SOILS REMEDIATION WORKPLAN
E.K. QUEEN TRUNK
LEA COUNTY, NEW MEXICO
NMOCD REF. # RP-1167
SRS #2007-024

Section 19, Township 18 South, Range 34 East

Prepared for:

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Prepared by:

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September 15, 2007

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E.K. Queen Trunk
Soils Remediation Workplan

Plains Pipeline, L.P.
Houston, Texas

Talon/LPE PROJECT NO. PLAINS041SPL

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September 2007

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NMOCD – New Mexico Oil Conservation Division
BLM – New Mexico Bureau of Land Management

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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 Trunk 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 Trunk release site is located approximately 25 miles east of Loco Hills in Lea County, New Mexico. The GPS coordinates for the site are 32°43'44.1"N latitude and 103°36'01.3"W longitude. The release occurred on property owned by the United States Department of Interior Bureau of Land Management (BLM) and is utilized as pasture land. The site is located in a rural area with no residences or surface water within a 1,000 foot radius of the facility. A topographic map is provided as Figure 1 in Appendix A.

1.2 Site Background

In January 2007, a release of approximately ninety (90) barrels of crude oil occurred at the site due to internal corrosion of the pipeline, of which approximately seventy (70) barrels were recovered. Approximately sixteen thousand (16,000) square feet of surface area was impacted by the release. Based on excavation and over-excavation activities, approximately 2,800 cubic yards of soil were excavated and placed on a plastic liner.

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 Trunk site is located in a rural area with no permanent residence or surface water within a 1,000 foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is not within 1000 feet of the site. Based on this groundwater elevation data, the approximate depth from land surface to groundwater at the site is 43 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	43 feet	20
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	>1,000 feet	0
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 January 2007 in order to remove soil impacted above the NMOCD remedial threshold limits. Approximately 2,800 cubic yards of soil were excavated and placed on a plastic liner. The excavated area is approximately 225 feet long, 70 feet wide, and three feet in depth on average, and approximately fourteen feet in depth at the deepest excavation location (reference Figure 2).

2.2 Soil Sampling Activities

Upon the completion of excavation activities, grab samples were collected from the north sidewall (NW-1, NW-2, and NW-3) and the south sidewall (WW-1, WW-2, and WW-3) to document the successful removal of soil impacted above NMOCD remedial thresholds (reference Figure 2). In addition, grab samples were also collected from the middle wall (MW-1, MW-2, and MW-3) and bottom of the excavation (BH-1, BH-2, and BH-3) as referenced in Figure 2. Laboratory analyses of the samples collected on March 7, 2007 showed the sample locations of NW-1, NW-2, NW-3, MW-2, MW-3, BH-1, BH-2 and BH-3 to be above the NMOCD remedial thresholds for TPH (reference Table 1). Stockpile samples (SP-1, SP-2, SP-3, and SP-4) collected on March 7, 2007 exhibited TPH and Total BTEX concentrations above the NMOCD remedial thresholds (reference Figure 2 and Table 1).

2.3 Over-Excavation Activities

On August 16, 2007, upon completion of the over-excavation activities, grab samples were taken from the over-excavation locations of NW-1A, NW-2A, NW-3A, EW-1, WW-1, MW-2A, MW-3A, BH-1A 6', BH-2A 6', BH-3A 14', BH-4 10' and BH-4 12' as referenced in Figure 2. The samples were taken upon over-excavating an additional five feet in depth, bringing the location excavation depth to fourteen feet at its deepest. Laboratory analyses of each of the over-excavation sample locations other than BH-2A 6' (279 mg/Kg TPH) and BH-4 10' (116 mg/Kg TPH) showed the excavation area to be below the NMOCD remedial thresholds (reference Table 1). The sample location for BH-4 was over-excavated to the depth of twelve feet, showing the sample excavation area to be below NMOCD remedial thresholds.

Subsequently, the excavation area containing the sample location for the sample BH-2A 6' was over-excavated again two feet in depth, bringing the sample location excavation depth to approximately eight feet. Based on excavation and over-excavation activities, approximately 2,800 cubic yards of soil were excavated and placed on a plastic liner. On September 26, 2007, upon completion of the over-excavation activities, a grab sample was taken from the over-excavation sample location of BH-2A 8' as referenced in Figure 2. Laboratory analyses of the sample BH-2A 8' showed the excavation area to be below the NMOCD remedial thresholds (reference Table 1).

3.0 CONCLUSIONS

3.1 Proposed Remediation Activities

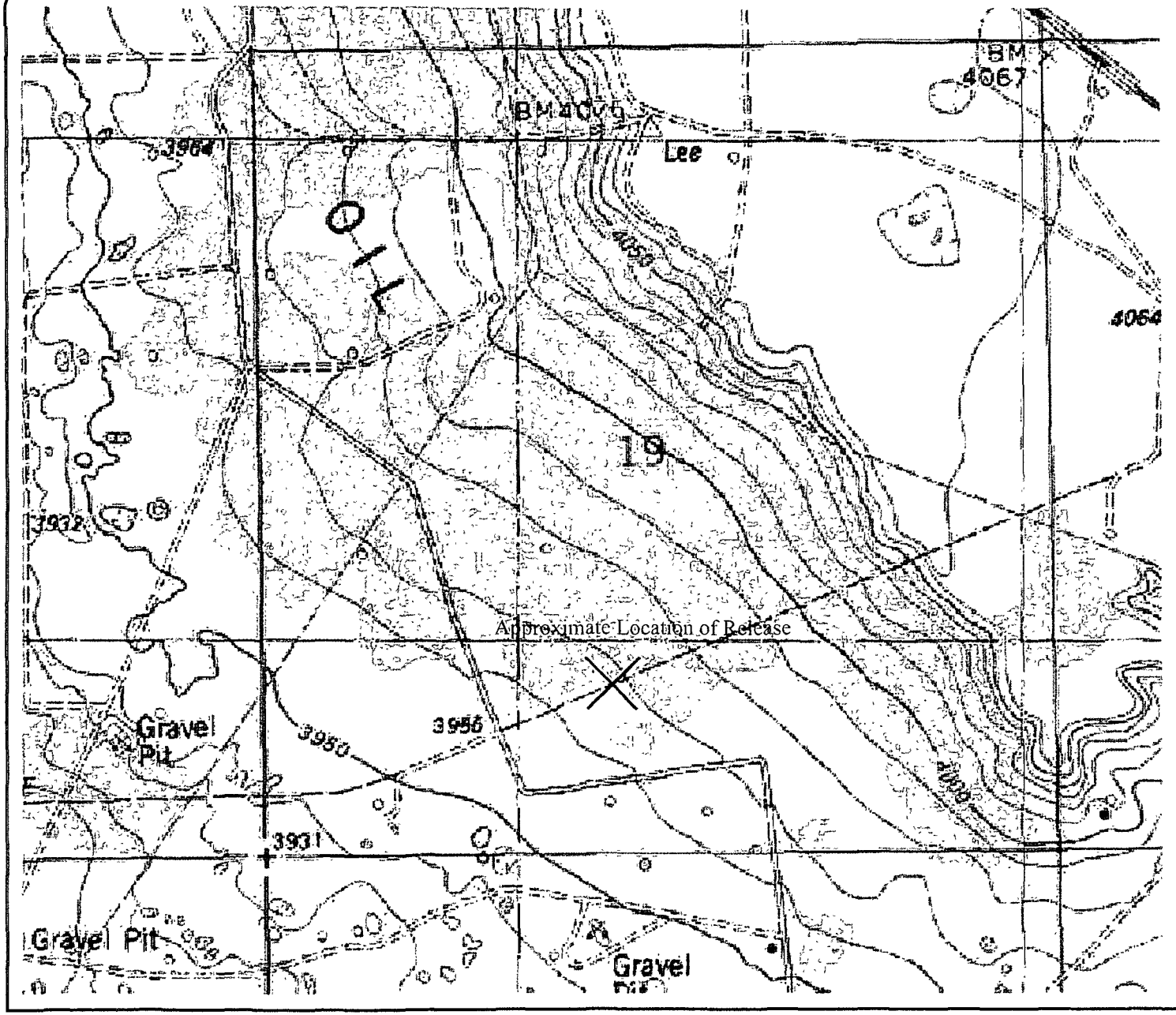
The over-excavation confirmation soil samples indicated TPH and Total BTEX concentrations below NMOCD guidelines. Therefore, Talon/LPE proposes that the excavated soil be transported to an NMOCD approved landfill and the excavation area be backfilled with imported fill material.

Upon completion of the backfill activities, the activities will be compiled as a soil closure report and submitted to the NMOCD for approval.

Appendix A

Drawings

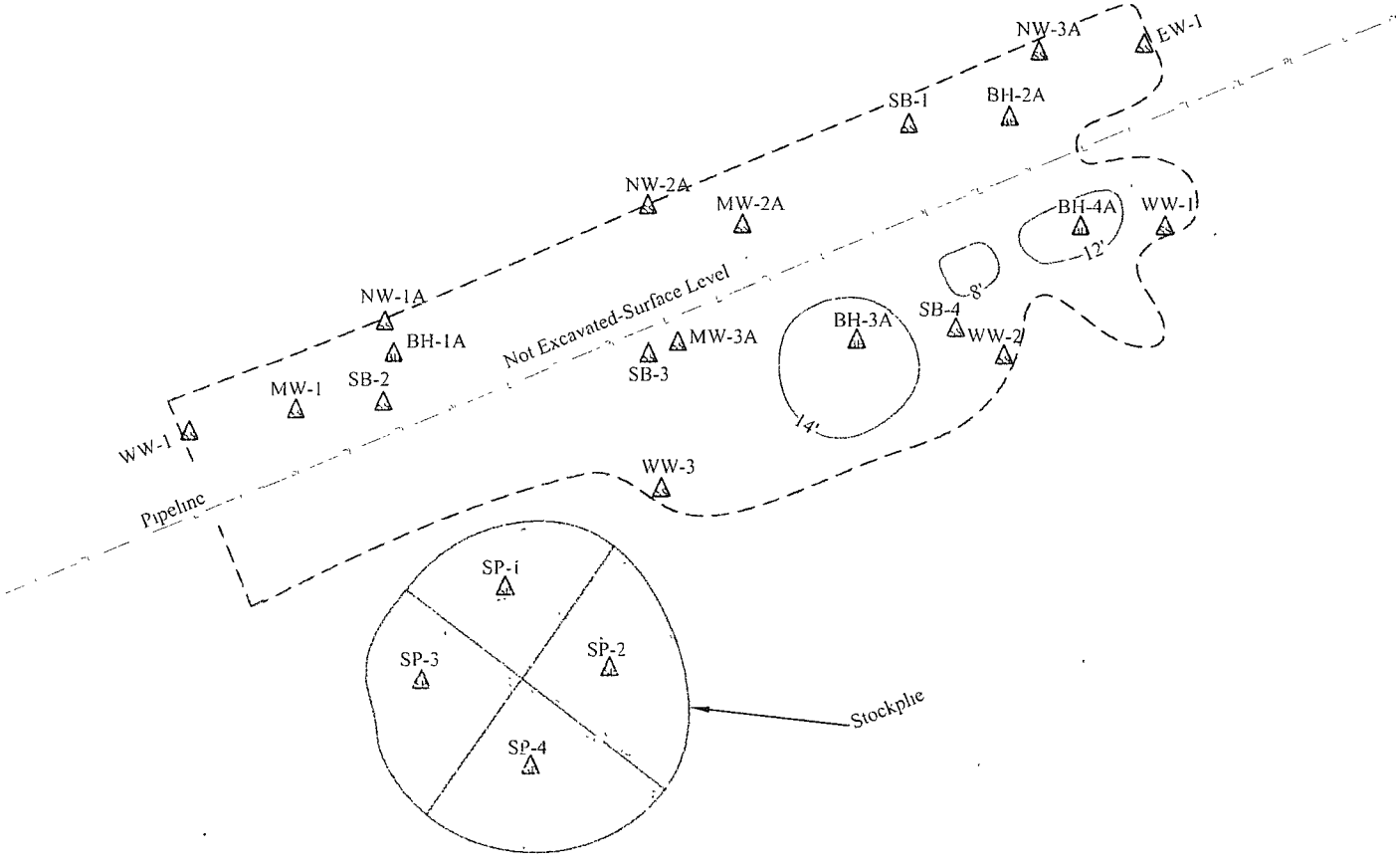
Figure 1 – Topographic Map
Figure 2 – Site Map With Confirmation Sampling Locations

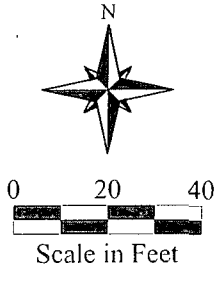


TALON LPE

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

E. K. Queen Trunk (PLAINS041SPL)
SRS # 2007-024
Lea County, New Mexico
Figure 1 - Topographic Map - Ironhouse Well - 1984





Legend

- Δ(SB) - Boring Samples
- Δ(WW) - South Wall Samples
- Δ(NW) - North Wall Samples
- Δ(MW) - Middle Wall Samples
- Δ(SP) - Stockpile Samples
- Δ(BH) - Bottom Hole Samples
- — — - Excavation Area
- - Surface Area

TALON LPE

Date: 09/26/2007
Scale: 1" = 40'
Drawn By: SJA

E. K. Queen Trunk (PLAINS041SPL)

SRS # 2007-024
Lea County, New Mexico
Figure 2 - Site Map 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 6" Trunk
Lea County, NM SRS# 2007-024
Talon/LPE Project Number PLAINS041SPL

Sample Designation	Date Sampled	Concentration								
		mg/Kg				mg/Kg				
		Status	DRO	GRO	Total TPH	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX
NW-1	03/07/07	Excavated			146	<0 00200	0 00544	0 00255	0 00541	0 03635
NW-2	03/07/07	Excavated			183	0 00583	0 0171	0 0123	0 0334	0 06863
NW-3	03/07/07	Excavated			169	<0 00200	0 00266	0 00489	0 01099	0 01854
MW-1	03/07/07				47 6	<0 00200	0 00234	0 00339	0 00919	0 01492
MW-2	03/07/07	Excavated			270	<0 00200	0 00362	<0 00200	0 00499	0 00861
MW-3	03/07/07	Excavated			268	0 00442	0 0231	0 0171	0 03058	0 07520
WW-1	03/07/07				78 9	0 00448	0 0357	0 0377	0 0606	0 13848
WW-2	03/07/07				24 9	<0 00200	0 00508	0 00273	0 00663	0 01444
WW-3	03/07/07				11 3	<0 00200	<0 00200	<0 00200	<0 00200	<0 00200
BH-1	03/07/07	Excavated			612	<0 00200	0 00336	0 0162	0 0339	0 05346
BH-2	03/07/07	Excavated			806	<0 00200	0 00231	0 00647	0 01834	0 02712
BH-3	03/07/07	Excavated			372	<0 00200	<0 00200	<0 00200	<0 00200	<0 00200
SP-1	03/07/07				**13,500**	1 38	34 1	28 5	57 0	**120.98**
SP-2	03/07/07				**21,600**	6 54	45 7	47 8	84 7	**184.74**
SP-3	03/07/07				**18,000**	6 50	112	107	175 5	**401**
SP-4	03/07/07				**6,800**	1 23	16 8	19 0	33 48	**70.51**
SB-1 5'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	0 03	0 03
SB-1 10'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-2 5'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-2 10'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-3 15'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-3 20'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-3 30"	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-4 15'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0.01	<0 01
SB-4 20'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
SB-4 30'	07/26/07	Soil Boring	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
NW-1A	08/16/07	Excavated	<50 0	<1 0	<50 0					
NW-2A	08/16/07	Excavated	<50 0	<1 0	<50 0					
NW-3A	08/16/07	Excavated	<50 0	<1 0	<50 0					
EW-1	08/16/07	Excavated	57 8	<1 0	57 8	<0 01	<0 01	<0 01	<0 01	<0 01
WW-1	08/16/07	Excavated	<50 0	<1 0	<50 0	<0 01	<0 01	<0 01	<0 01	<0 01
MW-2A	08/16/07	Excavated	<50 0	3 35	<50 0					
MW-3A	08/16/07	Excavated	<50 0	<1 0	<50 0					
BH-1A 6'	08/16/07	Excavated	<50 0	<1 0	<50 0					
BH-2A 6'	08/16/07	Excavated	**279**	2 71	**282**					
BH-3A 14'	08/16/07	Excavated	<50 0	<1 0	<50 0					
BH-4 10'	08/16/07	Excavated	**116**	22 2	**138**	<0 01	<0 01	<0 01	<0 01	<0 01
BH-4 12'	08/16/07	Excavated	<50 0	<1 0	<50 0					
BH-2A 8'	09/26/07	Excavated	<50 0	26 1	<50 0	<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*

APPENDIX C

Laboratory Analytical Data Sheets and Chain of Custody Documentation

ENVIRONMENTAL LAB OF

[illegible]

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 101 Line to Judkins

Project Number: EMS# 2006-026

Location: Lea County New Mexico

Lab Order Number: 7C09003

Report Date: 03/14/07

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

Project 101 Line to Judkins
Project Number EMS# 2006-026
Project Manager Camille Reynolds

Fax (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-1	7C09003-01	Soil	03/07/07 14 50	03-08-2007 17 30
NW-2	7C09003-02	Soil	03/07/07 14 56	03-08-2007 17 30
NW-3	7C09003-03	Soil	03/07/07 15 09	03-08-2007 17 30
MW-1	7C09003-04	Soil	03/07/07 15 17	03-08-2007 17 30
MW-2	7C09003-05	Soil	03/07/07 15 24	03-08-2007 17 30
MW-3	7C09003-06	Soil	03/07/07 15 31	03-08-2007 17 30
WW-1	7C09003-07	Soil	03/07/07 15 40	03-08-2007 17 30
WW-2	7C09003-08	Soil	03/07/07 15 46	03-08-2007 17 30
WW-3	7C09003-09	Soil	03/07/07 15 55	03-08-2007 17 30
BH-1	7C09003-10	Soil	03/07/07 16 10	03-08-2007 17 30
BH-2	7C09003-11	Soil	03/07/07 16 21	03-08-2007 17 30
BH-3	7C09003-12	Soil	03/07/07 16 26	03-08-2007 17 30
SP_1	7C09003-13	Soil	03/07/07 16 40	03-08-2007 17 30
SP-2	7C09003-14	Soil	03/07/07 16 50	03-08-2007 17 30
SP_3	7C09003-15	Soil	03/07/07 17 03	03-08-2007 17 30
SP-4	7C09003-16	Soil	03/07/07 17 18	03-08-2007 17 30

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Midland TX, 79706-4476

Project 101 Line to Judkins
Project Number EMS# 2006-026
Project Manager Camille Reynolds

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-1 (7C09003-01) Soil									
Benzene	**J [0.00172]**	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	J
Toluene	**0.00544**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.00255**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.00247**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.00294**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**J [5.29]**	10.0	mg/kg dry	1	EC70809	03/08/07	03/09/07	EPA 8015M	J
Carbon Ranges C12-C28	**131**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**15.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**146**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
NW-2 (7C09003-02) Soil									
Benzene	**0.00583**	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	**0.0171**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.0123**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0224**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.0110**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.6 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**10.4**	10.0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**157**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**15.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**183**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
NW-3 (7C09003-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	**0.00266**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.00489**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.00645**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.00454**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.4 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**J [8.35]**	10.0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	J

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-3 (7C09003-03) Soil									
Carbon Ranges C12-C28	**147**	10 0	mg/kg dry	1	EC70809	03/08/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	**22.2**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**169**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	
MW-1 (7C09003-04) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	**0.00234**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**0.00339**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**0.00512**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.00407**	0 00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85 6 %*	*75-125*		"	"	"	"	
Surrogate. 4-Bromofluorobenzene		*89 2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**12.9**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**34.7**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [3.94]**	10 0	"	"	"	"	"	"	I
Total Hydrocarbons	**47.6**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate· 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	
MW-2 (7C09003-05) Soil									
Benzene	**I [0.000902]**	0 00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	J
Toluene	**0.00362**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**J [0.00161]**	0 00200	"	"	"	"	"	"	J
Xylene (p/m)	**0.00207**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.00292**	0 00200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*81 2 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*83 2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**J [6.88]**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	**244**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**26.4**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**270**	10 0	"	"	"	"	"	"	
Surrogate· 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project 101 Line to Judkins	Fax (432) 687-4914
1301 S County Road 1150	Project Number EMS# 2006-026	
Midland TX, 79706-4476	Project Manager Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (7C09003-06) Soil									
Benzene	**0.00442**	0 00200	mg/kg dry	2	EC70902	03/09/07	03/09/07	EPA 8021B	
Toluene	**0.0231**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**0.0171**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0215**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.00908**	0 00200	"	"	"	"	"	"	
Surrogate a,a a-Trifluorotoluene		*88 0 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*87 8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**J [9.98]**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	**232**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**36.2**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**268**	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
WW-1 (7C09003-07) Soil									
Benzene	**0.00448**	0 00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	**0.0357**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**0.0377**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0424**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.0182**	0 00200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*76 6 %*	*75-125*		"	"	"	"	
Surrogate. 4-Bromofluorobenzene		*90 6 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**14.0**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**53.5**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**11.4**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**78.9**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*125 %*	*70-130*		"	"	"	"	
WW-2 (7C09003-08) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	**0.00508**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**0.00273**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**0.00344**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.00319**	0 00200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*77 8 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*84 4 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW-2 (7C09003-08) Soil									
Carbon Ranges C12-C28	**24.9**	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**24.9**	10.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*122 %*	*70-130*		"	"	"	"	
WW-3 (7C09003-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC70902	03/09/07	03/12/07	EPA 8021B	
Toluene	**ND**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**ND**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*70.4 %*	*75-125*		"	"	"	"	*S-DUP*
Surrogate 4-Bromofluorobenzene		*85.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**11.3**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**11.3**	10.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	
BH-1 (7C09003-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**0.00336**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.0162**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0220**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.0119**	0.00200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*66.6 %*	*75-125*		"	"	"	"	*S-04*
Surrogate 4-Bromofluorobenzene		*82.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**21.2**	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**531**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**59.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**612**	10.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*133 %*	*70-130*		"	"	"	"	*S-04*

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (7C09003-11) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**0.00231**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**0.00647**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0110**	0 00200	"	"	"	"	"	"	
Xylene (o)	**0.00734**	0 00200	"	"	"	"	"	"	
Surrogate a a,a-Trifluorotoluene		*64.6 %*	*75-125*		"	"	"	"	*S-04*
Surrogate 4-Bromofluorobenzene		*80 8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**50.9**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**686**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**68.6**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**806**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*117 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*140 %*	*70-130*		"	"	"	"	*S-04*
BH-3 (7C09003-12) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**ND**	0 00200	"	"	"	"	"	"	
Ethylbenzene	**ND**	0 00200	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0 00200	"	"	"	"	"	"	
Xylene (o)	ND	0 00200	"	"	"	"	"	"	
Surrogate a,a a-Trifluorotoluene		*71 2 %*	*75-125*		"	"	"	"	*S-04*
Surrogate 4-Bromofluorobenzene		*80.0 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**J [7.68]**	10 0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	J
Carbon Ranges C12-C28	**332**	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**40.3**	10 0	"	"	"	"	"	"	
Total Hydrocarbons	**372**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*132 %*	*70-130*		"	"	"	"	*S-04*
SP_1 (7C09003-13) Soil									
Benzene	**1.38**	0 200	mg/kg dry	200	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**34.1**	0 200	"	"	"	"	"	"	
Ethylbenzene	**28.5**	0 200	"	"	"	"	"	"	
Xylene (p/m)	**40.4**	0 200	"	"	"	"	"	"	
Xylene (o)	**16.6**	0 200	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*104 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*91 4 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**3750**	50 0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP_1 (7C09003-13) Soil									
Carbon Ranges C12-C28	**9040**	50 0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C28-C35	**680**	50 0	"	"	"	"	"	"	
Total Hydrocarbons	**13500**	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*44 2 %*	*70-130*		"	"	"	"	*S-06*
Surrogate 1-Chlorooctadecane		*51.4 %*	*70-130*		"	"	"	"	*S-06*
SP-2 (7C09003-14) Soil									
Benzene	**6.54**	0 400	mg/kg dry	400	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**45.7**	0 400	"	"	"	"	"	"	
Ethylbenzene	**47.8**	0 400	"	"	"	"	"	"	
Xylene (p/m)	**60.2**	0 400	"	"	"	"	"	"	
Xylene (o)	**24.5**	0 400	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*93 4 %*	*75-125*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*116 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**6150**	50 0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**14500**	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**903**	50 0	"	"	"	"	"	"	
Total Hydrocarbons	**21600**	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*58 6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate 1-Chlorooctadecane		*66 4 %*	*70-130*		"	"	"	"	*S-06*
SP_3 (7C09003-15) Soil									
Benzene	**6.50**	0 400	mg/kg dry	400	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**112**	0 400	"	"	"	"	"	"	
Ethylbenzene	**107**	0 400	"	"	"	"	"	"	
Xylene (p/m)	**127**	0 400	"	"	"	"	"	"	
Xylene (o)	**48.5**	0 400	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*126 %*	*75-125*		"	"	"	"	*S-04*
Surrogate 4-Bromofluorobenzene		*124 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**6860**	50 0	mg/kg dry	5	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**10400**	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**705**	50 0	"	"	"	"	"	"	
Total Hydrocarbons	**18000**	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*55 4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate 1-Chlorooctadecane		*55 2 %*	*70-130*		"	"	"	"	*S-06*

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-4 (7C09003-16) Soil									
Benzene	**1.23**	0.200	mg/kg dry	200	EC71207	03/12/07	03/12/07	EPA 8021B	
Toluene	**16.8**	0.200	"	"	"	"	"	"	
Ethylbenzene	**19.0**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**24.3**	0.200	"	"	"	"	"	"	
Xylene (o)	**9.18**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**2140**	10.0	mg/kg dry	1	EC70901	03/09/07	03/10/07	EPA 8015M	
Carbon Ranges C12-C28	**4510**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**176**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**6830**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*185 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*197 %*	*70-130*		"	"	"	"	*S-04*

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-1 (7C09003-01) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
NW-2 (7C09003-02) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
NW-3 (7C09003-03) Soil									
% Moisture	**0.1**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-1 (7C09003-04) Soil									
% Moisture	**1.0**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-2 (7C09003-05) Soil									
% Moisture	ND	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
MW-3 (7C09003-06) Soil									
% Moisture	**1.4**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-1 (7C09003-07) Soil									
% Moisture	**0.2**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-2 (7C09003-08) Soil									
% Moisture	**0.2**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
WW-3 (7C09003-09) Soil									
% Moisture	**0.1**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
BH-1 (7C09003-10) Soil									
% Moisture	**2.0**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
BH-2 (7C09003-11) Soil									
% Moisture	**1.4**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (7C09003-12) Soil									
% Moisture	**1.2**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP_1 (7C09003-13) Soil									
% Moisture	**8.2**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP-2 (7C09003-14) Soil									
% Moisture	**8.4**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP_3 (7C09003-15) Soil									
% Moisture	**7.1**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	
SP-4 (7C09003-16) Soil									
% Moisture	**3.9**	0.1	%	1	EC71206	03/09/07	03/12/07	% calculation	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70809 - Solvent Extraction (GC)										
Blank (EC70809-BLK1)				Prepared 03/08/07 Analyzed 03/12/07						
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	"							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	*52 8*		*mg/kg*	*50 0*		*106*	*70-130*			
Surrogate 1-Chlorooctadecane	*62 1*		"	*50 0*		*124*	*70-130*			
LCS (EC70809-BS1)				Prepared 03/08/07 Analyzed 03/09/07						
Carbon Ranges C6-C12	561	10 0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	487	10 0	"	500		97 4	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00			75-125			
Total Hydrocarbons	1050	10 0	"	1000		105	75-125			
Surrogate 1-Chlorooctane	*57 5*		*mg/kg*	*50 0*		*115*	*70-130*			
Surrogate 1-Chlorooctadecane	*62 2*		"	*50 0*		*124*	*70-130*			
Calibration Check (EC70809-CCV1)				Prepared 03/08/07 Analyzed 03/13/07						
Carbon Ranges C6-C12	222		mg/kg	250		88 8	80-120			
Carbon Ranges C12-C28	235		"	250		94 0	80-120			
Total Hydrocarbons	456		"	500		91 2	80-120			
Surrogate 1-Chlorooctane	*54 2*		"	*50 0*		*108*	*70-130*			
Surrogate 1-Chlorooctadecane	*53 4*		"	*50 0*		*107*	*70-130*			
Matrix Spike (EC70809-MS1)	**Source: 7C08006-11**			Prepared 03/08/07 Analyzed 03/10/07						
Carbon Ranges C6-C12	643	10 0	mg/kg dry	534	ND	120	75-125			
Carbon Ranges C12-C28	533	10 0	"	534	ND	99 8	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	1180	10 0	"	1070	ND	110	75-125			
Surrogate 1-Chlorooctane	*64 9*		*mg/kg*	*50 0*		*130*	*70-130*			
Surrogate 1-Chlorooctadecane	*65 0*		"	*50 0*		*130*	*70-130*			

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70809 - Solvent Extraction (GC)										
Matrix Spike Dup (EC70809-MSD1)	**Source: 7C08006-11**			Prepared 03/08/07 Analyzed 03/10/07						
Carbon Ranges C6-C12	642	10 0	mg/kg dry	534	ND	120	75-125	0 00	20	
Carbon Ranges C12-C28	535	10 0	"	534	ND	100	75-125	0 200	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1180	10 0	"	1070	ND	110	75-125	0 00	20	
Surrogate 1-Chlorooctane	*64 6*		*mg/kg*	*50 0*		*129*	*70-130*			
Surrogate 1-Chlorooctadecane	*64 9*		*"*	*50 0*		*130*	*70-130*			
Batch EC70901 - Solvent Extraction (GC)										
Blank (EC70901-BLK1)				Prepared 03/09/07 Analyzed 03/12/07						
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	"							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	*52 8*		*mg/kg*	*50 0*		*106*	*70-130*			
Surrogate 1-Chlorooctadecane	*62 2*		*"*	*50 0*		*124*	*70-130*			
LCS (EC70901-BS1)				Prepared 03/09/07 Analyzed 03/10/07						
Carbon Ranges C6-C12	561	10 0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	496	10 0	"	500		99 2	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00			75-125			
Total Hydrocarbons	1060	10 0	"	1000		106	75-125			
Surrogate 1-Chlorooctane	*63 1*		*mg/kg*	*50 0*		*126*	*70-130*			
Surrogate 1-Chlorooctadecane	*64 2*		*"*	*50 0*		*128*	*70-130*			
Calibration Check (EC70901-CCV1)				Prepared 03/09/07 Analyzed 03/13/07						
Carbon Ranges C6-C12	235		mg/kg	250		94 0	80-120			
Carbon Ranges C12-C28	275		"	250		110	80-120			
Total Hydrocarbons	510		"	500		102	80-120			
Surrogate 1-Chlorooctane	*54 9*		*"*	*50 0*		*110*	*70-130*			
Surrogate 1-Chlorooctadecane	*55 9*		*"*	*50 0*		*112*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70901 - Solvent Extraction (GC)										
Matrix Spike (EC70901-MS1)	**Source: 7C09003-09**			Prepared 03/09/07 Analyzed 03/13/07						
Carbon Ranges C6-C12	544	10 0	mg/kg dry	501	ND	109	75-125			
Carbon Ranges C12-C28	485	10 0	"	501	11 3	94 6	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	1030	10 0	"	1000	11 3	102	75-125			
Surrogate 1-Chlorooctane	*54 8*		*mg/kg*	*50 0*		*110*	*70-130*			
Surrogate 1-Chlorooctadecane	*55 2*		"	*50 0*		*110*	*70-130*			
Matrix Spike Dup (EC70901-MSD1)	**Source: 7C09003-09**			Prepared 03/09/07 Analyzed 03/10/07						
Carbon Ranges C6-C12	554	10 0	mg/kg dry	501	ND	111	75-125	1 82	20	
Carbon Ranges C12-C28	484	10 0	"	501	11 3	94 4	75-125	0 212	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1040	10 0	"	1000	11 3	103	75-125	0 976	20	
Surrogate 1-Chlorooctane	*64 1*		*mg/kg*	*50 0*		*128*	*70-130*			
Surrogate 1-Chlorooctadecane	*64 6*		"	*50 0*		*129*	*70-130*			
Batch EC70902 - EPA 5030C (GC)										
Blank (EC70902-BLK1)				Prepared & Analyzed 03/09/07						
Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	"							
Ethylbenzene	ND	0 00100	"							
Xylene (p/m)	ND	0 00100	"							
Xylene (o)	ND	0 00100	"							
Surrogate a,a,a-Trifluorotoluene	*51 5*		*ug/kg*	*50 0*		*103*	*75-125*			
Surrogate 4-Bromofluorobenzene	*52 1*		"	*50 0*		*104*	*75-125*			
LCS (EC70902-BS1)				Prepared & Analyzed 03/09/07						
Benzene	0 0518	0 00100	mg/kg wet	0 0500		104	80-120			
Toluene	0 0481	0 00100	"	0 0500		96 2	80-120			
Ethylbenzene	0 0501	0 00100	"	0 0500		100	80-120			
Xylene (p/m)	0 0933	0 00100	"	0 100		93 3	80-120			
Xylene (o)	0 0442	0 00100	"	0 0500		88 4	80-120			
Surrogate a,a,a-Trifluorotoluene	*49 2*		*ug/kg*	*50 0*		*98 4*	*75-125*			
Surrogate 4-Bromofluorobenzene	*56 0*		"	*50 0*		*112*	*75-125*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70902 - EPA 5030C (GC)										
Calibration Check (EC70902-CCV1)				Prepared & Analyzed 03/09/07						
Benzene	53 8		ug/kg	50 0		108	80-120			
Toluene	47 2		"	50 0		94 4	80-120			
Ethylbenzene	46 0		"	50 0		92 0	80-120			
Xylene (p/m)	88 1		"	100		88 1	80-120			
Xylene (o)	41 5		"	50 0		83 0	80-120			
Surrogate a,a,a-Trifluorotoluene	*50 4*		*"*	*50 0*		*101*	*75-125*			
Surrogate 4-Bromofluorobenzene	*53 1*		*"*	*50 0*		*106*	*75-125*			
Matrix Spike (EC70902-MS1)	**Source: 7C09001-04**			Prepared & Analyzed 03/09/07						
Benzene	0 0993	0 00200	mg/kg dry	0 107	0 00113	91 7	80-120			
Toluene	0 0971	0 00200	"	0 107	0 00279	88 1	80-120			
Ethylbenzene	0 0947	0 00200	"	0 107	0 00341	85 3	80-120			
Xylene (p/m)	0 193	0 00200	"	0 214	0 0119	84 6	80-120			
Xylene (o)	0 0989	0 00200	"	0 107	0 00706	85 8	80-120			
Surrogate a,a,a-Trifluorotoluene	*40 5*		*ug/kg*	*50 0*		*81 0*	*75-125*			
Surrogate 4-Bromofluorobenzene	*43 8*		*"*	*50 0*		*87 6*	*75-125*			
Matrix Spike Dup (EC70902-MSD1)	**Source: 7C09001-04**			Prepared & Analyzed 03/09/07						
Benzene	0 0961	0 00200	mg/kg dry	0 107	0 00113	88 8	80-120	3 21	20	
Toluene	0 0926	0 00200	"	0 107	0 00279	83 9	80-120	4 88	20	
Ethylbenzene	0 0953	0 00200	"	0 107	0 00341	85 9	80-120	0 701	20	
Xylene (p/m)	0 188	0 00200	"	0 214	0 0119	82 3	80-120	2 76	20	
Xylene (o)	0 0943	0 00200	"	0 107	0 00706	81 5	80-120	5 14	20	
Surrogate a,a,a-Trifluorotoluene	*42 8*		*ug/kg*	*50 0*		*85 6*	*75-125*			
Surrogate 4-Bromofluorobenzene	*43 9*		*"*	*50 0*		*87 8*	*75-125*			
Batch EC71207 - EPA 5030C (GC)										
Blank (EC71207-BLK1)				Prepared & Analyzed 03/12/07						
Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	"							
Ethylbenzene	ND	0 00100	"							
Xylene (p/m)	ND	0 00100	"							
Xylene (o)	ND	0 00100	"							
Surrogate a,a,a-Trifluorotoluene	*43 2*		*ug/kg*	*50 0*		*86 4*	*75-125*			
Surrogate 4-Bromofluorobenzene	*44 6*		*"*	*50 0*		*89 2*	*75-125*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71207 - EPA 5030C (GC)										
LCS (EC71207-BS1)				Prepared & Analyzed 03/12/07						
Benzene	0 0431	0 00100	mg/kg wet	0 0500		86 2	80-120			
Toluene	0 0412	0 00100	"	0 0500		82 4	80-120			
Ethylbenzene	0 0421	0 00100	"	0 0500		84 2	80-120			
Xylene (p/m)	0 0859	0 00100	"	0 100		85 9	80-120			
Xylene (o)	0 0406	0 00100	"	0 0500		81 2	80-120			
Surrogate a,a,a-Trifluorotoluene	*41 9*		*ug/kg*	*50 0*		*83 8*	*75-125*			
Surrogate 4-Bromofluorobenzene	*47 1*		*"*	*50 0*		*94 2*	*75-125*			
Calibration Check (EC71207-CCV1)				Prepared 03/12/07 Analyzed 03/13/07						
Benzene	46 3		ug/kg	50 0		92 6	80-120			
Toluene	41 2		"	50 0		82 4	80-120			
Ethylbenzene	42 2		"	50 0		84 4	80-120			
Xylene (p/m)	85 3		"	100		85 3	80-120			
Xylene (o)	41 2		"	50 0		82 4	80-120			
Surrogate a,a,a-Trifluorotoluene	*41 8*		*"*	*50 0*		*83 6*	*75-125*			
Surrogate 4-Bromofluorobenzene	*45 7*		*"*	*50 0*		*91 4*	*75-125*			
Matrix Spike (EC71207-MS1)	**Source: 7C09003-12**			Prepared 03/12/07 Analyzed 03/13/07						
Benzene	0 0803	0 00200	mg/kg dry	0 101	ND	79 5	80-120			M8
Toluene	0 0763	0 00200	"	0 101	ND	75 5	80-120			M8
Ethylbenzene	0 0675	0 00200	"	0 101	ND	66 8	80-120			M8
Xylene (p/m)	0 138	0 00200	"	0 202	ND	68 3	80-120			M8
Xylene (o)	0 0631	0 00200	"	0 101	ND	62 5	80-120			M8
Surrogate a,a,a-Trifluorotoluene	*37 8*		*ug/kg*	*50 0*		*75 6*	*75-125*			
Surrogate 4-Bromofluorobenzene	*39 3*		*"*	*50 0*		*78 6*	*75-125*			
Matrix Spike Dup (EC71207-MSD1)	**Source: 7C09003-12**			Prepared 03/12/07 Analyzed 03/13/07						
Benzene	0 0787	0 00200	mg/kg dry	0 101	ND	77 9	80-120	2 03	20	M8
Toluene	0 0701	0 00200	"	0 101	ND	69 4	80-120	8 42	20	M8
Ethylbenzene	0 0692	0 00200	"	0 101	ND	68 5	80-120	2 51	20	M8
Xylene (p/m)	0 135	0 00200	"	0 202	ND	66 8	80-120	2.22	20	M8
Xylene (o)	0 0614	0 00200	"	0 101	ND	60 8	80-120	2 76	20	M8
Surrogate a,a,a-Trifluorotoluene	*37 5*		*ug/kg*	*50 0*		*75 0*	*75-125*			
Surrogate 4-Bromofluorobenzene	*38 3*		*"*	*50 0*		*76 6*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71206 - General Preparation (Prep)										
Blank (EC71206-BLK1)				Prepared 03/09/07 Analyzed 03/12/07						
% Solids	100		%							
Duplicate (EC71206-DUP1)		**Source: 7C09011-01**		Prepared 03/09/07 Analyzed 03/12/07						
% Solids	91 2		%		91 0			0 220	20	
Duplicate (EC71206-DUP2)		**Source: 7C09003-09**		Prepared 03/09/07 Analyzed 03/12/07						
% Solids	99 6		%		99 9			0 301	20	

Notes and Definitions

S-DUP	Duplicate analysis confirmed surrogate failure due to matrix effects
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
M8	The MS and/or MSD were below the acceptance limits See Blank Spike (LCS)
J	Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: _____ Date: 3/14/2007

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

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: EB TAYLOR
Project Name: EK QUEEN 8" TRUNK

Company Name: TALONLPE
Project #: PLAINS041SPL

Company Address: 318 E TAYLOR
Project Loc: LEA COUNTY NEW MEXICO

City/State/Zip: HOBBS NEW MEXICO 88240
PO #:

Telephone No: 432-238-6388 Fax No:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Eb Taylor e-mail:

(lab use only)
ORDER #: 7C09003

278724

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M) 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B/5030 or 8TEX 8260)	RCI	N.O.R.M	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs.	Standard TAT
-01	NW-1			3/7/2007	14:50			X									S														X
-02	NW-2			3/7/2007	14:56			X									S														X
-03	NW-3			3/7/2007	15:09			X									S														X
-04	MW-1			3/7/2007	15:17			X									S														X
-05	MW-2			3/7/2007	15:24			X									S														X
-06	MW-3			3/7/2007	15:31			X									S														X
-07	WW-1			3/7/2007	15:40			X									S														X
-08	WW-2			3/7/2007	15:46			X									S														X
-09	WW-3			3/7/2007	15:55			X									S														X
-10	BH-1			3/7/2007	16:10			X									S														X

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
	3-8-07	2:30		3/8/07	2:30
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by:	Date	Time	Received by ELOT	Date	Time
	3-8-07	5:30		3/8/07	5:30

Laboratory Comments:

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

Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: EB TAYLOR
Company Name: TALONLPE
Company Address: 318 E TAYLOR
City/State/Zip: HOBBS NEW MEXICO 88240
Telephone No.: 432-238-6388 Fax No:
Sampler Signature: Eb Taylor e-mail:

Project Name: EK QUEEN 6" TRUNK
Project #: PLAINS041SPL
Project Loc: LEA COUNTY NEW MEXICO
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP-Non-Potable Specify Other	Analyze For: TCLP TOTAL: TPH 418.1 / 8015M	TPH TX 1006	TPH TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-11	BH-2			3/7/2007	16:21			X									S															X
-12	BH-3			3/7/2007	16:26			X									S															X
-13	SP-1			3/7/2007	16:40			X									S															X
-14	SP-2			3/7/2007	16:50			X									S															X
-15	SP-3			3/7/2007	17:03			X									S															X
-16	SP-4			3/7/2007	17:18			X									S															X

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
Eb Taylor	3-8-07	2:30		3-8-07	2:30
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT	Date	Time
	3-8-07	5:30		3/8/07	5:30

Laboratory Comments:

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

by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Talon LPC

Date/ Time: 3/8/07 17:36

Lab ID # : 70019003

Initials: DM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

TraceAnalysis, Inc.

[illegible] Aberdeen Avenue, Suite [illegible] Lubbock, Texas [illegible] 800•378•[illegible] 806•794•[illegible] FAX 806•794•[illegible]
200 East Sunset Road, Suite E El Paso, Texas [illegible] [illegible] 915•585•[illegible] FAX 915•585•[illegible]
5002 Basin Street, Suite A1 Midland, Texas [illegible] 432•689•[illegible] FAX 432•689•[illegible]
[illegible] Parkway, Suite [illegible] Ft. Worth, Texas [illegible] 817•201•5260
E-Mail [illegible]

Analytical and Quality Control Report

Shanna Smith
Talon/LPE-Midland
#9 East Industrial Loop
Midland, TX, 79701

Report Date. August 21, 2007

Work Order: 7081716

Project Location: Hobbs, NM
Project Name: EK Queen Trunk
Project Number: Plains 041 SPL
SRS #: 2007-024

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
133542	NW-1A	soil	2007-08-16	10:20	2007-08-17
133543	NW-2A	soil	2007-08-16	10:23	2007-08-17
133544	NW-3A	soil	2007-08-16	10.25	2007-08-17
133545	EW-1	soil	2007-08-16	11:26	2007-08-17
133546	WW-1	soil	2007-08-16	11:27	2007-08-17
133547	MW-2A	soil	2007-08-16	11:07	2007-08-17
133548	MW-3A	soil	2007-08-16	11:08	2007-08-17
133549	BH-1A 6'	soil	2007-08-16	11:36	2007-08-17
133550	BH-2A 6'	soil	2007-08-16	11:37	2007-08-17
133551	BH-3A 14'	soil	2007-08-16	11:25	2007-08-17
133552	BH-4 10'	soil	2007-08-16	10:36	2007-08-17

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

This report consists of a total of 15 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.

Analytical Report

Sample: 133542 - NW-1A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		217	mg/Kg	1	150	145	17.3 - 169.6

Sample: 133542 - NW-1A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	0.966	mg/Kg	1	1.00	97	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 133543 - NW-2A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		211	mg/Kg	1	150	141	17.3 - 169.6

Sample: 133543 - NW-2A

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

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.988	mg/Kg	1	1.00	99	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 133544 - NW-3A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		181	mg/Kg	1	150	121	17.3 - 169.6

Sample: 133544 - NW-3A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[3]	0.958	mg/Kg	1	1.00	96	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 133545 - EW-1

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

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	1	1.00	104	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	47.3 - 144.2

Sample: 133545 - EW-1

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**57.8**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		187	mg/Kg	1	150	125	17.3 - 169.6

Sample: 133545 - EW-1

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[4]	0.958	mg/Kg	1	1.00	96	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 133546 - WW-1

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

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

[4]High surrogate recovery Sample non-detect, result bias high

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.965	mg/Kg	1	1.00	96	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	47.3 - 144.2

Sample: 133546 - WW-1

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		190	mg/Kg	1	150	127	17.3 - 169.6

Sample: 133546 - WW-1

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.852	mg/Kg	1	1.00	85	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	50.8 - 131.6

Sample: 133547 - MW-2A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		200	mg/Kg	1	150	133	17.3 - 169.6

Sample: 133547 - MW-2A

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**3.35**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[5]	0.957	mg/Kg	1	1.00	96	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	50.8 - 131.6

Sample: 133548 - MW-3A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		234	mg/Kg	1	150	156	17.3 - 169.6

Sample: 133548 - MW-3A

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[6]	1.03	mg/Kg	1	1.00	103	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133549 - BH-1A 6'

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

[5]High surrogate recovery due to peak interference
[6]High surrogate recovery Sample non-detect, result bias high.

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		205	mg/Kg	1	150	137	17.3 - 169.6

Sample: 133549 - BH-1A 6'

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[7]	0.919	mg/Kg	1	1.00	92	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133550 - BH-2A 6'

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**279**	mg/Kg	1	50.0

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

Sample: 133550 - BH-2A 6'

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2.71**	mg/Kg	1	1.00

[7]High surrogate recovery Sample non-detect, result bias high

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.884	mg/Kg	1	1.00	88	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 133551 - BH-3A 14'

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		215	mg/Kg	1	150	143	17.3 - 169.6

Sample: 133551 - BH-3A 14'

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[8]	0.901	mg/Kg	1	1.00	90	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133552 - BH-4 10'

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0 0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

[8]High surrogate recovery. Sample non-detect, result bias high

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.999	mg/Kg	1	1.00	100	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	47.3 - 144.2

Sample: 133552 - BH-4 10'

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**116**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		216	mg/Kg	1	150	144	17.3 - 169.6

Sample: 133552 - BH-4 10'

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**22.2**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.852	mg/Kg	1	1.00	85	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	50.8 - 131.6

Method Blank (1) QC Batch: 40189

QC Batch:	40189	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34780	QC Preparation:	2007-08-17	Prepared By:	

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

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

Method Blank (1) QC Batch: 40257

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

Method Blank (1) QC Batch: 40261

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34780 | QC Preparation: 2007-08-17 | Prepared By:

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

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

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

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

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

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 133542

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34780 | QC Preparation: 2007-08-17 | Prepared By:

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

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

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

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

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT) [9]	0.982	0.844	mg/Kg	1	1	98	84	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.06	1.04	mg/Kg	1	1	106	104	58 - 162.6

Standard (ICV-1)

QC Batch: 40189 Date Analyzed: 2007-08-17 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	243	97	85 - 115	2007-08-17

Standard (CCV-1)

QC Batch: 40189 Date Analyzed: 2007-08-17 Analyzed By:

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

Standard (CCV-2)

QC Batch: 40189 Date Analyzed: 2007-08-17 Analyzed By:

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

Standard (ICV-1)

QC Batch: 40257 Date Analyzed: 2007-08-20 Analyzed By:

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

[9] High surrogate recovery due to peak interference.

Standard (CCV-1)

QC Batch: 40257 Date Analyzed: 2007-08-20 Analyzed By:

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

Standard (ICV-1)

QC Batch: 40261 Date Analyzed: 2007-08-20 Analyzed By:

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

Standard (CCV-1)

QC Batch: 40261 Date Analyzed: 2007-08-20 Analyzed By:

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

LAB Order ID # 70817116 Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: TALON
Phone #: 522-2133
Address: (Street, City, Zip) Plains 04152PL
Fax #:
Contact Person: Shawna Smith
E-mail: SSmith@talonlpe.com
Invoice to: (If different from above) Plains Pipeline
Project #: 2007-024
Project Name: EK Queen Trunk
Project Location (including state): Hobbs, NM
Sampler Signature: Shawna Smith

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) (8015 mod.)	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
33542	NW-1A	1	4oz		X							X	X	8/16/07	1020			X																
543	NW-2A														1023			X																
544	NW-3A														1025			X																
545	EW-1														1126		X	X																
546	WW-1														1127		X	X																
547	MW-2A														1107			X																
548	MW-3A														1108			X																
549	BH-1A	6'													1136			X																
550	BH-2A	6'													1137			X																
551	BH-3A	14'													1125			X																
552	BH-4	10'													1036		X	X																

Turn Around Time if different from standard
Hold

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shawna Smith	8/17/07	1050	Camille Reynolds	8/17/07	10:50
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 3.0 °C
Log-In-Review JD

REMARKS:
email Camille Reynolds
Shawna Smith

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

Carrier # Carry In

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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E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Talon/LPE-Midland
#9 East Industrial Loop
Midland, TX, 79701

Report Date: August 29, 2007

Work Order: 7082329

Project Location: Hobbs, NM
Project Name: EK Queen Trunk
Project Number: Plains 041 SPL
SRS #: 2007-024

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
134125	BH-4 12'	soil	2007-08-16	10:50	2007-08-23

NOTE
Work Order 7082329: E-mail results to Shanna Smith at Talon and Camille Reynolds at Plains.

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 Trunk were received by TraceAnalysis, Inc. on 2007-08-23 and assigned to work order 7082329. Samples for work order 7082329 were received intact at a temperature of 3.0 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 7082329 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: 134125 - BH-4 12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40364	Date Analyzed:	2007-08-23	Analyzed By:	LD
Prep Batch:	34915	Sample Preparation:	2007-08-23	Prepared By:	LD

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		247	mg/Kg	1	150	165	17.3 - 169.6

Sample: 134125 - BH-4 12'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	DC
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	50.8 - 131.6

Method Blank (1) QC Batch: 40364

QC Batch:	40364	Date Analyzed:	2007-08-23	Analyzed By:	LD
Prep Batch:	34915	QC Preparation:	2007-08-23	Prepared By:	LD

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		196	mg/Kg	1	150	131	32.9 - 156.1

Method Blank (1) QC Batch: 40540

QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	DC
Prep Batch:	35014	QC Preparation:	2007-08-24	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	54.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40364 | Date Analyzed: 2007-08-23 | Analyzed By: LD
Prep Batch: 34915 | QC Preparation: 2007-08-23 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	188	mg/Kg	1	250	<13.4	75	49.1 - 142.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	213	mg/Kg	1	250	<13.4	85	49.1 - 142.3	12	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	181	159	mg/Kg	1	150	121	106	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40540 | Date Analyzed: 2007-08-24 | Analyzed By: DC
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By: DC

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

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 133920

QC Batch: 40364 | Date Analyzed: 2007-08-23 | Analyzed By: LD
Prep Batch: 34915 | QC Preparation: 2007-08-23 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	254	mg/Kg	1	250	<13.4	102	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [1]	183	mg/Kg	1	250	<13.4	73	30.2 - 201.4	32	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	243	215	mg/Kg	1	150	162	143	10 - 194

Matrix Spike (MS-1) Spiked Sample: 134125

QC Batch: 40540 | Date Analyzed: 2007-08-24 | Analyzed By: DC
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By: DC

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

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

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

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

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

Standard (ICV-1)

QC Batch: 40364 | Date Analyzed: 2007-08-23 | Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	227	91	85 - 115	2007-08-23

[1] RPD is out of control due to the extraction process. Use LCS/LCSD to demonstrate that the method is under control. •

Standard (CCV-1)

QC Batch: 40364 Date Analyzed: 2007-08-23 Analyzed By: LD

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	2007-08-23

Standard (ICV-1)

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By: DC

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

Standard (CCV-1)

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By: DC

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

LAB Order ID # 7082329 Page 1 of 1

TraceAnalysis, Inc.

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Phone #: 522-2133
Address: (Street, City, Zip) Plains 041 SPL
Fax #:
Contact Person: Shawna Smith
E-mail: SSmith@talonlpe.com
Invoice to: (If different from above) Plains - Camille Reynolds
Project #: 2007-024
Project Name: EK Queen Trunk
Project Location (including state): Hobbs, NM
Sampler Signature: Shawna Smith

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
13425	BH-4 12'	1	4oz		X							X	X	8/16	1050

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
		X	8015 mod															

Relinquished by: Shawna Date: 8/23/07 Time: 1052
Received by: Date: 8/23/07 Time: 1052
Relinquished by: Date: 8/23/07 Time: 1110
Received by: Dawn Caylor Date: 8/23/07 Time: 11:10
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:

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

REMARKS:
email Camille Reynolds
Shawna Smith
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # CARRY IN

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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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Fort Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Talon/LPE-Midland
#9 East Industrial Loop
Midland, TX, 79701

Report Date: October 8, 2007

Work Order: 7092608

Project Location: Hobbs, NM
Project Name: EK Queen Trunk
Project Number: Plains 041 SPL
SRS #: 2007-024

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
137375	BH-2A 8'	soil	2007-09-26	08:10	2007-09-26

NOTE
Work Order 7092608: E-mail results to Camille Reynolds at Plains, Shanna Smith at Talon/LPE-Midland and Marc Stroope at Talon/LPE-Hobbs.

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 Trunk were received by TraceAnalysis, Inc. on 2007-09-26 and assigned to work order 7092608 Samples for work order 7092608 were received intact at a temperature of 2.5 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 7092608 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: 137375 - BH-2A 8'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	41544	Date Analyzed:	2007-09-26	Analyzed By:	
Prep Batch:	35879	Sample Preparation:	2007-09-26	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.05	mg/Kg	1	1.00	105	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	47.3 - 144.2

Sample: 137375 - BH-2A 8'

Analysis.	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41477	Date Analyzed:	2007-09-26	Analyzed By:	
Prep Batch:	35839	Sample Preparation:	2007-09-26	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		196	mg/Kg	1	150	131	17.3 - 169.6

Sample: 137375 - BH-2A 8'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41564	Date Analyzed:	2007-09-27	Analyzed By:	
Prep Batch:	35915	Sample Preparation:	2007-09-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**26.1**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		14.0	mg/Kg	20	20.0	70	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		17.6	mg/Kg	20	20.0	88	50.8 - 131.6

Method Blank (1) QC Batch: 41477

QC Batch: 41477 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch: 35839 | QC Preparation. 2007-09-26 | Prepared By:

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		218	mg/Kg	1	150	145	32.9 - 156.1

Method Blank (1) QC Batch: 41544

QC Batch: 41544 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch: 35879 | QC Preparation: 2007-09-26 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0 01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	58.2 - 121 3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	53.1 - 111.6

Method Blank (1) QC Batch: 41564

QC Batch: 41564 | Date Analyzed: 2007-09-27 | Analyzed By:
Prep Batch: 35915 | QC Preparation: 2007-09-27 | Prepared By:

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.741	mg/Kg	1	1.00	74	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.896	mg/Kg	1	1.00	90	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 41477 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch. 35839 | QC Preparation: 2007-09-26 | Prepared By:

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

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	288	mg/Kg	1	250	<13.4	115	49.1 - 142.3	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	98.3	101	mg/Kg	1	150	66	67	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41544 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch: 35879 | QC Preparation: 2007-09-26 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.08	mg/Kg	1	1.00	<0.00110	108	71.2 - 119
Toluene	1.13	mg/Kg	1	1.00	<0.00150	113	76.3 - 116.5
Ethylbenzene	1.13	mg/Kg	1	1.00	<0.00160	113	77.6 - 114
Xylene	3.38	mg/Kg	1	3.00	<0.00410	113	78.8 - 113.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.08	mg/Kg	1	1.00	<0.00110	108	71.2 - 119	0	20
Toluene	1.12	mg/Kg	1	1.00	<0.00150	112	76.3 - 116.5	1	20
Ethylbenzene	1.14	mg/Kg	1	1.00	<0.00160	114	77.6 - 114	1	20
Xylene	3.40	mg/Kg	1	3.00	<0.00410	113	78.8 - 113.9	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)	1.02	0.987	mg/Kg	1	1.00	102	99	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	1.12	1.11	mg/Kg	1	1.00	112	111	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 41564 | Date Analyzed: 2007-09-27 | Analyzed By:
Prep Batch: 35915 | QC Preparation: 2007-09-27 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.51	mg/Kg	1	10.0	<0.739	65	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6.99	mg/Kg	1	10.0	<0.739	70	56 - 105.2	7	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)	0.850	0.851	mg/Kg	1	1.00	85	85	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.958	0.970	mg/Kg	1	1.00	96	97	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 137375

QC Batch: 41477 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch: 35839 | QC Preparation: 2007-09-26 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	228	mg/Kg	1	250	<13.4	91	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [1]	142	mg/Kg	1	250	<13.4	57	30.2 - 201.4	46	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	218	190	mg/Kg	1	150	145	127	10 - 194

Matrix Spike (MS-1) Spiked Sample: 137295

QC Batch: 41544 | Date Analyzed: 2007-09-26 | Analyzed By:
Prep Batch: 35879 | QC Preparation: 2007-09-26 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.02	mg/Kg	1	1.00	<0.00110	102	65.7 - 119.1
Toluene	1.11	mg/Kg	1	1.00	<0.00150	111	47.7 - 153.8
Ethylbenzene	1.12	mg/Kg	1	1.00	<0.00160	112	73.5 - 126.3
Xylene	3.35	mg/Kg	1	3.00	<0.00410	112	73.6 - 125.9

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

Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	65.7 - 119.1	1	20
Toluene	1.10	mg/Kg	1	1.00	<0.00150	110	47.7 - 153.8	1	20
Ethylbenzene	1.11	mg/Kg	1	1.00	<0.00160	111	73.5 - 126.3	1	20
Xylene	3.29	mg/Kg	1	3.00	<0.00410	110	73.6 - 125.9	2	20

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

[1] MS/MSD RPD out of RPD Limits Use LCS/LCSD to demonstrate analysis is under control

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.03	1.02	mg/Kg	1	1	103	102	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.11	1.12	mg/Kg	1	1	111	112	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 137017

QC Batch: 41564 | Date Analyzed: 2007-09-27 | Analyzed By:
Prep Batch: 35915 | QC Preparation: 2007-09-27 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	164	mg/Kg	20	200	95.1413	34	10 - 102.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	175	mg/Kg	20	200	95.1413	40	10 - 102.2	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
Trifluorotoluene (TFT)	11.9	11.5	mg/Kg	20	20	60	58	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	16.8	16.7	mg/Kg	20	20	84	84	58 - 162.6

Standard (ICV-1)

QC Batch: 41477 | Date Analyzed: 2007-09-26 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	286	114	85 - 115	2007-09-26

Standard (CCV-1)

QC Batch: 41477 | Date Analyzed: 2007-09-26 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	265	106	85 - 115	2007-09-26

Standard (ICV-1)

QC Batch: 41544 | Date Analyzed: 2007-09-26 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.106	106	85 - 115	2007-09-26
Toluene		mg/Kg	0.100	0.114	114	85 - 115	2007-09-26
Ethylbenzene		mg/Kg	0.100	0.113	113	85 - 115	2007-09-26
Xylene		mg/Kg	0.300	0.339	113	85 - 115	2007-09-26

Standard (CCV-1)

QC Batch: 41544 Date Analyzed: 2007-09-26 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0971	97	85 - 115	2007-09-26
Toluene		mg/Kg	0.100	0.103	103	85 - 115	2007-09-26
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2007-09-26
Xylene		mg/Kg	0.300	0.307	102	85 - 115	2007-09-26

Standard (ICV-1)

QC Batch: 41564 Date Analyzed: 2007-09-27 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.907	91	85 - 115	2007-09-27

Standard (CCV-1)

QC Batch: 41564 Date Analyzed: 2007-09-27 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.997	100	85 - 115	2007-09-27

LAB Order ID # 7092609

Page 1 of 1

TraceAnalysis, Inc.

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Company Name: Talon/LPE

Phone #: 432-522-2133

Address: (Street, City, Zip) 2901 Rankin Hwy, Midland TX 79706

Fax #: 432-522-2180

Contact Person: Shanna Smith

E-mail: ssmith@talonlpe.com

Invoice to: (If different from above)

Project #: 2007.024

Project Name: EK Queen Trunk

Project Location (including state): Hobbs, NM

Sampler Signature:

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
134375	BH-2A 8'	1	4oz		X							X	X	09/25/07	0810

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35) (8015 Mod.)	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
	X	X																

Relinquished by: Date: Time:
09/25/07 0900

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: Time:
9/26/07 8:25

LAB USE ONLY

Intact (Y) N

Headspace Y N

Temp 2.5 °C

Log-in-Review JG

REMARKS:
email Camille Reynolds, Shanna Smith & Marc Sloane

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required All tests - Midland
- [ ] 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

ORIGINAL COPY

APPENDIX D

Photograph Documentation

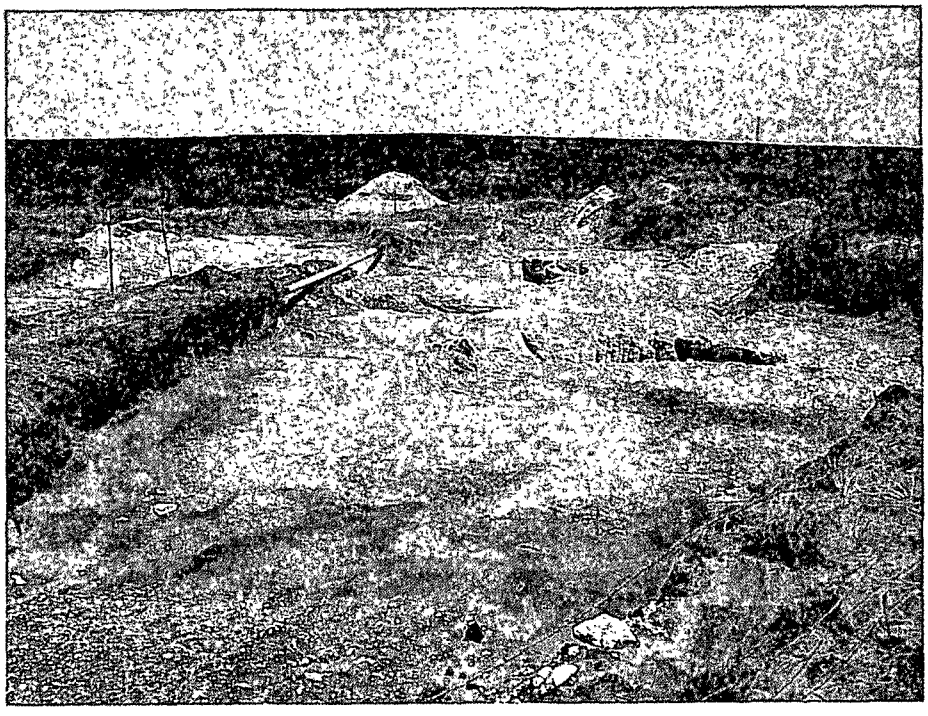
TALON/LPE

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

Photographic Documentation

Prepared by: Marc Stroope
Photographer: Marc Stroope
Project Number: PLAINS041SPL

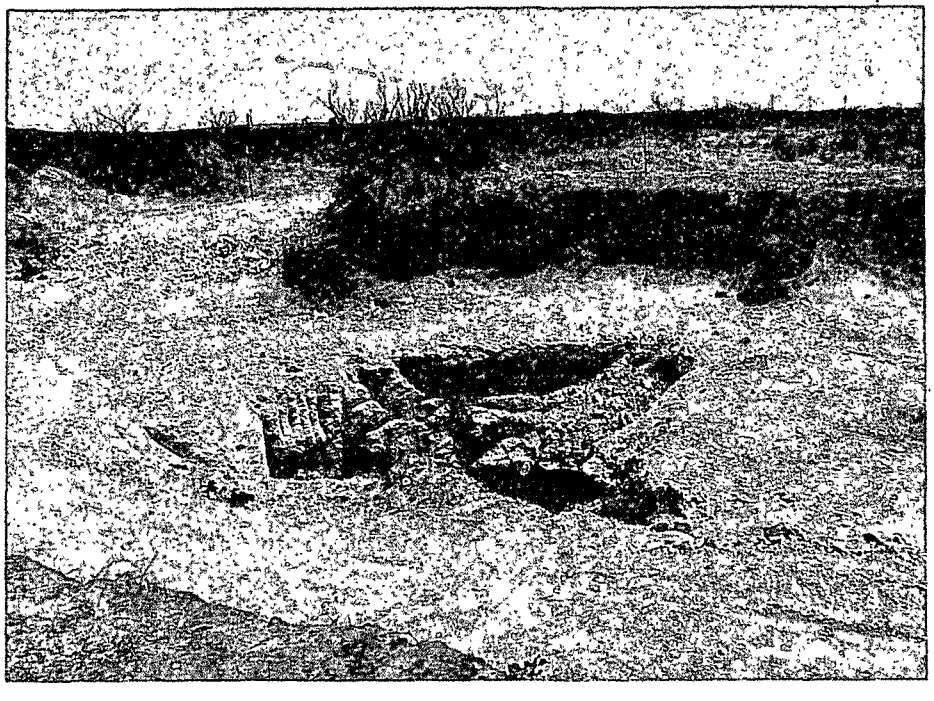
Photograph No. 1



Direction: East

Description: View of excavation area.

Photograph No. 2



Direction: South

Description: View of excavation area.