Cultural Properties Act, cited above) or regulation, and any alleged damage to the property, rights or interests of any State Land Office lessee, right-of-way holder, or other permittee.

9. AMENDMENT

This permit shall not be altered, changed or amended except by an instrument in writing executed by Commissioner and Permittee.

10. WITHDRAWAL

Commissioner reserves the right to withdraw any or all of the land authorized for use under this permit. If applicable, Permittee shall vacate the acreage specified within 30 days after receipt of written notification of withdrawal from the Commissioner.

11. CANCELLATION

The violation by Permittee of any of the terms, conditions or covenants of this permit or the nonpayment by Permittee of the fees due under this permit shall at the option of the Commissioner be considered a default and shall cause the cancellation of this permit 30 days after Permittee has been sent written notice of such.

12. PRESERVE AND PROTECT

The Permittee agrees to preserve and protect the natural environmental conditions of the land encompassed in this permit, and to take those reclamation or corrective actions that are accepted soil and water conservation practices and that are deemed necessary by the Commissioner to protect the land from pollution, erosion, or other environmental degradation. The Permittee further agrees not to injure the property of, or interfere with the operations or rights of, any State Land Office lessee, right-of-way holder, easement holder or other permittee who has rights to use the State Trust Land subject to this permit.

13. RECLAMATION, REMOVAL OF EQUIPMENT, MATERIALS, AND WASTE

The Permittee agrees to reclaim those areas that may be damaged by activities conducted thereon.

The Permittee agrees to remove from the State Trust Lands, no later than the end of the term of this permit, all equipment and materials it has placed or brought upon the land and to clean up and remove from the land any trash, waste, effluent, or other products used or brought upon the land in connection with this permit.

14. SPECIAL INSTRUCTIONS AND/OR RESTRICTIONS

1. No off road traffic allowed.
2. No wood collection or tree cutting allowed.
3. Disturbing, dislodging, damaging, defacing, destroying or removing historical archaeological, paleontological or cultural sites or artifacts is prohibited
4. Disturbing, dislodging, damaging, defacing, destroying any improvement, fixture, item, object or thing placed or located in, under or upon the land is prohibited.

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SANTA FE, N.M.

5. This permit does not grant a right to enter State Trust Lands to which there is no public access.

6. Any uses or activities not within the scope of this permit are not allowed unless prior written approval from the Commissioner of Public Lands is granted.

7. OTHER:

WITNESS the hands and seals of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Rebecca Espinoza yon Plains
PERMITTEE

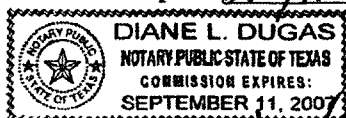
Telephone: 713-646-4625

ACKNOWLEDGMENT

STATE OF ^{Texas} ~~NEW MEXICO~~)
COUNTY OF Harris)

The foregoing instrument was acknowledged before me this 8th day of June, 2007.

My Commission Expires: Sept 11, 2007 Diane L. Dugas
NOTARY PUBLIC



Patrick H. Ryan
COMMISSIONER OF PUBLIC LANDS

DATE: 20 June 07

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STATE LAND OFFICE
SANTA FE, N.M.

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

☒ Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Skippy Horn	Facility Type 4" Steel Pipeline

Surface Owner SLO	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter N	Section 30	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32° 32' 26.0" Longitude 103° 17' 34.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 52 barrels	Volume Recovered 0 barrels
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 04/05/2007 @ 7:45	Date and Hour of Discovery 04/05/2007 @ 8:00
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 04/23/2007 @ 8:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken: At some time in the past an unknown party removed a piece of the idle 4-inch steel pipeline leaving the pipeline open ended. The 4-inch tie-in & check valve for the Skippy Horn Pipeline into the Eunice Booster 6" Pipeline was closed, however; it apparently allowed seepage to enter the idled 4-inch pipeline causing a limited flow of crude oil to enter the line, which seeped for an unknown period of time. A blind was installed at the tie-in valve to ensure the valve is isolated. Line idled, therefore, pressure and volume is not applicable.

Describe Area Affected and Cleanup Action Taken.* The initial visual impacted area was approximately 8 feet long by 8 feet wide. At that time the crude oil release was deemed to be a non-reportable release. Upon further excavation of the release area, it was determined to elevate the crude oil release to a reportable status. The impacted soil is being stockpiled on site on a 6-mil poly liner.

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: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cgreynolds@paalp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>4/24/07</u>	Phone: 505-441-0965	

* Attach Additional Sheets If Necessary

RPT#1297