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SOILS CLOSURE REPORT
E.K. QUEEN STATE
LEA COUNTY, NEW MEXICO
NMOCD REF. # RP-1194
SRS # 2007-058

Section 20, Township 18 South, Range 34 East

Prepared for:

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

Prepared by:

Talon/LPE
2901 Rankin Hwy.
Midland, Texas 79706

Distribution:
Copy 1 – Plains Lovington
Copy 2 – Plains Houston
Copy 3 – NMOCD Hobbs
Copy 4 – SLO Santa Fe
Copy 5 – Talon/LPE

October 30, 2007

E.K. Queen State
Soils Closure Report

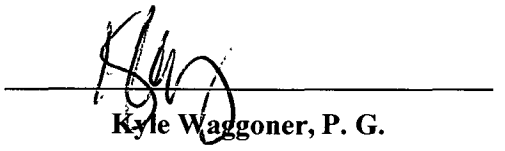
Plains Pipeline, L.P.
Houston, Texas

Talon/LPE PROJECT NO. PLAINS048SPL

Prepared by:

Marc Stroope
Senior Project Manager

Reviewed by:



Kyle Waggoner, P. G.
Senior Project Manager

Talon/LPE
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October 2007

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NMOCD - New Mexico Oil Conservation Division
SLO – New Mexico State Land Office

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Appendices

1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Location

Talon/LPE was retained by Plains Pipeline, L.P. (Plains) to conduct a soils investigation at the E.K. Queen State crude oil pipeline release site in Lea County, New Mexico. The purpose of this investigation was to delineate and remediate hydrocarbon impacted soils at this location.

The E.K. Queen State release site is located approximately 25 miles east of Loco Hills in Lea County, New Mexico. The GPS coordinates for the site are 32°44'12.4"N latitude and 103°34'41.5"W longitude. The release occurred on property owned by the New Mexico State Land Office (SLO) and is utilized as pasture land. The site is located in a rural area with a surface water body located within a 1,000 foot radius of the release point. There are no permanent residences within a 1,000 foot radius of the release point. A topographic map is provided as Figure 1 in Appendix A.

1.2 Site Background

In February 2007, a release of approximately twenty (20) barrels of crude oil occurred at the site due to internal corrosion of the pipeline. Approximately 2,100 square feet of surface area was impacted by the release. Approximately 5,700 cubic yards of soil and rock were excavated and stockpiled on a plastic liner onsite.

1.3 Regulatory Framework

The NMOCD has developed guidance for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for benzene, Total BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH). Based on site visits, the E.K. Queen State site is located in a rural area with a surface water body located within a 1,000 foot radius of the release point. There are no permanent residences within a 1,000 foot radius. According to information available from the New Mexico Office of the State Engineer, the nearest water well is not within 1,000 feet of the site. Based on this groundwater elevation data, the approximate depth from land surface to groundwater at the site is >100 feet below ground surface (bgs).

According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies the site ranking for this site is twenty (20). The ranking process is summarized below:

Criteria:	Site Condition:	Ranking Score:
Depth to Groundwater	>100 feet	0
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	<200 feet	20
Total Ranking:		20

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	**10 ppm**
Total BTEX	**50 ppm**
TPH	**100 ppm**

2.0 FIELD ACTIVITIES

2.1 Soil Investigation Activities

Talon/LPE commenced excavation activities at the site in February 2007 in order to remove soil impacted above the NMOCD remedial threshold limits. Approximately 5,700 cubic yards of soil and rock were excavated and stockpiled on a plastic liner onsite. The excavated area is approximately 1,200 feet long, 15 to 30 feet wide, 2 feet in depth on average, and approximately 8 feet in depth at the deepest excavation location.

2.2 Soil Sampling Activities

Upon the completion of excavation activities, on May 7, 2007, grab samples were collected from north sidewall (SW-2, SW-3, and SW-4), the south sidewall (SW-5 and SW-6), and the west sidewall (SW-1) to document the successful removal of soil impacted above NMOCD remedial thresholds (reference Figure 2). In addition, grab samples were also collected from the bottom of the excavation area (BH-1 thru BH-5) as referenced in Figure 2. The sidewall samples, as well as the samples from the bottom of the excavation area, were submitted to TraceAnalysis, Inc. in Midland, Texas for BTEX analysis by EPA method 8021B and TPH analysis by EPA method 8015. The chain-of-custody forms and laboratory data sheets are provided in Appendix C.

Furthermore, on May 7, 2007, ten five-point composite stockpile samples (SP-1 thru SP-10) were collected from the excavated soil stockpiled onsite (reference Figure 2). The stockpile samples were submitted to TraceAnalysis, Inc. in Midland, Texas for TPH analysis by EPA method 8015. The chain-of-custody forms and laboratory data sheets are provided in Appendix C.

2.2 Analytical Procedures

The soil samples were placed in laboratory prepared glassware and sealed with custody tape. The samples were placed in coolers and relinquished to TraceAnalysis, Inc. in Midland, Texas for analysis. The soil samples were analyzed for BTEX using EPA method 8021B and TPH by EPA method 8015. The chain-of-custody forms and laboratory data sheets are provided in Appendix C.

2.4 Soil Sampling Results

Laboratory analyses of the samples collected on May 7, 2007 showed all sampling locations in the excavated area, with the exception of BH-2 (112 mg/Kg TPH) and BH-4 (231 mg/Kg TPH) to be below the NMOCD remedial thresholds (reference Table 1). Due to the proximity of the sample concentration of BH-2 (112 mg/Kg TPH) to the NMOCD remedial threshold for TPH (100 mg/Kg), the excavation area containing the sample location for sample BH-2 was not over-excavated. The reasoning behind this decision was that the sample concentration of 112 mg/Kg was within the margin of error cited by the laboratory's QA/QC documentation. The excavation area containing the sample location for sample

BH-4 was over-excavated one foot in depth, bringing the sample location excavation depth to eight feet in this area. On May 12, 2007, upon the completion of the over-excavation activities, a grab sample was taken from the bottom of the excavation area (BH-4A) as referenced in Figure 2. Laboratory analyses of the sample BH-4A showed the excavation area to be below the NMOCD remedial thresholds (reference Table 1). Each of the composite stockpile samples exhibited TPH concentrations above the NMOCD remedial threshold of 100 ppm for TPH (reference Table 1).

2.5 Soil Remediation Activities

The excavation confirmation soil samples indicated TPH and Total BTEX concentrations below NMOCD remedial threshold limits for all sample locations other than BH-2, which was not over-excavated. Due to TPH concentrations above the NMOCD remedial thresholds in the stockpiled soil, the excavated rock greater in two inches in size was screened utilizing a soil/rock screener and separated from the stockpiled soil. As a result, approximately 4,230 cubic yards of stockpiled soil was separated from 1,400 cubic yards of rock. The screened soils were then transported to an NMOCD approved landfarm.

2.6 Site Restoration Activities

Subsequent to soil remediation activities, the excavation site was backfilled with both imported fill material, as well as approximately 1,400 hundred cubic yards of screened rock from the excavation area. A backhoe, bulldozer and loader were utilized to restore the site to natural grade. On September 10, 2007, two feet of topsoil was placed over all areas to be revegetated and the site was seeded with a seed mix recommended by the New Mexico State Land Office.

3.0 CONCLUSIONS

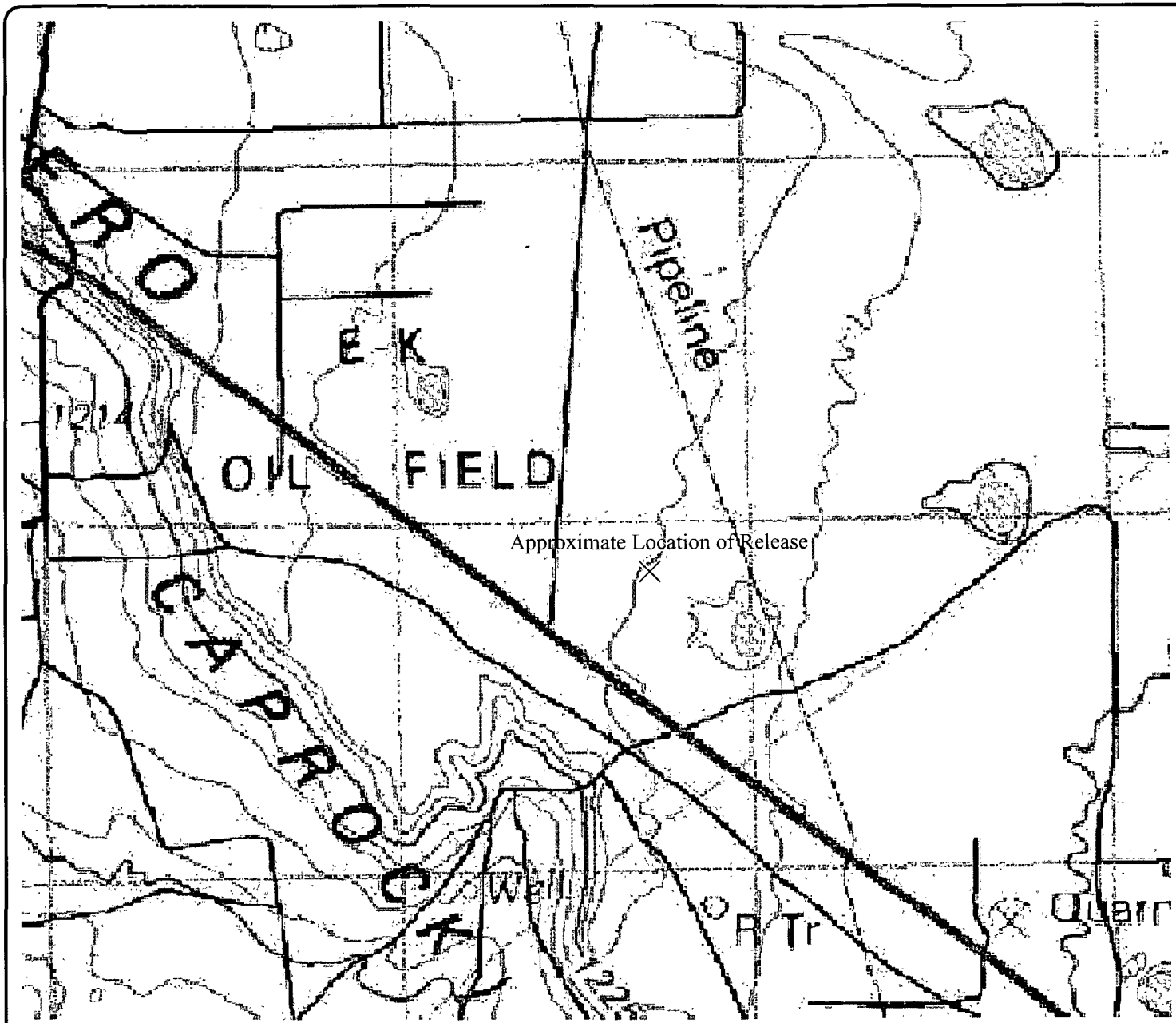
3.1 Recommendations

Based upon the findings of this investigation, Talon/LPE makes no further recommendations for future remediation activities in regard to this release. Talon/LPE proposes that this report be the final action in regards to the soil investigation and remediation activities at the site and recommends that Plains submit a copy of this report to the NMOCD. Furthermore, Talon/LPE requests that the NMOCD issue a letter to Plains requiring no further action in regard to this site.

Appendix A

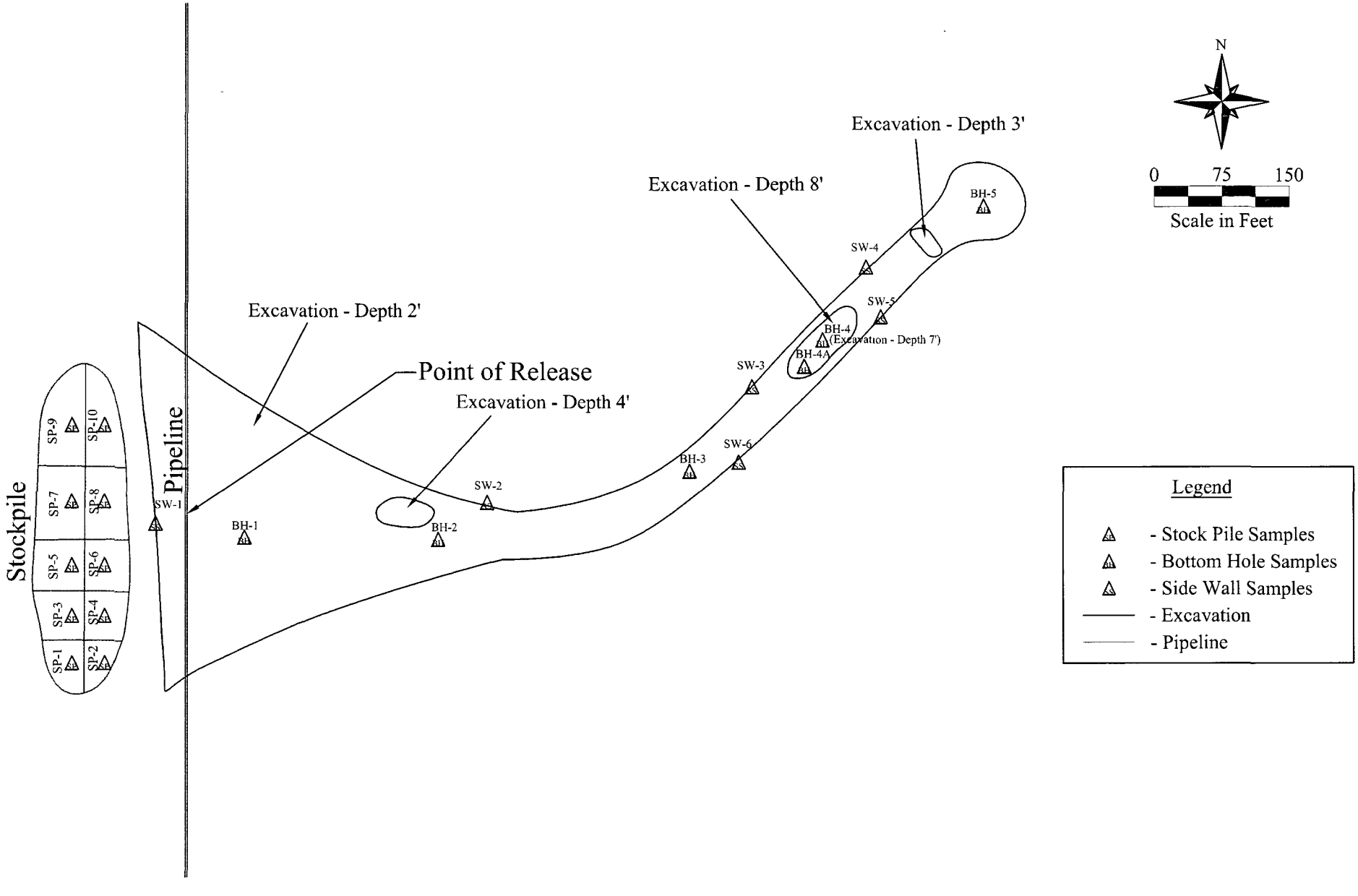
Drawings

Figure 1 – Topographic Map
Figure 2 – Site Map With Confirmation Sampling Locations



Date:	05/07/2007
Scale:	1" = 1000'
Drawn By:	WDR

E. K. Queen State (PLAINS048SPL)
SRS # 2007-058
Lea County, New Mexico
Figure 1 - Topographic Map (Ironhouse Well - 1984)



TALON LPE

Date:	05/11/2007
Scale:	1" = 150'
Drawn By:	WDR

E. K. Queen State (PLAINS048SPL)
SRS # 2007-058
Lea County, New Mexico
Figure 2 - Site Plan with Confirmation Sampling Locations

APPENDIX B

Tables

Table 1 – Summary of Soil Analytical Data

TALONLPE

Table 1
Summary of Soil Analytical Data
Plains Pipeline, L.P.
EK Queen State
Lea County, NM SRS# 2007-058
Talon/LPE Project Number PLAINS048SPL

Sample Designation	Date Sampled	Concentration								
			mg/Kg			mg/Kg				
		Status	TPH DRO	TPH GRO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
SP-1	05/07/07		130	25.6	**156**	NS	NS	NS	NS	NS
SP-2	05/07/07		1,720	1,010	**2,730**	NS	NS	NS	NS	NS
SP-3	05/07/07		26,400	2,310	**28,710**	NS	NS	NS	NS	NS
SP-4	05/07/07		10,300	5,940	**16,240**	NS	NS	NS	NS	NS
SP-5	05/07/07		16,300	3,420	**19,720**	NS	NS	NS	NS	NS
SP-6	05/07/07		2,950	2,280	**5,230**	NS	NS	NS	NS	NS
SP-7	05/07/07		17,600	1,050	**18,650**	NS	NS	NS	NS	NS
SP-8	05/07/07		4,280	1,870	**6,150**	NS	NS	NS	NS	NS
SP-9	05/07/07		2,170	228	**2,398**	NS	NS	NS	NS	NS
SP-10	05/07/07		1,600	605	**2,205**	NS	NS	NS	NS	NS
SW-1	05/07/07	Excavated	<50.0	19.0	<50.0	<0.0100	<0.0100	0.0398	0.110	0.1498
SW-2	05/07/07	Excavated	<50.0	9.58	<50.0	<0.0100	<0.0100	<0.0100	0.0542	0.0542
SW-3	05/07/07	Excavated	<50.0	6.36	<50.0	<0.0100	<0.0100	<0.0100	0.0419	0.0419
SW-4	05/07/07	Excavated	<50.0	5.09	<50.0	<0.0100	<0.0100	<0.0100	0.0349	0.0349
SW-5	05/07/07	Excavated	<50.0	4.36	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
SW-6	05/07/07	Excavated	<50.0	3.19	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
BH-1	05/07/07	Excavated	<50.0	2.88	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
BH-2	05/07/07	Excavated	112	4.18	**116**	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
BH-3	05/07/07	Excavated	76.4	2.94	79.3	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
BH-4	05/07/07	Excavated	227	4.12	**231**	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
BH-5	05/07/07	Excavated	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	0.0289	0.0289
BH-4A	05/12/07	Excavated	58.5	3.85	62.3	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
NMOCD Remediation Guildelines					**100**	**10**				**50**

[1] ***Bolded*** *values are in excess of the NMOCD Remediation Thresholds*
[2] *NS - not sampled*

APPENDIX C

Laboratory Analytical Data Sheets and Chain of Custody Documentation

TRACEANALYSIS, INC.

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

Eb Taylor
Talon LPE-Hobbs
318 E Taylor
Hobbs, TX, 88240

Report Date: May 10, 2007

Work Order: 7050812

Project Location: Lea County, NM
Project Name: EK Queen State
Project Number: Plains048SPL

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
123592	SP-1	soil	2007-05-07	09:50	2007-05-08
123593	SP-2	soil	2007-05-07	10:04	2007-05-08
123594	SP-3	soil	2007-05-07	10:15	2007-05-08
123595	SP-4	soil	2007-05-07	10:30	2007-05-08
123596	SP-5	soil	2007-05-07	10:43	2007-05-08
123597	SP-6	soil	2007-05-07	10:59	2007-05-08
123598	SP-7	soil	2007-05-07	11:12	2007-05-08
123599	SP-8	soil	2007-05-07	11:28	2007-05-08
123600	SP-9	soil	2007-05-07	11:42	2007-05-08
123601	SP-10	soil	2007-05-07	11:57	2007-05-08

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.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project EK Queen State were received by TraceAnalysis, Inc. on 2007-05-08 and assigned to work order 7050812. Samples for work order 7050812 were received intact at a temperature of 3 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7050812 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 123592 - SP-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**130**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		94.0	mg/Kg	1	150	63	61.7 - 143.2

Sample: 123592 - SP-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**25.6**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.791	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	1	1.00	138	67.5 - 140.3

Sample: 123593 - SP-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1720**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	269	mg/Kg	1	150	179	61.7 - 143.2

Sample: 123593 - SP-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

[1] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1010**	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		84.6	mg/Kg	100	100	85	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		104	mg/Kg	100	100	104	67.5 - 140.3

Sample: 123594 - SP-3

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37108	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32183	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**26400**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	788	mg/Kg	5	150	525	61.7 - 143.2

Sample: 123594 - SP-3

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2310**	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		86.2	mg/Kg	100	100	86	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		138	mg/Kg	100	100	138	67.5 - 140.3

Sample: 123595 - SP-4

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37108	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32183	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**10300**	mg/Kg	5	50.0

[2]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[3]	804	mg/Kg	5	150	536	61.7 - 143.2

Sample: 123595 - SP-4

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5940**	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		110	mg/Kg	100	100	110	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[4]	236	mg/Kg	100	100	236	67.5 - 140.3

Sample: 123596 - SP-5

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37108	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32183	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**16300**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[5]	278	mg/Kg	5	150	185	61.7 - 143.2

Sample: 123596 - SP-5

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**3420**	mg/Kg	200	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		161	mg/Kg	200	200	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		258	mg/Kg	200	200	129	67.5 - 140.3

[3]High surrogate recovery due to peak interference.
[4]High surrogate recovery due to peak interference.
[5]High surrogate recovery due to peak interference.

Sample: 123597 - SP-6

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2950**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[6]	387	mg/Kg	1	150	258	61.7 - 143.2

Sample: 123597 - SP-6

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2280**	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		85.9	mg/Kg	100	100	86	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[7]	143	mg/Kg	100	100	143	67.5 - 140.3

Sample: 123598 - SP-7

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37108	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32183	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**17600**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[8]	729	mg/Kg	5	150	486	61.7 - 143.2

Sample: 123598 - SP-7

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

[6]High surrogate recovery due to peak interference.
[7]High surrogate recovery due to peak interference.
[8]High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1050**	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		46.8	mg/Kg	50	50.0	94	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		61.8	mg/Kg	50	50.0	124	67.5 - 140.3

Sample: 123599 - SP-8

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**4280**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[9]	380	mg/Kg	1	150	253	61.7 - 143.2

Sample: 123599 - SP-8

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1870**	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		85.7	mg/Kg	100	100	86	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		128	mg/Kg	100	100	128	67.5 - 140.3

Sample: 123600 - SP-9

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2170**	mg/Kg	1	50.0

[9]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		176	mg/Kg	1	150	117	61.7 - 143.2

Sample: 123600 - SP-9

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**228**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		17.8	mg/Kg	20	20.0	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		19.7	mg/Kg	20	20.0	98	67.5 - 140.3

Sample: 123601 - SP-10

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1600**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		177	mg/Kg	1	150	118	61.7 - 143.2

Sample: 123601 - SP-10

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**605**	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		46.1	mg/Kg	50	50.0	92	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		49.9	mg/Kg	50	50.0	100	67.5 - 140.3

Method Blank (1) QC Batch: 37068

QC Batch: 37068 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

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		102	mg/Kg	1	150	68	61.7 - 143.2

Method Blank (1) QC Batch: 37075

QC Batch: 37075 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

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)		0.887	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	67.5 - 140.3

Method Blank (1) QC Batch: 37108

QC Batch: 37108 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32183 | QC Preparation: 2007-05-09 | Prepared By: MS

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		104	mg/Kg	1	150	69	61.7 - 143.2

Method Blank (1) QC Batch: 37117

QC Batch: 37117 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.872	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.904	mg/Kg	1	1.00	90	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.952	mg/Kg	1	1.00	95	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: 37068 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	264	mg/Kg	1	250	<13.4	106	62.5 - 135.4

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	314	mg/Kg	1	250	<13.4	126	62.5 - 135.4	17	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	116	131	mg/Kg	1	150	77	87	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37075 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.92	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5

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	8.34	mg/Kg	1	10.0	<0.739	83	57.7 - 102.5	5	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)	1.18	1.20	mg/Kg	1	1.00	118	120	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.00	1.01	mg/Kg	1	1.00	100	101	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37108 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32183 | QC Preparation: 2007-05-09 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	220	mg/Kg	1	250	<13.4	88	62.5 - 135.4

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	218	mg/Kg	1	250	<13.4	87	62.5 - 135.4	1	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	122	100	mg/Kg	1	150	81	67	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37117 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.35	mg/Kg	1	10.0	<0.739	84	57.7 - 102.5

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	7.21	mg/Kg	1	10.0	<0.739	72	57.7 - 102.5	15	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)	1.19	0.814	mg/Kg	1	1.00	119	81	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.01	1.00	mg/Kg	1	1.00	101	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 123603

QC Batch: 37068 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	383	mg/Kg	1	250	<13.4	153	29.7 - 168.6

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	361	mg/Kg	1	250	<13.4	144	29.7 - 168.6	6	20

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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.908	91	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37075 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.968	97	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37108 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2007-05-09

Standard (CCV-2)

QC Batch: 37108 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	85 - 115	2007-05-09

Standard (ICV-1)

QC Batch: 37117 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2007-05-09

Standard (CCV-1)

QC Batch: 37117 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.00	100	85 - 115	2007-05-09

LAB Order ID # 7050812 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: TALON LPE

Phone #: 505 393-4261

Address: (Street, City, Zip) 318 E. Taylor HOBBS N.M.

Fax #: 505 393-4658

Contact Person: EB Taylor

E-mail: etaylor@talonlpe.com

Invoice to: (If different from above) PLAINS

Project #: PLAINS 048 SPL

Project Name: EK QUEEN 6" STATE

Project Location (including state): LEA County NEW MEXICO

Sampler Signature: EB

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
23592	SP-1	1												5/7	9:50				X															
593	SP-2	1												5/7	10:04																			
594	SP-3	1												5/7	10:15																			
595	SP-4	1												5/7	10:30																			
596	SP-5	1												5/7	10:43																			
597	SP-6	1												5/7	10:59																			
598	SP-7	1												5/7	11:12																			
599	SP-8	1												5/7	11:28																			
600	SP-9	1												5/7	11:42																			
601	SP-10	1												5/7	11:57																			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
EB Taylor	5/8/07	6:22		5/8/07	6:23
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				5-9-07	10:50

LAB USE ONLY

Intact: (Y) / N

Headspace: Y / N

Temp: 3 °

Log-In-Review: MS

REMARKS: PLEASE E-MAIL RESULTS TO MSTROOPE@TALONLPE.COM + ETAYLOR@TALONLPE.COM

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Courier

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Eb Taylor
Talon LPE-Hobbs
318 E Taylor
Hobbs, TX, 88240

Report Date: May 10, 2007

Work Order: 7050813

Project Location: Lea County, NM
Project Name: EK Queen State
Project Number: Plains048SPL

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
123602	SW-1	soil	2007-05-07	12:15	2007-05-08
123603	SW-2	soil	2007-05-07	12:35	2007-05-08
123604	SW-3	soil	2007-05-07	12:51	2007-05-08
123605	SW-4	soil	2007-05-07	13:03	2007-05-08
123606	SW-5	soil	2007-05-07	13:18	2007-05-08
123607	SW-6	soil	2007-05-07	13:31	2007-05-08
123608	BH-1	soil	2007-05-07	13:57	2007-05-08
123609	BH-2	soil	2007-05-07	14:10	2007-05-08
123610	BH-3	soil	2007-05-07	14:27	2007-05-08
123611	BH-4	soil	2007-05-07	14:48	2007-05-08
123612	BH-5	soil	2007-05-07	15:09	2007-05-08

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.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project EK Queen State were received by TraceAnalysis, Inc. on 2007-05-08 and assigned to work order 7050813. Samples for work order 7050813 were received intact at a temperature of 3 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7050813 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 123602 - SW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		**0.0398**	mg/Kg	1	0.0100
Xylene		**0.110**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.866	mg/Kg	1	1.00	87	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123602 - SW-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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	61.7 - 143.2

Sample: 123602 - SW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**19.0**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.804	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	67.5 - 140.3

Sample: 123603 - SW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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		**0.0542**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.878	mg/Kg	1	1.00	88	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.829	mg/Kg	1	1.00	83	51.1 - 119.1

Sample: 123603 - SW-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		138	mg/Kg	1	150	92	61.7 - 143.2

Sample: 123603 - SW-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**9.58**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	67.5 - 140.3

Sample: 123604 - SW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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		**0.0419**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.855	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.828	mg/Kg	1	1.00	83	51.1 - 119.1

Sample: 123604 - SW-3

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		113	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123604 - SW-3

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**6.36**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.780	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.30	mg/Kg	1	1.00	130	67.5 - 140.3

Sample: 123605 - SW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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		**0.0349**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.857	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.834	mg/Kg	1	1.00	83	51.1 - 119.1

Sample: 123605 - SW-4

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		190	mg/Kg	1	150	127	61.7 - 143.2

Sample: 123605 - SW-4

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.09**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.793	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.31	mg/Kg	1	1.00	131	67.5 - 140.3

Sample: 123606 - SW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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)		0.856	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.835	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123606 - SW-5

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		151	mg/Kg	1	150	101	61.7 - 143.2

Sample: 123606 - SW-5

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**4.36**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.785	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	67.5 - 140.3

Sample: 123607 - SW-6

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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)		0.866	mg/Kg	1	1.00	87	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.837	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123607 - SW-6

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		139	mg/Kg	1	150	93	61.7 - 143.2

Sample: 123607 - SW-6

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**3.19**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.795	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	67.5 - 140.3

Sample: 123608 - BH-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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)		0.854	mg/Kg	1	1.00	85	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.836	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123608 - BH-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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		109	mg/Kg	1	150	73	61.7 - 143.2

Sample: 123608 - BH-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2.88**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.782	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.19	mg/Kg	1	1.00	119	67.5 - 140.3

Sample: 123609 - BH-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	Result	RL	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)		0.884	mg/Kg	1	1.00	88	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.850	mg/Kg	1	1.00	85	51.1 - 119.1

Sample: 123609 - BH-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**112**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		113	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123609 - BH-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**4.18**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.810	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	67.5 - 140.3

Sample: 123610 - BH-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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)		0.862	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123610 - BH-3

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**76.4**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123610 - BH-3

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2.94**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.794	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	67.5 - 140.3

Sample: 123611 - BH-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

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)		0.860	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.824	mg/Kg	1	1.00	82	51.1 - 119.1

Sample: 123611 - BH-4

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**227**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		118	mg/Kg	1	150	79	61.7 - 143.2

Sample: 123611 - BH-4

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32159	Sample Preparation:	2007-05-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**4.12**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.789	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	67.5 - 140.3

Sample: 123612 - BH-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37116	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

Parameter	Flag	Result	RL	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		**0.0289**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.853	mg/Kg	1	1.00	85	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.849	mg/Kg	1	1.00	85	51.1 - 119.1

Sample: 123612 - BH-5

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37069	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	Sample Preparation:	2007-05-08	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		97.0	mg/Kg	1	150	65	61.7 - 143.2

Sample: 123612 - BH-5

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	Sample Preparation:	2007-05-09	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	67.5 - 140.3

Method Blank (1) QC Batch: 37068

QC Batch:	37068	Date Analyzed:	2007-05-08	Analyzed By:	AG
Prep Batch:	32157	QC Preparation:	2007-05-08	Prepared By:	MS

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		102	mg/Kg	1	150	68	61.7 - 143.2

Method Blank (1) QC Batch: 37069

QC Batch: 37069 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

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		176	mg/Kg	1	150	117	61.7 - 143.2

Method Blank (1) QC Batch: 37074

QC Batch: 37074 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

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)		0.837	mg/Kg	1	1.00	84	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.815	mg/Kg	1	1.00	82	53.9 - 125.1

Method Blank (1) QC Batch: 37075

QC Batch: 37075 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

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)		0.887	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	67.5 - 140.3

Method Blank (1) QC Batch: 37116

QC Batch: 37116 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

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)		0.872	mg/Kg	1	1.00	87	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.747	mg/Kg	1	1.00	75	53.9 - 125.1

Method Blank (1) QC Batch: 37117

QC Batch: 37117 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.872	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.904	mg/Kg	1	1.00	90	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.952	mg/Kg	1	1.00	95	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: 37068 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	264	mg/Kg	1	250	<13.4	106	62.5 - 135.4

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

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control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	314	mg/Kg	1	250	<13.4	126	62.5 - 135.4	17	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	116	131	mg/Kg	1	150	77	87	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37069 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	291	mg/Kg	1	250	<13.4	116	62.5 - 135.4

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	308	mg/Kg	1	250	<13.4	123	62.5 - 135.4	6	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	132	124	mg/Kg	1	150	88	83	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37074 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.938	mg/Kg	1	1.00	<0.00110	94	68.6 - 123.4
Toluene	0.954	mg/Kg	1	1.00	<0.00150	95	74.6 - 119.3
Ethylbenzene	0.947	mg/Kg	1	1.00	<0.00160	95	72.3 - 126.2
Xylene	2.87	mg/Kg	1	3.00	<0.00410	96	76.5 - 121.6

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	0.955	mg/Kg	1	1.00	<0.00110	96	68.6 - 123.4	2	20
Toluene	0.956	mg/Kg	1	1.00	<0.00150	96	74.6 - 119.3	0	20
Ethylbenzene	0.948	mg/Kg	1	1.00	<0.00160	95	72.3 - 126.2	0	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Xylene	2.87	mg/Kg	1	3.00	<0.00410	96	76.5 - 121.6	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)	0.777	0.776	mg/Kg	1	1.00	78	78	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.793	0.798	mg/Kg	1	1.00	79	80	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 37075 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.92	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5

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	8.34	mg/Kg	1	10.0	<0.739	83	57.7 - 102.5	5	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)	1.18	1.20	mg/Kg	1	1.00	118	120	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.00	1.01	mg/Kg	1	1.00	100	101	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37116 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.907	mg/Kg	1	1.00	<0.00110	91	68.6 - 123.4
Toluene	0.917	mg/Kg	1	1.00	<0.00150	92	74.6 - 119.3
Ethylbenzene	0.906	mg/Kg	1	1.00	<0.00160	91	72.3 - 126.2
Xylene	2.74	mg/Kg	1	3.00	<0.00410	91	76.5 - 121.6

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	0.923	mg/Kg	1	1.00	<0.00110	92	68.6 - 123.4	2	20
Toluene	0.932	mg/Kg	1	1.00	<0.00150	93	74.6 - 119.3	2	20
Ethylbenzene	0.922	mg/Kg	1	1.00	<0.00160	92	72.3 - 126.2	2	20
Xylene	2.79	mg/Kg	1	3.00	<0.00410	93	76.5 - 121.6	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)	0.766	0.769	mg/Kg	1	1.00	77	77	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.776	0.770	mg/Kg	1	1.00	78	77	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 37117 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.35	mg/Kg	1	10.0	<0.739	84	57.7 - 102.5

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	7.21	mg/Kg	1	10.0	<0.739	72	57.7 - 102.5	15	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)	1.19	0.814	mg/Kg	1	1.00	119	81	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.01	1.00	mg/Kg	1	1.00	101	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 123603

QC Batch: 37068 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	383	mg/Kg	1	250	<13.4	153	29.7 - 168.6

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	361	mg/Kg	1	250	<13.4	144	29.7 - 168.6	6	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	114	120	mg/Kg	1	150	76	80	43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 123612

QC Batch: 37069 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32157 | QC Preparation: 2007-05-08 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	173	mg/Kg	1	250	<13.4	69	29.7 - 168.6

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	211	mg/Kg	1	250	<13.4	84	29.7 - 168.6	20	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	85.5	83.7	mg/Kg	1	150	57	56	43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 123611

QC Batch: 37074 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.865	mg/Kg	1	1.00	<0.00110	86	64.4 - 115.7
Toluene	0.898	mg/Kg	1	1.00	<0.00150	90	57.8 - 124.4
Ethylbenzene	0.906	mg/Kg	1	1.00	<0.00160	91	64.8 - 125.8
Xylene	2.74	mg/Kg	1	3.00	<0.00410	91	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	0.889	mg/Kg	1	1.00	<0.00110	89	64.4 - 115.7	3	20
Toluene	0.927	mg/Kg	1	1.00	<0.00150	93	57.8 - 124.4	3	20
Ethylbenzene	0.952	mg/Kg	1	1.00	<0.00160	95	64.8 - 125.8	5	20
Xylene	2.89	mg/Kg	1	3.00	<0.00410	96	65.2 - 121.8	5	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)	0.770	0.755	mg/Kg	1	1	77	76	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.802	0.806	mg/Kg	1	1	80	81	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 123611

QC Batch: 37075 | Date Analyzed: 2007-05-08 | Analyzed By: AG
Prep Batch: 32159 | QC Preparation: 2007-05-08 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.08	mg/Kg	1	10.0	4.12	50	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	9.70	mg/Kg	1	10.0	4.12	56	10 - 141.5	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)	0.661	0.673	mg/Kg	1	1	66	67	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.17	1.15	mg/Kg	1	1	117	115	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 123612

QC Batch: 37116 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.901	mg/Kg	1	1.00	<0.00110	90	64.4 - 115.7
Toluene	0.939	mg/Kg	1	1.00	<0.00150	94	57.8 - 124.4
Ethylbenzene	0.954	mg/Kg	1	1.00	<0.00160	95	64.8 - 125.8
Xylene	2.89	mg/Kg	1	3.00	0.0289	95	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	0.893	mg/Kg	1	1.00	<0.00110	89	64.4 - 115.7	1	20
Toluene	0.935	mg/Kg	1	1.00	<0.00150	94	57.8 - 124.4	0	20
Ethylbenzene	0.950	mg/Kg	1	1.00	<0.00160	95	64.8 - 125.8	0	20
Xylene	2.88	mg/Kg	1	3.00	0.0289	95	65.2 - 121.8	0	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)	0.766	0.767	mg/Kg	1	1	77	77	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.807	0.793	mg/Kg	1	1	81	79	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 123612

QC Batch: 37117 | Date Analyzed: 2007-05-09 | Analyzed By: AG
Prep Batch: 32190 | QC Preparation: 2007-05-09 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.36	mg/Kg	1	10.0	0.9561	54	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	6.54	mg/Kg	1	10.0	0.9561	56	10 - 141.5	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
Trifluorotoluene (TFT)	0.709	0.702	mg/Kg	1	1	71	70	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.08	1.08	mg/Kg	1	1	108	108	86.7 - 144.5

Standard (CCV-1)

QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	287	115	85 - 115	2007-05-08

Standard (CCV-2)

QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	220	88	85 - 115	2007-05-08

Standard (CCV-3)

QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	234	94	85 - 115	2007-05-08

Standard (ICV-1)

QC Batch: 37069 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37069 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	220	88	85 - 115	2007-05-08

Standard (ICV-1)

QC Batch: 37074 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0920	92	85 - 115	2007-05-08
Toluene		mg/Kg	0.100	0.0936	94	85 - 115	2007-05-08
Ethylbenzene		mg/Kg	0.100	0.0934	93	85 - 115	2007-05-08
Xylene		mg/Kg	0.300	0.284	95	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37074 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0969	97	85 - 115	2007-05-08
Toluene		mg/Kg	0.100	0.0979	98	85 - 115	2007-05-08
Ethylbenzene		mg/Kg	0.100	0.0954	95	85 - 115	2007-05-08
Xylene		mg/Kg	0.300	0.289	96	85 - 115	2007-05-08

Standard (ICV-1)

QC Batch: 37075 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.908	91	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37075 Date Analyzed: 2007-05-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.968	97	85 - 115	2007-05-08

Standard (ICV-1)

QC Batch: 37116 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0903	90	85 - 115	2007-05-09
Toluene		mg/Kg	0.100	0.0919	92	85 - 115	2007-05-09

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		mg/Kg	0.100	0.0911	91	85 - 115	2007-05-09
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2007-05-09

Standard (CCV-1)

QC Batch: 37116 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0913	91	85 - 115	2007-05-09
Toluene		mg/Kg	0.100	0.0919	92	85 - 115	2007-05-09
Ethylbenzene		mg/Kg	0.100	0.0906	91	85 - 115	2007-05-09
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2007-05-09

Standard (ICV-1)

QC Batch: 37117 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2007-05-09

Standard (CCV-1)

QC Batch: 37117 Date Analyzed: 2007-05-09 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.00	100	85 - 115	2007-05-09

LAB Order ID # 705081 3 5.1.07 Page 1 of 1

TraceAnalysis, Inc.

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Invoice to: (If different from above) PLAINS
Project #: PLAINS 04858PL
Project Name: EK QUEEN 6" STATE
Project Location (including state): LEA COUNTY NEW MEXICO
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
123602	SW-1	1			X							X		5/7	12:15
603	SW-2	1			X							X		5/7	12:35
604	SW-3	1			X							X		5/7	12:51
605	SW-4	1			X							X		5/7	13:03
606	SW-5	1			X							X		5/7	13:18
607	SW-6	1			X							X		5/7	13:31
608	BH-1	1			X							X		5/7	13:57
609	BH-2	1			X							X		5/7	14:10
610	BH-3	1			X							X		5/7	14:27
611	BH-4	1			X							X		5/7	14:48
612	BH-5	1			X							X		5/7	15:09

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624
BTEX 8021B / 602 / 8260B / 624
TPH 418.1 / TX1005 / TX1005 Ext(C35)
TPH 8015 GRO / DRO / TVHC
PAH 8270C / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP Pesticides
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi Vol. 8270C / 625
PCB's 8082 / 608
Pesticides 8081A / 608
BOD, TSS, pH
Moisture Content
Turn Around Time if different from standard
Hold

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/8/07	6:22		5/8/07	6:23
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at laboratory by:	Date:	Time:
				5/8/07	10:50

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °
Log-in-Review MS

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Marc Stroope
Talon LPE-Hobbs
318 E Taylor
Hobbs, TX, 88240

Report Date: May 18, 2007

Work Order: 7051418

Project Location: Lea County, NM
Project Name: EK Queen State
Project Number: Plains048SPL

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
124019	BH-4A	soil	2007-05-12	09:00	2007-05-14

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 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project EK Queen State were received by TraceAnalysis, Inc. on 2007-05-14 and assigned to work order 7051418. Samples for work order 7051418 were received intact at a temperature of 3.5 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7051418 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 124019 - BH-4A

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37202	Date Analyzed:	2007-05-14	Analyzed By:	AG
Prep Batch:	32266	Sample Preparation:		Prepared By:	AG

Parameter	Flag	Result	RL	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)		0.808	mg/Kg	1	1.00	81	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.855	mg/Kg	1	1.00	86	51.1 - 119.1

Sample: 124019 - BH-4A

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37288	Date Analyzed:	2007-05-14	Analyzed By:	AG
Prep Batch:	32278	Sample Preparation:	2007-05-14	Prepared By:	MS

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**58.5**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		206	mg/Kg	1	150	137	32.9 - 167

Sample: 124019 - BH-4A

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37203	Date Analyzed:	2007-05-14	Analyzed By:	AG
Prep Batch:	32266	Sample Preparation:		Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**3.85**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.786	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	67.5 - 140.3

Method Blank (1) QC Batch: 37202

QC Batch: 37202 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

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)		0.804	mg/Kg	1	1.00	80	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.754	mg/Kg	1	1.00	75	53.9 - 125.1

Method Blank (1) QC Batch: 37203

QC Batch: 37203 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

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)		0.888	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.969	mg/Kg	1	1.00	97	67.5 - 140.3

Method Blank (1) QC Batch: 37288

QC Batch: 37288 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32278 | QC Preparation: 2007-05-14 | Prepared By: MS

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		174	mg/Kg	1	150	116	44.7 - 133.6

Laboratory Control Spike (LCS-1)

QC Batch: 37202 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.939	mg/Kg	1	1.00	<0.00110	94	68.6 - 123.4
Toluene	0.955	mg/Kg	1	1.00	<0.00150	96	74.6 - 119.3
Ethylbenzene	0.963	mg/Kg	1	1.00	<0.00160	96	72.3 - 126.2
Xylene	2.93	mg/Kg	1	3.00	<0.00410	98	76.5 - 121.6

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	0.916	mg/Kg	1	1.00	<0.00110	92	68.6 - 123.4	2	20
Toluene	0.933	mg/Kg	1	1.00	<0.00150	93	74.6 - 119.3	2	20
Ethylbenzene	0.944	mg/Kg	1	1.00	<0.00160	94	72.3 - 126.2	2	20
Xylene	2.87	mg/Kg	1	3.00	<0.00410	96	76.5 - 121.6	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)	0.746	0.709	mg/Kg	1	1.00	75	71	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.816	0.821	mg/Kg	1	1.00	82	82	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 37203 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.15	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5

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	8.25	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5	1	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)	1.12	1.17	mg/Kg	1	1.00	112	117	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.06	1.06	mg/Kg	1	1.00	106	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37288 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32278 | QC Preparation: 2007-05-14 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	221	mg/Kg	1	250	<14.6	88	47.5 - 144.1

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	192	mg/Kg	1	250	<14.6	77	47.5 - 144.1	14	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	174	179	mg/Kg	1	150	116	119	57.3 - 131.6

Matrix Spike (MS-1) Spiked Sample: 123929

QC Batch: 37202 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.920	mg/Kg	1	1.00	<0.00110	92	64.4 - 115.7
Toluene	0.948	mg/Kg	1	1.00	<0.00150	95	57.8 - 124.4
Ethylbenzene	0.969	mg/Kg	1	1.00	<0.00160	97	64.8 - 125.8
Xylene	2.94	mg/Kg	1	3.00	<0.00410	98	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	0.915	mg/Kg	1	1.00	<0.00110	92	64.4 - 115.7	0	20
Toluene	0.952	mg/Kg	1	1.00	<0.00150	95	57.8 - 124.4	0	20
Ethylbenzene	0.987	mg/Kg	1	1.00	<0.00160	99	64.8 - 125.8	2	20
Xylene	3.01	mg/Kg	1	3.00	<0.00410	100	65.2 - 121.8	2	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)	0.722	0.733	mg/Kg	1	1	72	73	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.833	0.836	mg/Kg	1	1	83	84	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 124019

QC Batch: 37203 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32266 | QC Preparation: 2007-05-14 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.72	mg/Kg	1	10.0	3.85	49	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	7.60	mg/Kg	1	10.0	3.85	38	10 - 141.5	14	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)	0.688	0.698	mg/Kg	1	1	69	70	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.26	1.22	mg/Kg	1	1	126	122	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 124019

QC Batch: 37288 | Date Analyzed: 2007-05-14 | Analyzed By: AG
Prep Batch: 32278 | QC Preparation: 2007-05-14 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	282	mg/Kg	1	250	58.5	89	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	283	mg/Kg	1	250	58.5	113	11.7 - 152.3	0	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	186	183	mg/Kg	1	150	124	122	17 - 163.1

Standard (ICV-1)

QC Batch: 37202 | Date Analyzed: 2007-05-14 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0912	91	85 - 115	2007-05-14
Toluene		mg/Kg	0.100	0.0945	94	85 - 115	2007-05-14
Ethylbenzene		mg/Kg	0.100	0.0968	97	85 - 115	2007-05-14
Xylene		mg/Kg	0.300	0.295	98	85 - 115	2007-05-14

Standard (CCV-1)

QC Batch: 37202 | Date Analyzed: 2007-05-14 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0917	92	85 - 115	2007-05-14
Toluene		mg/Kg	0.100	0.0938	94	85 - 115	2007-05-14
Ethylbenzene		mg/Kg	0.100	0.0928	93	85 - 115	2007-05-14
Xylene		mg/Kg	0.300	0.282	94	85 - 115	2007-05-14

Standard (ICV-1)

QC Batch: 37203 | Date Analyzed: 2007-05-14 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	85 - 115	2007-05-14

Standard (CCV-1)

QC Batch: 37203 Date Analyzed: 2007-05-14 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.880	88	85 - 115	2007-05-14

Standard (ICV-1)

QC Batch: 37288 Date Analyzed: 2007-05-14 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	242	97	85 - 115	2007-05-14

Standard (CCV-1)

QC Batch: 37288 Date Analyzed: 2007-05-14 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	236	94	85 - 115	2007-05-14

LAB Order ID # 7051418 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: TAION LPE
Phone #: 505 393-4261
Address: (Street, City, Zip) 318 E TAYLOR HOBBS NM
Fax #: 505 393-4558
Contact Person: EB TAYLOR
E-mail: eTaylor@Taionlpe.com mstroope@Taionlpe.com
Invoice to: (If different from above)
Project #: PIAINS0485PL
Project Name: E K QUEEN TRUNK STATE
Project Location (including state): LEA COUNTY NEW MEXICO
Sampler Signature: EB

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
124019	~~SP~~ BH-4A	1			✓							✓		5/12/07	9:00

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
124019		X	X	X															

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
EB Taylor	5/14/07	6:00		5/14/07	6:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
	5/14/07	10:10		5/14/07	10:10

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB USE ONLY

Intact (Y) / N
Headspace Y / N
Temp 3.5
Log-in-Review MS

REMARKS:
Change SP to BH per Mark Stroope 5/14/07
All tests - Midland
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Carry In

APPENDIX D

Photograph Documentation

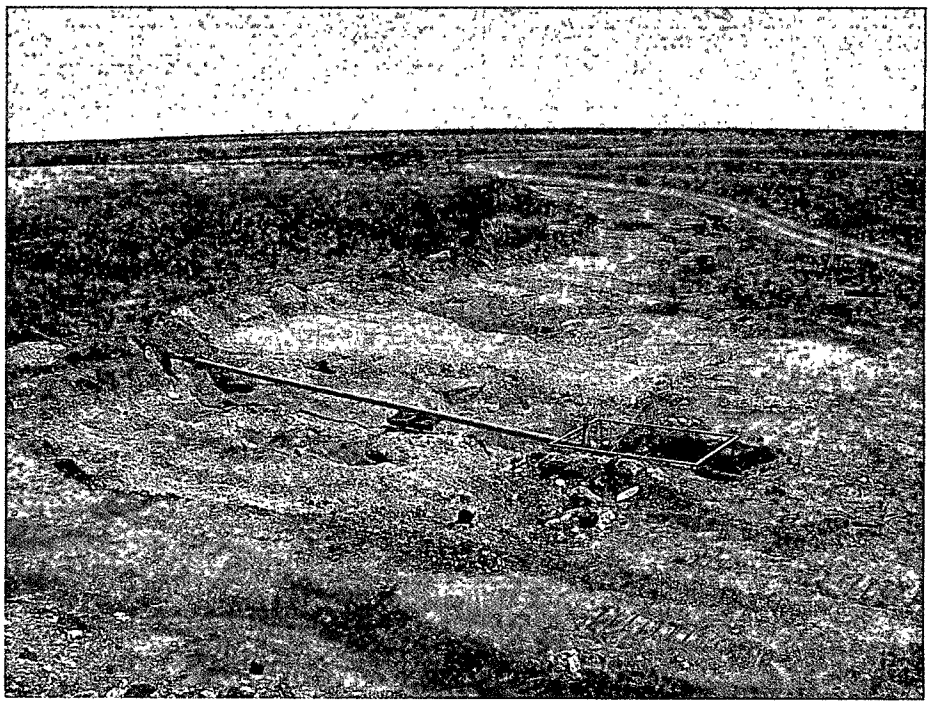
TALON/LPE

Client: Plains All American
Location: E.K. Queen State
Lea County, New Mexico

Photographic Documentation

Prepared by: Marc Stroope
Photographer: Marc Stroope
Project Number: PLAINS048SPL

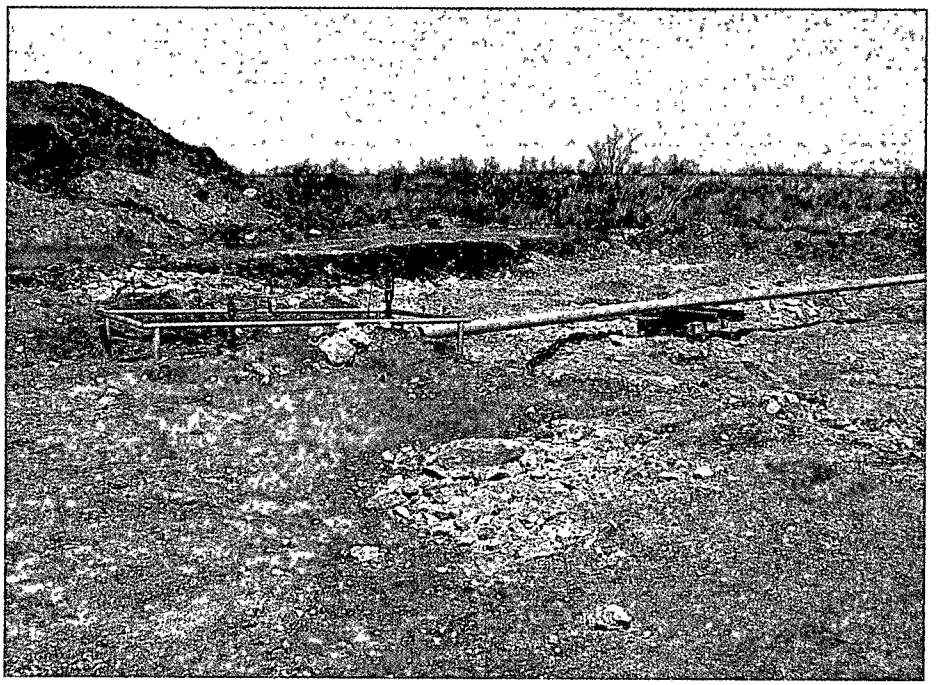
Photograph No. 1



Direction: East

Description: View of excavation area.

Photograph No. 2



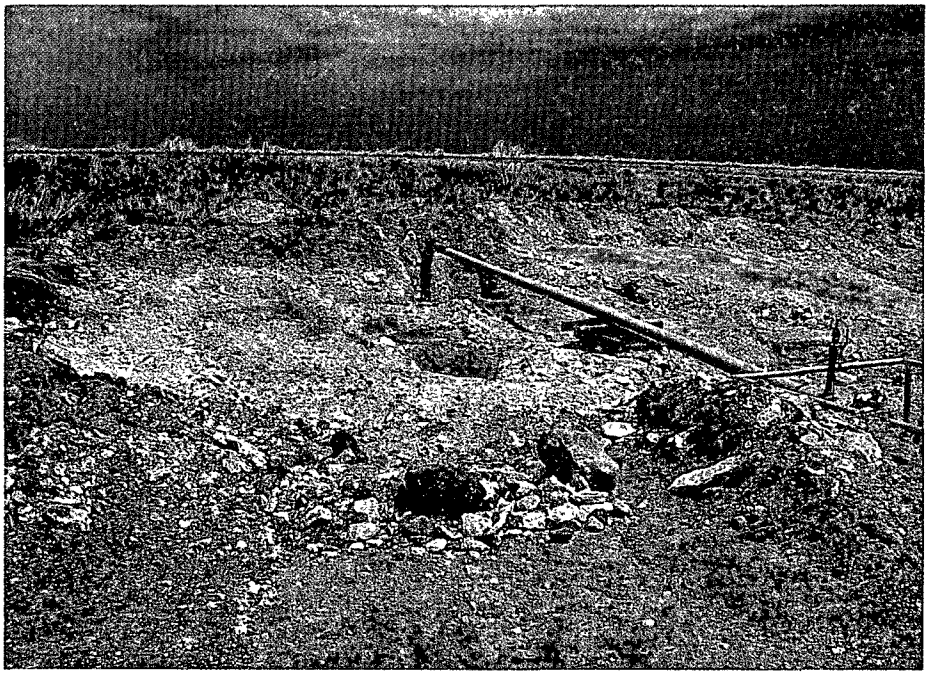
Direction: Northwest

Description: View of excavation area.

Photograph No. 3

Direction: North

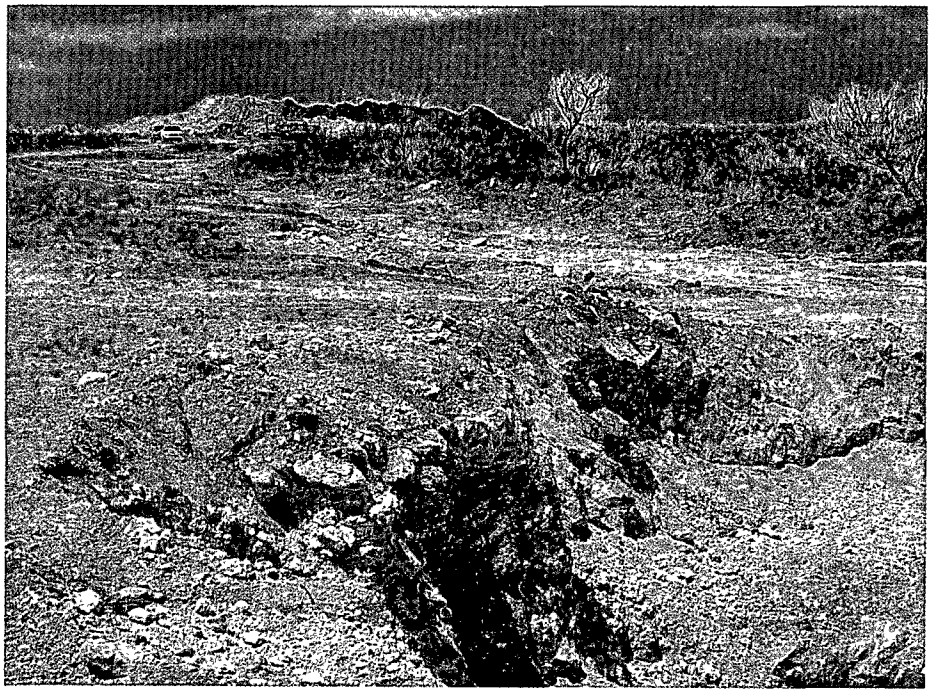
Description:
View of excavation area.



Photograph No. 4

Direction: Southwest

Description:
View of excavation area.

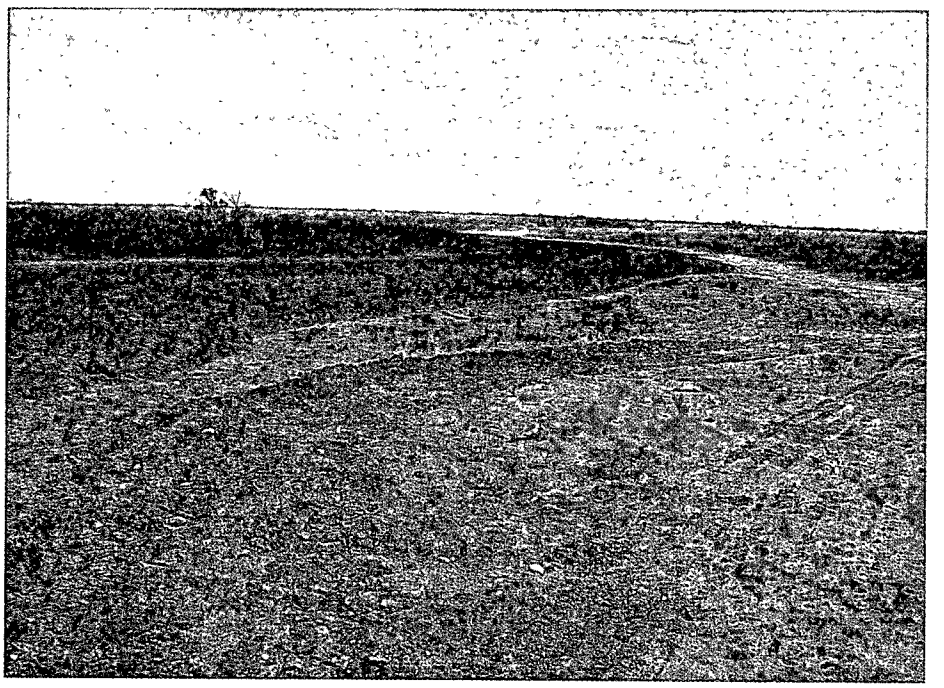


Photograph No. 5

Direction: Northwest

Description: View of backfilled area after reseeding.

Photograph No. 6



Direction: Southeast

Description: View of backfilled area after reseeding.

Photograph No. 7

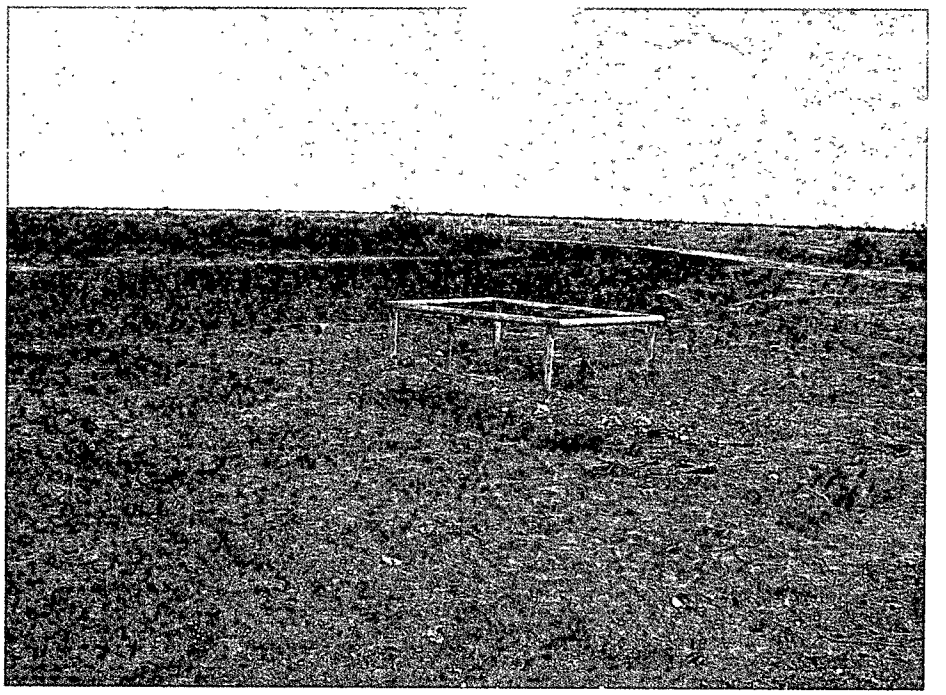
Direction: North

Description:
View of backfilled area after reseeding.

Photograph No. 8

Direction: Southeast

Description:
View of backfilled area after reseeding.



APPENDIX E

NMOCD C-141 Reports

Initial C-141 Report
Final C-141 Report

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-1
Revised October 10, 2

Submit 2 Copies to appropr
District Office in accorda
with Rule 116 on b
side of fo

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Re

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name E.K. Queen 6 Inch State	Facility Type 6"Steel Pipeline

Surface Owner SLO	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	20	18S	34E					Lea

GW ~98'

Latitude 32° 44' 12.4" Longitude 103° 34' 41.5"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 20 barrels	Volume Recovered 0 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 02/02/2007 @ 10:45	Date and Hour of Discovery 02/02/2007 @ 11:00
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 02/02/2007 @ 14:33	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken Internal corrosion of the 6 inch steel pipeline resulted in release of sweet crude oil. The line is a inch steel gathering line that produces approximately 433 barrels of oil per day. The pressure on the line is approximately 150 psi and the gravity of the sweet crude oil is 42. The sweet crude has an H_2S content of <10 ppm. The line is approximately 1.5 feet bgs at the release point.

Estimated 21645 sq ft. area of impact

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic.

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

Signature: Camille Reynolds

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 02/05/2007 Phone:505-441-0965

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRO ENGR

Approval Date: 6.28.07 Expiration Date: 8.30.07

Conditions of Approval: SUBMITTAL of FINAL C-141 BY

Attached ☐

* Attach Additional Sheets If Necessary

Facility - fPAC0703829486

RP# 1194

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
RP- 1194

OPERATOR

Initial Report ☒ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 West Hwy 82,Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name EK Queen 6" State 2007-058	Facility Type 6"Steel Pipeline

Surface Owner State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	20	18S	34E					Lea

Latitude 32° 44' 12.4" **Longitude** 103° 34' 41.5"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 20 barrels	Volume Recovered 0Barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 02/02/2007 @ 10:45	Date and Hour of Discovery 02/02/2007 @ 11:00
Was Immediate Notice Given? x Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 02/02/2007 @ 14:33	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* External corrosion of the 6 inch steel pipeline resulted in the release of sweet crude oil. The line is a 6 inch steel gathering line that produces approximately 433 barrels of oil per day. The pressure on the line is approximately 150 psi and the gravity of the sweet crude oil is 42. The sweet crude has an H2S content of <10 ppm. The line is approximately 1.5 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.*
As per the NMOCD approved Soils Remediation Work Plan dated May 23, 2007 the crude oil release area was excavated: impacted soil was placed adjacent to the excavation, confirmation soil samples were collected from the floor and walls of the excavation. Once confirmation samples were below NMOCD regulatory standards, the excavation was backfilled with both imported fill material, as well as screened rock from the excavation area. The area was restored to topographic grade and the site was subsequently revegatated with a seed mix recommended by the SLO.

Please see the attached Talon Soil Closure Report dated October 30, 2007 for details of remedial activities conducted for site closure.

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

Signature: Camille Reynolds	OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor: Johnson ENVIRONMENTAL ENGINEER
Title: Remediation Coordinator	Approval Date: 11.28.07 Expiration Date: —
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: — Attached ☐ RP-1194
Date: 11/28/2007 Phone:505-441-0965	