SOILS REMEDIATION WORKPLAN E.K. QUEEN STATE LEA COUNTY, NEW MEXICO NMOCD REF. # RP-

Section 20, Township 18 South, Range 34 East

Prepared for:

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May 23, 2007

E.K. Queen State Soils Remediation Workplan

Plains Pipeline, L.P. Houston, Texas

Talon/LPE PROJECT NO. PLAINS048SPL

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May 2007

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Location

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

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

1.2 Site Background

In February 2007, a release of approximately twenty (20) barrels of crude oil occurred at the site due to internal corrosion of the pipeline. Approximately seventeen thousand (17,000) square feet of surface area was impacted by the release. Approximately 4,000 cubic yards of soil were excavated and stockpiled on a plastic liner onsite.

1.3 Regulatory Framework

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

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

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

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

Benzene	10 ppm
Total BTEX	50 ppm
TPH	100 ppm

/

2.0 FIELD ACTIVITIES

2.1 Soil Investigation Activities

Talon/LPE commenced excavation activities at the site in February 2007 in order to remove soil impacted above the NMOCD remedial threshold limits. Approximately 4,000 cubic yards of soil were excavated and stockpiled on a plastic liner onsite. The excavated area is approximately 1,200 feet long, 15 to 30 feet wide, and 2 feet in depth.

2.2 Soil Sampling Activities

Upon the completion of excavation activities, grab samples were collected from north sidewall (SW-2, SW-3, and SW-4), the south sidewall (SW-5 and SW-6), and the west sidewall (SW-1) to document the successful removal of soil impacted above NMOCD remedial thresholds (reference Figure 2). In addition, grab samples were also collected from the bottom of the excavation area (BH-1 thru BH-5) as referenced in Figure 2. The sidewall samples, as well as the samples from the bottom of the excavation area, were submitted to TraceAnalysis, Inc. in Midland, Texas for BTEX analysis by EPA method 8021B and TPH analysis by EPA method 8015. The chain-of-custody forms and laboratory data sheets are provided in Appendix C. Laboratory analyses of the samples collected on May 7, 2007 showed all sampling locations in the excavated area, with the exception of BH-2 (116 mg/Kg TPH) and BH-4 (231 mg/Kg TPH) to be below the NMOCD remedial thresholds (reference The excavation area containing the sample location for sample BH-4 was over-Table 1). excavated one foot in depth, bringing the sample location excavation depth to eight feet. On May 12, 2007, upon the completion of the over-excavation activities, a grab sample was taken from the bottom of the excavation area (BH-4A) as referenced in Figure 2. Laboratory analyses of the sample BH-4A showed the excavation area to be below the NMOCD remedial thresholds (reference Table 1).

On May 7, 2007, ten five point composite stockpile samples (SP-1 thru SP-10) were collected from the excavated soil stockpiled onsite (reference Figure 2). The stockpile samples were submitted to TraceAnalysis, Inc. in Midland, Texas for TPH analysis by EPA method 8015. Each of the stockpile samples exhibited TPH concentrations above the NMOCD remedial threshold of 100 ppm for TPH (reference Table 1).

3.0 CONCLUSIONS

3.1 **Proposed Remediation Activities**

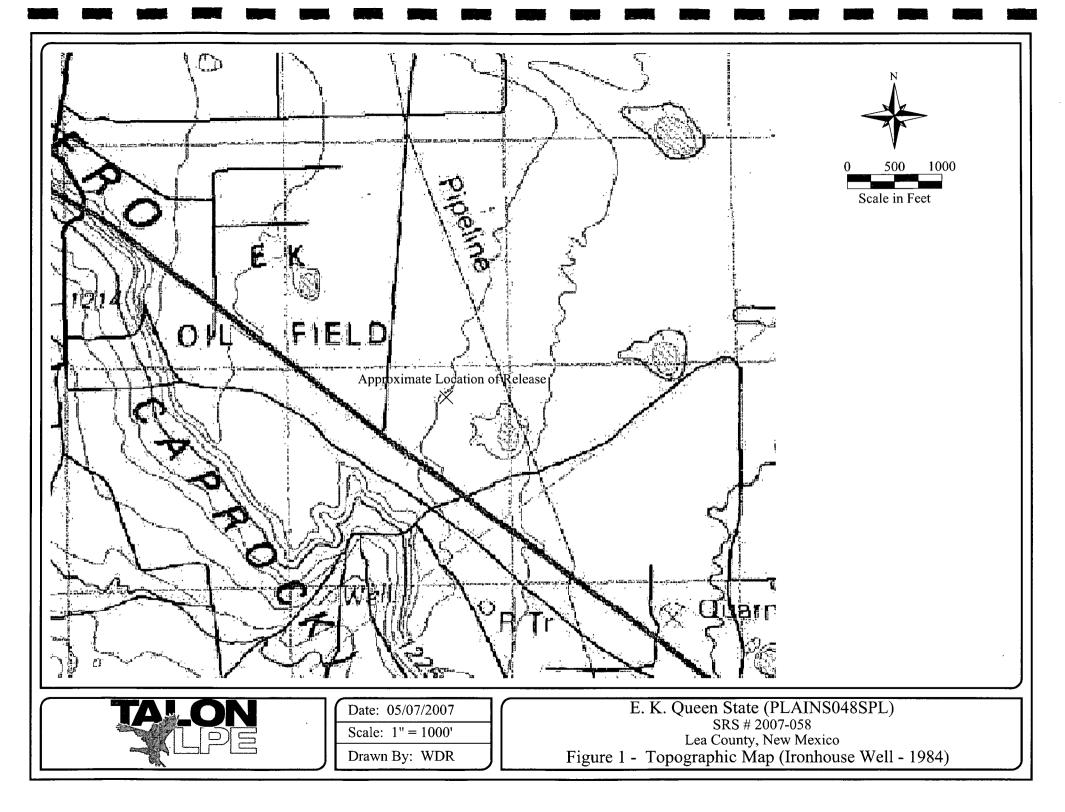
The excavation confirmation soil samples indicated TPH and Total BTEX concentrations below NMOCD remedial threshold limits. Due to TPH concentrations above the NMOCD remedial thresholds in the excavated soil, Talon/LPE proposes that the excavated rock be screened and separated from the excavated soil. The excavated soil will be transported to an NMOCD approved landfarm and the excavation area will be backfilled with both imported fill material, as well as the screened rock from the excavation area.

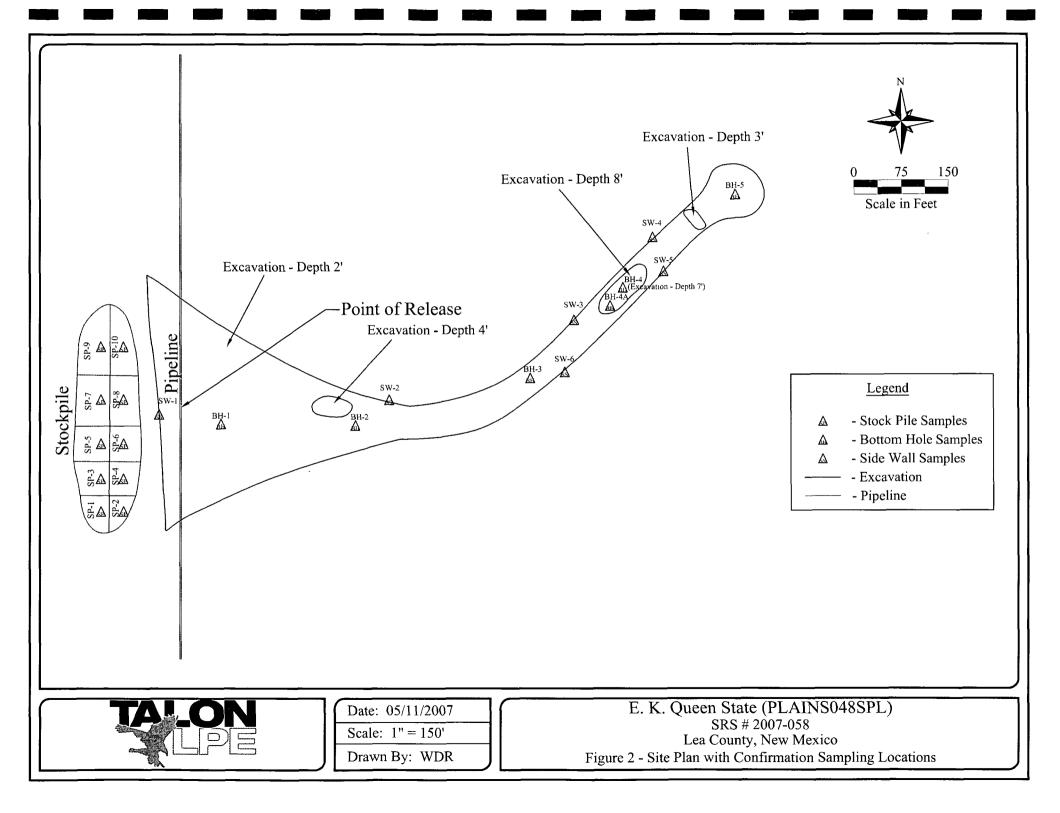
Upon completion of the backfill activities, the activities will be compiled as a soil closure report and submitted to the NMOCD for approval.

Appendix A

Drawings

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





APPENDIX B

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Tables

Table 1 – Summary of Soil Analytical Data

TALONLPE-

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

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

TALONLPE

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

					Conce	entration			
			mg/Kg				mg/Kg		
Sample Designation	Date Sampled	TPH DRO	TPH GRO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
BH-4A	05/12/07	58.5	3.85	62.3	< 0.0100	<0.0100	< 0.0100	< 0.0100	< 0.0100
NMOCD Remediation Gu	uldelines			100	10				50

¹**Bolded** values are in excess of the NMOCD Remediation Thresholds ⁴ NS - not sampled

APPENDIX C

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Laboratory Analytical Data Sheets and Chain of Custody Documentation



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway Suite 110 Ft. Worth Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 E-Mail lab@traceanalysis.com

800 • 378 • 1296 888+588+3443

806 • 794 • 1296 FAX 915+585+4944 915+585+3443 432+689+6301 FAX 432 • 689 • 6313 817 • 201 • 5260

Analytical and Quality Control Report

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

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

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

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

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

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael ale

Report Date: May 10, 2007

7050812

Work Order:

Dr. Blair Leftwich, Director

Standard Flags

:

.

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

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Case Narrative

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

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

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

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

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

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

Analytical Report

Sample: 123592 - SP-1

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Date Ana	d Method: dyzed: reparation:	Mod. 801 2007-05-0 2007-05-0	8	Analy	Method: N/A zed By: AG red By: AG
Parameter	Flag		RL Result		Units		Dilution	RL
DRO			130		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan		94.0	mg/Kg			150	63	61.7 - 143.2
Sample: 123 Analysis: QC Batch: Prep Batch:	3592 - SP-1 TPH GRO 37075 32159		Date Ana Sample P	l Method: lyzed: reparation:	S 8015B 2007-05-08 2007-05-08	-	Prep Me Analyze Preparee	d By: AG
Parameter	Flow		RL Result		Units		Dilution	DI
GRO	Flag		25.6		mg/Kg		Dilution 1	RL 1.00
Surrogate Trifluorotolue	ene (TFT)	Flag	Result 0.791	Units mg/Kg	Dilution 1	Spike Amount 1.00	Percent Recovery 79	Recovery Limits 52.4 - 123.7
4-Bromofluor	obenzene (4-BFB)		1.38	mg/Kg	1	1.00	138	67.5 - 140.3

Sample: 123593 - SP-2

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed:	Mod. 8 2007-05 2007-05	5-08	Prep Meth Analyzed F Prepared E		N/A AG AG
Parameter	Fla	g	RL Result		Unit	ts	Dilution		\mathbf{RL}
DRO			1720		mg/K	g	1		50.0
Surrogate	Flag	\mathbf{Result}	\mathbf{Units}	Diluti	on	Spike Amount	Percent Recovery	Reco Lin	·
n-Triacontane	e 1	269	m mg/Kg	1		150	179	61.7 -	143.2

Sample: 123593 - SP-2

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

¹High surrogate recovery due to peak interference.

Report Date: May 10, 2007 Plains048SPL

Parameter	Flag		RL Result		Units		Dilution	RL
GRO			1010		mg/Kg		100	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	\mathbf{Units}	Dilution	$\mathbf{A}\mathbf{m}\mathbf{o}\mathbf{u}\mathbf{n}\mathbf{t}$	Recovery	Limits
Trifluorotoluene (TFT)			84.6	mg/Kg	100	100	85	52.4 - 123.7
4-Bromofluorobenzene (4-B	FB)		104	mg/Kg	100	100	104	67.5 - 140.3

Sample: 123594 - SP-3

Analysis:TPH DROQC Batch:37108Prep Batch:32183			Analytical M Date Analyz Sample Prep	ed:	Mod. 8015H 2007-05-09 2007-05-09	3	Prep Method: Analyzed By: Prepared By:		
Parameter	Fla	ıg	RL Result		Units		Dilution		RL
DRO			26400		mg/Kg		5		50.0
Surrogate	Flag	Result	Units	Dilutio		Spike mount	${f Percent}$ Recovery		overy
n-Triacontane	2	788	mg/Kg	5		150	525	61.7 -	143.2

Sample: 123594 - SP-3

Analysis: QC Batch: Prep Batch:	TPH GRO 37117 32190		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-09 2007-05-09		Prep Me Analyzec Preparec	d By: AG
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			2310		mg/Kg		100	1.00
Surrogate Trifluorotolue 4-Bromofluor	ene (TFT) obenzene (4-BFB)	Flag	Result 86.2 138	Units mg/Kg mg/Kg	Dilution 100 100	Spike Amount 100 100	Percent Recovery 86 138	Recovery Limits 52.4 - 123.7 67.5 - 140.3

Sample: 123595 - SP-4

Analysis:	TPH DRO		Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37108		Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32183		Sample Preparation:	2007-05-09	Prepared By:	AG
			\mathbf{RL}			
Parameter	F	Flag	Result	Units	Dilution	\mathbf{RL}
DRO			10300	mg/Kg	5	50.0

²High surrogate recovery due to peak interference.

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

Sample: 123595 - SP-4

Analysis:TPH GROQC Batch:37117Prep Batch:32190		Analytical Method: 5 Date Analyzed: 5 Sample Preparation: 5				Prep Method: S 50 Analyzed By: AG Prepared By: AG		
		\mathbf{RL}						
Parameter Flag		\mathbf{Result}		Units		Dilution	\mathbf{RL}	
GRO		5940		mg/Kg		100	1.00	
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	0	110	mg/Kg	100	100	110	52.4 - 123.7	
4-Bromofluorobenzene (4-BFB)	4	236	mg/Kg	100	100	236	67.5 - 140.3	

Sample: 123596 - SP-5

Analysis: QC Batch: Prep Batch:	TPH DRO 37108 32183		Analytical M Date Analyz Sample Prep	ed:	Mod. 8 2007-0 2007-0	5-09	Analy	Method: yzed By: ared By:	N/A AG AG
Parameter	Fla	.pr	RL Result		Uni	its	Dilution		RL
DRO		°6	16300		mg/I		5		50.0
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery		overy nits
n-Triacontan	e 5	278	mg/Kg	5		150	185	61.7 -	143.2

Sample: 123596 - SP-5

ł

Analysis:TPH GROQC Batch:37117Prep Batch:32190		Date Analyzed: 2		S 8015B 2007-05-09 2007-05-09		Prep Me Analyze Preparec	d By: AG	
Parameter	Flag		RL Result	r	Units		Dilution	RL
GRO			3420		mg/Kg		200	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	${ m Percent}$ Recovery	Recovery Limits
Trifluorotoluo 4-Bromofluor	ene (TFT) robenzene (4-BFB)		$rac{161}{258}$.	mg/Kg mg/Kg	200 200	200 200	80 129	52.4 - 123.7 67.5 - 140.3

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

Sample: 123597 - SP-6

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed:	Mod. 8015B 2007-05-08 2007-05-08		Anal	Method: lyzed By: oared By:	N/A AG AG
			\mathbf{RL}						
Parameter	Fla	g	Result		Units		Dilution		\mathbf{RL}
DRO	······		2950	······	m mg/Kg		1		50.0
					S	pike	Percent	Reco	overy
Surrogate	Flag	\mathbf{Result}	Units	Diluti	on An	nount	Recovery	Lir	nits
n-Triacontane	e 6	387	mg/Kg	1	1	.50	258	61.7 -	143.2

Sample: 123597 - SP-6

Analysis:TPH GROQC Batch:37117Prep Batch:32190			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-09 2007-05-09	Prep Me Analyze Prepare		d By: AG
Parameter	Flag		RL Result	•	Units		Dilution	RL
GRO			2280	·	mg/Kg		100	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) robenzene (4-BFB)	7	85.9 143	mg/Kg mg/Kg	100 100	100 100	86 143	52.4 - 123.7 67.5 - 140.3

Sample: 123598 - SP-7

Analysis: QC Batch: Prep Batch:	TPH DRO 37108 32183		Analytical M Date Analyz Sample Prep	ed: 20	od. 8015B 07-05-09 07-05-09	Anal	Method: N/A yzed By: AG ared By: AG
			\mathbf{RL}				
Parameter	Fla	g	\mathbf{Result}		Units	Dilution	\mathbf{RL}
DRO			17600	n	ng/Kg	5	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	${ m Percent} { m Recovery}$	Recovery Limits
n-Triacontan	e ⁸	729	mg/Kg	5	150	486	61.7 - 143.2

Sample: 123598 - SP-7

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

⁶High surrogate recovery due to peak interference. ⁷High surrogate recovery due to peak interference.

⁸High surrogate recovery due to peak interference.

Parameter	Flag		${ m RL} { m Result}$		Units		Dilution	\mathbf{RL}
GRO			1050		mg/Kg		50	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			46.8	mg/Kg	50	50.0	94	52.4 - 123.7
4-Bromofluorobenzene (4-B	FB)		61.8	mg/Kg	50	50.0	124	67.5 - 140.3

Sample: 123599 - SP-8

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 2	4od. 8015B 007-05-08 007-05-08	Anal	Method: N/A yzed By: AG ared By: AG
Parameter	Fla	g	${f RL}$ Result		Units	Dilution	\mathbf{RL}
DRO			4280		mg/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilutior	Spike n Amount	Percent Recovery	Recovery Limits
n-Triacontane	9 9	380	mg/Kg	1	150	253	61.7 - 143.2

Sample: 123599 - SP-8

Analysis: QC Batch: Prep Batch:	TPH GRO 37117 32190		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-09 2007-05-09		Prep Me Analyzeo Prepareo	d By: AG
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO			1870		mg/Kg		100	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
	((1))	Tiag						
Trifluorotolue	• •		85.7	mg/Kg	100	100	86	52.4 - 123.7
4-Bromofluor	obenzene (4-BFB)		128	mg/Kg	100	100	128	67.5 - 140.3

Sample: 123600 - SP-9

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2007-05-08 2007-05-08	Prep Method: Analyzed By: Prepared By:	ÁG
-			RL			
Parameter	I	Flag	Result	Units	Dilution	\mathbf{RL}
DRO			2170	mg/Kg	1	50.0

⁹High surrogate recovery due to peak interference.

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

Sample: 123600 - SP-9

Analysis: QC Batch: Prep Batch:	- 0		Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-09 2007-05-09		Prep Method: S 50 Analyzed By: AG Prepared By: AG	
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			228		mg/Kg		20	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	iene (TFT)		17.8	mg/Kg	20	20.0	89	52.4 - 123.7
4-Bromofluo	robenzene (4-BFB)		19.7	mg/Kg	20	20.0	98	67.5 - 140.3
Sample: 12	23601 - SP-10							

Analysis:	TPH DRO		Analytical M		8015B	-	Method: N/A
QC Batch:	37068		Date Analyz	ed: 2007-	-05-08	Anal	yzed By: AG
Prep Batch:	32157		Sample Prep	paration: 2007	-05-08	Prep	ared By: AG
			\mathbf{RL}				
Parameter	Fla	g	\mathbf{Result}	U	nits	Dilution	RL
DRO			1600	mg	/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	9	177	mg/Kg	1	150	118	61.7 - 143.2

Sample: 123601 - SP-10

Analysis:TPH GROQC Batch:37117Prep Batch:32190			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-09 2007-05-09		Prep Me Analyze Prepared	d By: AG
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	× .	Dilution	\mathbf{RL}
GRO			605		mg/Kg		50	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		46.1	mg/Kg	50	50.0	92	52.4 - 123.7
	obenzene (4-BFB)		49.9	mg/Kg	50	50.0	100	67.5 - 140.3

Report Date: May 10 Plains048SPL), 2007		Work Order: 7050812 EK Queen State				Page Number: 10 of 15 Lea County, NM		
Method Blank (1)	QC Ba	tch: 37068							
QC Batch: 37068			Date Ana		2007-05-08			yzed By: AG	
Prep Batch: 32157			QC Prepa	aration:	2007-05-08		Prep	ared By: M	
Danamatan		Flag		MI Res		T	Inits	R	
Parameter DRO		r tag		<12			g/Kg	<u>11</u>	
Surrogate	Flag	Result	Units	D	ilution	Spike Amount	Percent Recovery	Recovery Limits	
n-Triacontane	0	102	mg/Kg		1	150	68	61.7 - 143	
QC Batch: 37075 Prep Batch: 32159 Parameter	J	Flag	Date Ana QC Prepa	aration: MI Res	ult	-	Prep Jnits	yzed By: A(ared By: A(R	
GRO				<0.7	739	m	g/Kg		
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units			· · · · ·	Limits	
Trifluorotoluene (TFT 4-Bromofluorobenzene			$0.887 \\ 0.982$	mg/Ka mg/Ka		$1.00 \\ 1.00$	89 98	52.4 - 123 67.5 - 140	
Method Blank (1) QC Batch: 37108 Prep Batch: 32183	QC Bat	ch: 37108	Date Ana QC Prepa	•				yzed By: AG ared By: MS	
Parameter	I	Flag		Resu	ılt		nits	R	
DRO				<13	5.4	mĮ	g/Kg	5	
· · · · ·	lag	Result	Units	Di	lution	Spike Amount	Percent Recovery	Recovery Limits	
Surrogate F		104	mg/Kg		1	150	69	61.7 - 143	

QC Batch: 37117		Date Analyzed:	2007-05-09		Analyzed By:	AG
Prep Batch: 32190		QC Preparation:	2007-05-09		Prepared By:	AG
		MI	JL			
Parameter	Flag	Resu	ult	Units		\mathbf{RL}
GRO		0.8	72	mg/Kg		1

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

Laboratory Control Spike (LCS-1)

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

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
DRO	314	mg/Kg	1	250	<13.4	126	62.5 - 135.4	17	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	116	131	mg/Kg	1	150	77	87	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	\mathbf{AG}
Prep Batch:	32159	QC Preparation:	2007-05-08	Prepared By:	\mathbf{AG}

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
GRO	8.34	mg/Kg	1	10.0	< 0.739	83	57.7 - 102.5	5	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.18	1.20	mg/Kg	1	1.00	118	120	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.00	1.01	mg/Kg	1	1.00	100	101	70 - 130

Laboratory Control Spike (LCS-1)

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

Plains048SPL	007		V	Vork Or EK Qu				lumber: Lea Cour			
Param		LCS Resu	ilt I	Units	Dil.	Spike Amour	nt Re	atrix esult	Rec.	L	Rec. Jimit
DRO		220) n	ng/Kg	1	250	<	13.4	88	62.5	- 135.4
Percent recovery is based	on the s	pike result.	RPD is	based or	n the spike	e and spik	e duplica	te resu	ılt.		
		LCSD			Spike	Matri	x		Rec.		RPD
Param		Result	Units	Dil.	Amount				Limit	RPD	Limit
DRO		218	mg/Kg	1	250	<13.4	87	62.5	5 - 135.4	1	20
Percent recovery is based	on the s	pike result.	RPD is	based or	n the spike	and spik	e duplica	te resu	ılt.		
	LCS	LCSD				Spike	LC	PC	LCSD	1	Rec.
Surrogate	Result	Result	II	nits	Dil.	Amoun			Rec.		imit
n-Triacontane	122	100		g/Kg	1	150	8		67		- 140.9
Laboratory Control Sp QC Batch: 37117 Prep Batch: 32190	pike (LC	'S-1)	Date Ar	nalyzed: paration						lyzed By bared By	
1 lep Daten. 52150		LCS		paradon	1. 2007-0	Spike	Ma	atrix	тер		. AG
Param		Resu		Units	Dil.	Amoun		esult	Rec.		imit
GRO		8.35	; m	ng/Kg	1	10.0	<0	0.739	84	57.7	- 102.
Param GRO		LCSD Result 7.21	Units mg/Kg	Dil.	Spike Amount 10.0	< 0.739	Rec. 72	1 57.7	Rec. Limit 7 - 102.5	RPD 15	RPD Limit 20
Percent recovery is based	on the sp	pike result.	RPD is I	based or	1 the spike	and spik	e duplicat	te resu	lt.		
		LCS	LCS	SD		5	Spike	LCS	LCSD	I	Rec.
		Degral	. D.	. .	TT. the			D	Dee		· · · · · ·
		Resul				Dil. A	mount	Rec.	Rec.		imit
Irifluorotoluene (TFT)		1.19	0.8	14 n	ng/Kg	1	1.00	119	81	36.8	- 152.5
Trifluorotoluene (TFT)	BFB)			14 n		1				36.8	
Surrogate Irifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1)		1.19 1.01 Sample: 12	0.8 1.0 23603	14 m)0 m	ng/Kg ag/Kg	1 1	1.00	119	81 100	36.8 70	- 152.5 - 130
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-		1.19 1.01 Sample: 12	0.8 1.0	14 m 00 m nalyzed:	ng/Kg ng/Kg 2007-05	1 1 5-08	1.00	119	81 100 Anal	36.8	- 152.5 - 130 : AG
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch: 37068		1.19 1.01 Sample: 12	0.8 1.0 23603 Date An QC Prep	14 m 00 m nalyzed: paration	ng/Kg ag/Kg 2007-0: : 2007-0!	1 1 5-08 5-08 Spike	1.00 1.00 Ma	119 101	81 100 Anal Prep	36.8 70 lyzed By ared By: F	- 152. - 130 : AG : MS Rec.
Irifluorotoluene (TFT) 1-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param		1.19 1.01 Sample: 12 MS	0.8 1.0 23603 Date An QC Prep	14 m 00 m nalyzed:	ng/Kg ng/Kg 2007-03	1 1 5-08 5-08	1.00 1.00 t Re	119 101	81 100 Anal	36.8 70 lyzed By ared By F L	- 152.5 - 130 : AG : MS
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO	Spiked	1.19 1.01 Sample: 12 MS Resul 383	0.8 1.0 23603 Date An QC Prep It U m	14 m 00 m halyzed: paration Jnits g/Kg	ng/Kg ng/Kg 2007-0: : 2007-0: Dil. 1	1 1 5-08 5-08 Spike Amoun 250	1.00 1.00 t Re <1	119 101 ttrix sult 13.4	81 100 Anal Prep Rec. 153	36.8 70 lyzed By ared By F L	- 152. - 130 : AG : MS Rec. imit
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157	Spiked	1.19 1.01 Sample: 12 MS Resul 383	0.8 1.0 23603 Date An QC Prep It U m	14 m 00 m halyzed: paration Jnits g/Kg	ng/Kg ng/Kg 2007-0: : 2007-0: Dil. 1	1 1 5-08 5-08 Spike Amoun 250	1.00 1.00 t Re <1 e duplicat	119 101 ttrix sult 13.4 te resu	81 100 Anal Prep Rec. 153	36.8 70 lyzed By ared By F L	- 152. - 130 : AG : MS Rec. imit

Report Date: May Plains048SPL	10, 2007				rder: 70508 ueen State					umber: Lea Cou	
	MS	MSD				Spike	М	s	MSD]	Rec.
Surrogate	\mathbf{Result}	Result		Units	Dil.	Amount	Re	c.	Rec.	I	imit
n-Triacontane	114	120	I	mg/Kg	1	150	76	3	80	43.4	- 193.9
Matrix Spike (MS	5-1) Spiked S	Sample: 12	23611								
QC Batch: 37075			Date A	Analyzed	: 2007-0	5-08			Anal	lyzed By	: AG
Prep Batch: 32159			QC P	reparatio	n: 2007-0	5-08			Prep	ared By	: AG
		MS	5			Spike	М	atrix			Rec.
Param		Resu	ılt	Units	Dil.	Amount	R	esult	Rec.		Limit
GRO		9.08	8	mg/Kg	1	10.0		.12	50	10	- 141.5
Percent recovery is b	based on the spi				n the spike						
		MSD			Spike	Matrix			Rec.		RPD
Param		Result	Units	5 Dil.	Amoun		Rec.		Limit	RPD	Limit
GRO		9.70	mg/K		10.0	4.12	56		- 141.5	7	20
-	based on the spil				n the spike	•	•			1	200
Percent recovery is b Surrogate Trifluorotoluene (TF	Т)	ke result. MS Resul 0.661 1.17	N t R 1 0	ASD esult 0.673	n the spike Units mg/Kg mg/Kg	Sp Dil. Am 1	uplicate ike ount 1 1	e resul MS Rec. 66 117	nt. MSD Rec. 67 115	<u> </u>	Rec. .imit - 125.3 - 144.5
Percent recovery is b Surrogate Irifluorotoluene (TF I-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108	T) ne (4-BFB)	MS Resul 0.661	N 1 0 23595 Date A	ASD esult 0.673	Units mg/Kg mg/Kg 2007-03	Sp <u>Dil. Am</u> 1 1 5-09	ike ount 1	MS Rec. 66	MSD Rec. 67 115 Anal	<u> </u>	imit - 125.3 - 144.5 : AG
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108	T) ne (4-BFB)	MS Resul 0.661 1.17	N It R I 0 23595 Date A QC Pr	MSD esult 0.673 1.15 Analyzed:	Units mg/Kg mg/Kg 2007-03	Sp Dil. Am 1 1 5-09 5-09	ike ount 1 1	MS Rec. 66 117	MSD Rec. 67 115 Anal	40 86.7 lyzed By ared By	imit - 125.3 - 144.5 : AG : MS
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzen Matrix Spike (MS 2C Batch: 37108 Prep Batch: 32183	T) ne (4-BFB)	MS Resul 0.661 1.17 ample: 12	N It R I 0 23595 Date A QC Pr	MSD esult .673 1.15 Analyzed: reparation	Units mg/Kg mg/Kg 2007-0: n: 2007-0:	Sp Dil. Am 1 1 5-09 5-09 Spike	ike ount I 1	MS Rec. 66 117	MSD Rec. 67 115 Anal Prep	I 40 86.7 lyzed By ared By	imit - 125.3 - 144.5 : AG : MS Rec.
Percent recovery is b Gurrogate Irifluorotoluene (TF I-Bromofluorobenzen Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183	T) ne (4-BFB) -1) Spiked S	MS Resul 0.661 1.17 ample: 12 MS Resu	N It R I 0 23595 Date A QC Pr S Ilt	MSD esult 0.673 1.15 Analyzed: reparation Units	Units mg/Kg mg/Kg 2007-03 n: 2007-03 Dil.	Sp Dil. Am 1 1 5-09 5-09 Spike Amount	ike ount 1 1 Mav Res	MS Rec. 66 117	MSD Rec. 67 115 Anal Prep Rec.	I 40 86.7 lyzed By ared By I L	imit - 125.3 - 144.5 : AG : MS Rec. imit
Percent recovery is b Gurrogate Irifluorotoluene (TF I-Bromofluorobenzen Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183	T) ne (4-BFB)	MS Resul 0.661 1.17 ample: 12	N It R I 0 23595 Date A QC Pr S Ilt	MSD esult .673 1.15 Analyzed: reparation	Units mg/Kg mg/Kg 2007-0: n: 2007-0:	Sp Dil. Am 1 1 5-09 5-09 Spike	ike ount I 1	MS Rec. 66 117	MSD Rec. 67 115 Anal Prep	I 40 86.7 lyzed By ared By I L	imit - 125.3 - 144.5 : AG : MS Rec. imit
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183 Param DRO	T) ne (4-BFB) -1) Spiked S	MS Resul 0.661 1.17 ample: 12 MS Resu 1300	N It R I 0 23595 Date A QC Pr S Ilt D0	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg	Units mg/Kg mg/Kg 2007-0: n: 2007-0: Dil. 5	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250	ike ount 1 1 Ma Res 103	MS Rec. 66 117 trix sult	MSD Rec. 67 115 Anal Prep Rec. 1080	I 40 86.7 lyzed By ared By I L	imit - 125.3 - 144.5 : AG : MS Rec. imit
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS 2C Batch: 37108 Prep Batch: 32183 Param DRO Percent recovery is b	T) ne (4-BFB) -1) Spiked S	MS Resul 0.661 1.17 ample: 12 MS Resu 1300 ac result. MSD	N It R I 0 23595 Date A QC Pr S Ilt D0 RPD is	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of	Units mg/Kg mg/Kg 2007-0: n: 2007-0: Dil. 5 n the spike Spike	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix	ike ount 1 1 Mar Res 103 uplicate	MS Rec. 66 117 trix trix toult 800 e resul	MSD Rec. 67 115 Anal Prep Rec. 1080	I 40 86.7 lyzed By bared By I L 29.7	imit - 125.3 - 144.5 : AG : MS Rec. imit - 168.6
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183 Param DRO Percent recovery is b Param	T) ne (4-BFB) 5-1) Spiked S 	MS Resul 0.661 1.17 ample: 12 ample: 12 MS Result MSD Result	N It R I 0 23595 Date A QC Pr S Ilt D0 RPD is Units	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of s Dil.	Units mg/Kg mg/Kg 2007-0: n: 2007-0: Dil. 5 n the spike Amount	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix Result	ike ount 1 1 Ma Res 103	MS Rec. 66 117 trix sult 600 e resul H	MSD Rec. 67 115 Anal Prep Rec. 1080 t. Rec. imit	I 40 86.7 byzed By bared By I L 29.7 RPD	imit - 125.3 - 144.5 - 144.5 : AG : MS Rec. imit - 168.6 RPD Limit
Percent recovery is b Gurrogate Irifluorotoluene (TF I-Bromofluorobenzen Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183 Param DRO Percent recovery is b Param DRO	T) ne (4-BFB) -1) Spiked S -10 ased on the spik	MS Resul 0.661 1.17 ample: 12 ample: 12 MS Resul 1300 ac result. MSD Result 8680	N It R I 0 23595 Date A QC Pr S Ilt D0 RPD is mg/K	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of s based of g 5	Units mg/Kg mg/Kg 2007-03 n: 2007-03 Dil. 5 n the spike Amount 250	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix Result 10300	ike ount 1 1 1 Ma Res 103 uplicate Rec. 1	MS Rec. 66 117 trix cult 600 e resul L 29.7	MSD Rec. 67 115 Anal Prep Rec. 1080 t. Rec. imit - 168.6	I 40 86.7 lyzed By bared By I L 29.7	imit - 125.3 - 144.5 - 144.5 : AG : MS Rec. imit - 168.6 RPD
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzen Matrix Spike (MS 2C Batch: 37108 2rep Batch: 32183 Param DRO Percent recovery is b Param DRO	T) ne (4-BFB) -1) Spiked S -10 ased on the spik	MS Resul 0.661 1.17 ample: 12 ample: 12 MS Resul 1300 ac result. MSD Result 8680	N It R I 0 23595 Date A QC Pr S Ilt D0 RPD is mg/K	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of s based of g 5	Units mg/Kg mg/Kg 2007-03 n: 2007-03 Dil. 5 n the spike Amount 250	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix Result 10300	ike ount 1 1 1 Ma Res 103 uplicate Rec. 1	MS Rec. 66 117 trix cult 600 e resul L 29.7	MSD Rec. 67 115 Anal Prep Rec. 1080 t. Rec. imit - 168.6	I 40 86.7 byzed By bared By I L 29.7 RPD	imit - 125.3 - 144.5 - 144.5 : MS Rec. imit - 168.6 RPD Limit
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108	T) ne (4-BFB) -1) Spiked S -10 ased on the spik	MS Resul 0.661 1.17 ample: 12 ample: 12 MS Resul 1300 ac result. MSD Result 8680	N It R I 0 23595 Date A QC Pr S Ilt D0 RPD is mg/K RPD is	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of s based of g 5	Units mg/Kg mg/Kg 2007-03 n: 2007-03 Dil. 5 n the spike Amount 250	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix Result 10300	ike ount 1 1 1 Ma Res 103 uplicate Rec. 1	MS Rec. 66 117 trix cult 600 F resul 29.7 resul	MSD Rec. 67 115 Anal Prep Rec. 1080 t. Rec. imit - 168.6	I 40 86.7 lyzed By ared By I L 29.7 RPD 40	imit - 125.3 - 144.5 - 144.5 : MS Rec. imit - 168.6 RPD Limit
Percent recovery is b Surrogate Irifluorotoluene (TF 4-Bromofluorobenzer Matrix Spike (MS QC Batch: 37108 Prep Batch: 32183 Param DRO Percent recovery is b Param DRO Percent recovery is b Caram	T) ne (4-BFB) -1) Spiked S -10 ased on the spik 	MS Resul 0.661 1.17 ample: 12 MS Resul 1300 ce result. MSD Result 8680 ce result.	N It R I 0 23595 Date A QC Pr S Ilt 200 RPD is mg/K RPD is D Ilt	MSD esult .673 1.15 Analyzed: reparation Units mg/Kg s based of s based of g 5	Units mg/Kg mg/Kg 2007-03 n: 2007-03 Dil. 5 n the spike Amount 250	Sp Dil. Am 1 1 5-09 5-09 5-09 Spike Amount 250 and spike d Matrix Result 10300 and spike d	Mar Mar Res 103 uplicate 1 uplicate	MS Rec. 66 117 trix cult 600 e resul L 29.7 e resul S	MSD Rec. 67 115 Anal Prep Rec. 1080 t. Rec. imit - 168.6 t.	I 40 86.7 lyzed By ared By I L 29.7 RPD 40	imit - 125.3 - 144.5 - 144.5 : AG : MS Rec. imit - 168.6 RPD Limit 20

¹⁰Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
 ¹²High surrogate recovery due to peak interference.
 ¹³High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 123612 2007-05-09 QC Batch: 37117 Date Analyzed: Analyzed By: AG Prep Batch: 32190 QC Preparation: 2007-05-09 Prepared By: AG MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit GRO 6.36 10.0 0.9561 10 - 141.5 mg/Kg 54 1 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MSD Spike Matrix RPD Rec. Units Dil. Param Result Amount Result Rec. Limit RPD Limit GRO 6.54mg/Kg 10.0 0.9561 56 10 - 141.5 1 3 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MS MSD MS MSD Spike Rec. Surrogate Result Result Units Dil. Limit Amount Rec. Rec. Trifluorotoluene (TFT) 0.709 0.702 mg/Kg 40 - 125.3 71 70 1 1 4-Bromofluorobenzene (4-BFB) 1.08 1.08 mg/Kg 1 1 108 108 86.7 - 144.5 Standard (ICV-1) QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG **ICVs ICVs** ICVs Percent True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Analyzed Limits DRO mg/Kg 250232 93 85 - 115 2007-05-08 Standard (CCV-1) QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG CCVs **CCVs** CCVs Percent True Found Percent Recovery Date Flag Param Units Conc. Conc. Analyzed Recovery Limits DRO mg/Kg 250287115 85 - 115 2007-05-08 Standard (CCV-2) QC Batch: 37068 Date Analyzed: 2007-05-08 Analyzed By: AG CCVs CCVs CCVs Percent True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed DRO mg/Kg 25022088 85 - 115 2007-05-08

Standard (ICV-1)

QC Batch: 37075

Date Analyzed: 2007-05-08

Analyzed By: AG

Report Da Plains048	ate: May 10, 2 SPL	2007	W	ork Order: 705 EK Queen Sta			umber: 15 of 15 Lea County, NM
Param GRO	Flag	Units mg/Kg	ICVs True Conc. 1.00	ICVs Found Conc.	ICVs Percent Recovery 91	Percent Recovery Limits 85 - 115	Date Analyzed 2007-05-08
			2.00				
Standard	(CCV-1)						
QC Batch:	37075		Date An	alyzed: 2007-0	5-08	Anal	lyzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.968	97	85 - 115	2007-05-08
Standard	(CCV-1)						
QC Batch:	37108		Date Ana	alyzed: 2007-0	5-09	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
			~	C	Recovery	Limits	Analyzed
Param	Flag	\mathbf{Units}	Conc.	Conc.	recovery	LIIIIUS	Anaryzeu
Param DRO	Flag	Units mg/Kg	250	266	106	85 - 115	2007-05-09
DRO	(CCV-2)		250		106	85 - 115	
DRO Standard	(CCV-2)		250	266	106	85 - 115	2007-05-09
DRO Standard	(CCV-2)		250 Date Ana	266 alyzed: 2007-0	106	85 - 115 Anal	2007-05-09
DRO Standard	(CCV-2)	mg/Kg Units	250 Date Ana CCVs	266 alyzed: 2007-0 CCVs	106 5-09 CCVs	85 - 115 Anal Percent	2007-05-09 yzed By: AG
DRO Standard QC Batch: Param	(CCV-2) 37108	mg/Kg	250 Date Ana CCVs True	266 alyzed: 2007-0 CCVs Found	106 5-09 CCVs Percent	85 - 115 Anal Percent Recovery	2007-05-09 yzed By: AG Date
DRO Standard QC Batch:	(CCV-2) 37108 Flag	mg/Kg Units	250 Date Ana CCVs True Conc.	266 alyzed: 2007-0 CCVs Found Conc.	106 5-09 CCVs Percent Recovery	85 - 115 Anal Percent Recovery Limits	2007-05-09 yzed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO	(CCV-2) 37108 Flag (ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250	266 alyzed: 2007-0 CCVs Found Conc.	106 5-09 CCVs Percent Recovery 113	85 - 115 Anal Percent Recovery Limits 85 - 115	2007-05-09 yzed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard	(CCV-2) 37108 Flag (ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0	106 5-09 CCVs Percent Recovery 113 5-09	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal	2007-05-09 yzed By: AG Date Analyzed 2007-05-09
DRO Standard QC Batch: Param DRO Standard	(CCV-2) 37108 Flag (ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs	106 5-09 CCVs Percent Recovery 113	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG
DRO Standard QC Batch: Param DRO Standard QC Batch:	(CCV-2) 37108 Flag (ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0	106 5-09 CCVs Percent Recovery 113 5-09 ICVs	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal	2007-05-09 yzed By: AG Date Analyzed 2007-05-09
DRO Standard QC Batch: Param DRO Standard QC Batch: Param	(CCV-2) 37108 Flag (ICV-1) 37117	mg/Kg Units mg/Kg	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found	106 5-09 CCVs Percent Recovery 113 5-09 ICVs Percent	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date
DRO Standard QC Batch: Param DRO Standard QC Batch: Param GRO	(CCV-2) 37108 Flag (ICV-1) 37117 Flag	mg/Kg Units mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True Conc.	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found Conc.	106 5-09 CCVs Percent Recovery 113 5-09 ICVs Percent Recovery	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard	(CCV-2) 37108 Flag (ICV-1) 37117 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found Conc.	106 5-09 CCVs Percent Recovery 113 5-09 ICVs Percent Recovery 113	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard	(CCV-2) 37108 Flag (ICV-1) 37117 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found Conc. 1.13	106 5-09 CCVs Percent Recovery 113 5-09 ICVs Percent Recovery 113	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date Analyzed 2007-05-09
DRO Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard	(CCV-2) 37108 Flag (ICV-1) 37117 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00 Date Ana	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found Conc. 1.13	106 5-09 CCVs Percent Recovery 113 5-09 ICVs Percent Recovery 113	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date Analyzed 2007-05-09
DRO Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard	(CCV-2) 37108 Flag (ICV-1) 37117 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00 Date Ana CCVs	266 alyzed: 2007-0 CCVs Found Conc. 283 alyzed: 2007-0 ICVs Found Conc. 1.13 alyzed: 2007-0 CCVs	1065-09CCVs Percent Recovery1135-09ICVs Percent Recovery1135-09CCVs	85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent	2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG Date Analyzed 2007-05-09 yzed By: AG

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LAB# FIELD CODE LAB USE ONLY	# CONTAINERS	Volume / Amount	WATER SOIL	AIR	SLUDGE	HCI	HNO ₃	H ₂ SO4	NaUH ICF	NONE		DATE	TIME	MTBE 802	TPH 418.1 / TX1005 / TX1005 Ext(C35)	PAH 8270C /	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 /	Pesticides 8081A/	BOD, TSS, pH	Moisture Cor				Turn Around Time if different from	Hold
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511 SP-3	1					4						5/7	b:15					_									\downarrow				
515 SP- 4	/											517	10:30											_			+		_		<u> </u>
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 6701 Aberdeen Avenue, Suite 9
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 Midbino Texas 79703
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1296 FAX 806 794 1298 3443 FAX 915 585 4944 6301 FAX 432 689 6313 5260

Report Date: May 10, 2007

7050813

Work Order:

Analytical and Quality Control Report

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

Project Location:Lea County, NMProject Name:EK Queen StateProject Number:Plains048SPL

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

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

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael ale

Dr. Blair Leftwich, Director

Standard Flags

 ${\bf B}\,$ - The sample contains less than ten times the concentration found in the method blank.

Page 2 of 24

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Case Narrative

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

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

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

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

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

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

4-Bromofluorobenzene (4-BFB)

Analytical Report

Sample: 12	3602 - SW-1							
Analysis:	BTEX	BTEX Analytical Method:		Method:	S 8021B		Prep Me	ethod: S 5035
QC Batch:	37074		Date Analy	zed:	2007-05-08		Analyze	d By: AG
Prep Batch:	32159		Sample Pre	paration:	2007-05-08		Prepare	d By: AG
			RI	_				
Parameter	Fla	g	Resul		Units		Dilution	\mathbf{RL}
Benzene		-	< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzen	e		0.0398	8	mg/Kg		1	0.0100
Xylene			0.11	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate	·	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu			0.866	mg/Kg	1	1.00	87	26 - 117.8
4-Bromofluo	robenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	51.1 - 119.1
Sample: 12	3602 - SW-1							
Analysis:	TPH DRO		Analytica	l Method:	Mod. 8015	B	Pren	Method: N/A
QC Batch:	37068		Date Ana		2007-05-08	D	-	zed By: AG
Prep Batch:	32157			reparation				red By: AG
Trop Butom	02101		-	ropulation	. 2001 00 00		ropa	ica 25. 110
Denementor	Elem		RL		Units		Dilution	рт
Parameter DRO	Flag		Result <50.0		mg/Kg		<u>1</u>	RL 50.0
			< 30.0		mg/Kg		¥	50.0
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units			mount	Recovery	Limits
n-Triacontan	e	125	mg/Kg		1	150	83	61.7 - 143.2
Sample: 12	3602 - SW-1							
Analysis:	TPH GRO		•	l Method:	S 8015B		Prep Me	
QC Batch:	37075		Date Ana	v	2007-05-08		Analyze	v
Prep Batch:	32159		Sample P	reparation	: 2007-05-08		Prepare	d By: AG
*			RL					_
Parameter	Flag		Result	 	Units		Dilution	RL
GRO			19.0		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)	riag	0.804	mg/Kg	1	1.00	80	52.4 - 123.7
	$\frac{1}{1} $		0.004	mg/ng	1	1.00	00	52.4 - 125.7

1.11

mg/Kg

1

1.00

111

67.5 - 140.3

Sample: 123603 - SW-2

Analysis: QC Batch:	BTEX 37074			Analytical I Date Analy		S 8021B 2007-05-08	Prep Met Analyzed		
Prep Batch:	32159			Sample Pre		2007-05-08 Prepare		d By: AG	
				RI	L				
Parameter		Flag		Resul	t	Units		Dilution	\mathbf{RL}
Benzene				< 0.010	0	mg/Kg		1	0.0100
Toluene				< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	è			< 0.010	0	mg/Kg		1	0.0100
Xylene			0.0542		mg/Kg		1	0.0100	
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.878	mg/Kg	1	1.00	88	26 - 117.8
4-Bromofluor	obenzene (4-	BFB)		0.829	mg/Kg		1.00	83	51.1 - 119.1

Sample: 123603 - SW-2

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 2007-	: 2007-05-08		Method: N/A yzed By: AG ared By: AG
			\mathbf{RL}				
Parameter	Parameter Flag		Result	U	nits	Dilution	RL
DRO			<50.0	mg	/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	138	mg/Kg	1	150	92	61.7 - 143.2

Sample: 123603 - SW-2

Analysis: QC Batch: Prep Batch:	TPH GRO 37075 32159		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-08 2007-05-08	Prep Met Analyzed Prepared		d By: AG
			RL					_
Parameter	Flag		Result		Units		Dilution	RL
GRO			9.58		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.808	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluor	obenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	67.5 - 140.3

Sample: 123604 - SW-3

Analysis: QC Batch:	BTEX 37074			Analytical I Date Analy		S 8021B 2007-05-08		Prep Me Analyze	
Prep Batch:	32159			Sample Pre	paration:	2007-05-08		Prepared B	
				RI	L				
Parameter]	Flag		Resul	t	Units		Dilution	\mathbf{RL}
Benzene				< 0.010	0	mg/Kg		1	0.0100
Toluene				< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	9			< 0.010	0	mg/Kg		1	0.0100
Xylene				0.041	9	mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.855	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluor	obenzene (4-BF	B)		0.828	mg/Kg		1.00	83	51.1 - 119.1

Sample: 123604 - SW-3

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 2003	l. 8015B 7-05-08 7-05-08	Anal	Method: N/A yzed By: AG ared By: AG
			RL				
Parameter	Fla	g	Result	1	Units	Dilution	\mathbf{RL}
DRO			<50.0	m	g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan		113	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123604 - SW-3

Analysis: QC Batch: Prep Batch:	\mathbb{C} Batch: 37075		Date Ana	l Method: lyzed: reparation:	2007-05-08		Prep Me Analyzec Preparec	d By: AG
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO			6.36		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	\mathbf{Amount}	Recovery	Limits
Trifluorotolu	ene (TFT)		0.780	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluor	robenzene (4-BFB)		1.30	mg/Kg	1	1.00	130	67.5 - 140.3

Sample: 123605 - SW-4

Analysis: QC Batch: Prep Batch:	BTEX 37074 32159			Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-05-08 2007-05-08		Prep Metho Analyzed E Prepared B	
•				- RI	-				
Parameter		Flag		Resul		Units		Dilution	\mathbf{RL}
Benzene				< 0.010	0	mg/Kg		1	0.0100
Toluene				< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	9			< 0.010	0	mg/Kg		1	0.0100
Xylene				0.034	9	mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.857	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluor	• •	BFB)		0.834	mg/Kg		1.00	83	51.1 - 119.1

Sample: 123605 - SW-4

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 2007	l. 8015B 7-05-08 7-05-08	Anal	Method: N/A yzed By: AG ared By: AG
			\mathbf{RL}				
Parameter	Fla	g	Result	l	Jnits	Dilution	\mathbf{RL}
DRO			<50.0	mį	g/Kg	1	50.0
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	190	mg/Kg	1	150	127	61.7 - 143.2

Sample: 123605 - SW-4

Analysis:TPH GROQC Batch:37075Prep Batch:32159			Analytical Method: Date Analyzed: Sample Preparation:				Prep Me Analyze Preparec	d By: AG
Parameter GRO	Flag	<u> </u>	RL Result 5.09		Units mg/Kg		Dilution	RL
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluo 4-Bromofluor	ene (TFT) robenzene (4-BFB)		$\begin{array}{c} 0.793 \\ 1.31 \end{array}$	mg/Kg mg/Kg	1 1	$1.00 \\ 1.00$	79 131	52.4 - 123.7 67.5 - 140.3

Sample: 123606 - SW-5

Analysis: QC Batch: Prep Batch:	BTEX 37074 32159			Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-05-08 2007-05-08		Prep Meth Analyzed E Prepared E	
				RI	J				
Parameter]	Flag		Resul	t	Units		Dilution	\mathbf{RL}
Benzene				< 0.010	0	mg/Kg		1	0.0100
Toluene				< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	!			< 0.010)	mg/Kg		1	0.0100
Xylene				< 0.010)(mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.856	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluor	obenzene (4-BF	Έ)		0.835	mg/Kg	1	1.00	84	51.1 - 119.1

Sample: 123606 - SW-5

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 200	d. 8015B 7-05-08 7-05-08	Anal	Method: N/A yzed By: AG ared By: AG
Parameter	Fla	gr	RL Result		Units	Dilution	RL
DRO		0	<50.0		g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	151	mg/Kg	1	150	101	61.7 - 143.2

Sample: 123606 - SW-5

Analysis: TPH GRO QC Batch: 37075 Prep. Batch: 32150			Date Ana	•	S 8015B 2007-05-08		Analyze	•
Prep Batch:	32159		Sample P	reparation:	2007-05-08		Prepareo	d By: AG
			\mathbf{RL}					
Parameter	Flag		Result		Units		Dilution	\mathbf{RL}
GRO			4.36		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	\mathbf{Units}	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.785	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluor	cobenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	67.5 - 140.3

Sample: 123607 - SW-6

Analysis: BTEX QC Batch: 37074			Analytical Method: Date Analyzed:			S 8021B 2007-05-08		Prep Me Analyze	d By: AG
Prep Batch:	32159			Sample Pre	paration:	2007-05-08		Prepared	d By: AG
				RI	- _				
Parameter		Flag		Resul	t	Units		Dilution	\mathbf{RL}
Benzene				< 0.010	0	mg/Kg		1	0.0100
Toluene				< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene				< 0.010	D	mg/Kg		1	0.0100
Xylene	·····			< 0.010	0	mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.866	mg/Kg	1	1.00	87	26 - 117.8
4-Bromofluor	obenzene (4-BF	В)		0.837	mg/Kg		1.00	84	51.1 - 119.1

Sample: 123607 - SW-6

Analysis: QC Batch: Prep Batch:	TPH DRO 37068 32157		Analytical M Date Analyz Sample Prep	ed: 200	d. 8015B 7-05-08 7-05-08	Anal	Method: N/A yzed By: AG ared By: AG
			\mathbf{RL}				
Parameter	Fla	g	\mathbf{Result}		Units	Dilution	\mathbf{RL}
DRO			<50.0	m	g/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	139	mg/Kg	1	150	93	61.7 - 143.2

Sample: 123607 - SW-6

Analysis: QC Batch: Prep Batch:	tch: 37075 Date Analyz		lyzed:	S 8015B 2007-05-08 2007-05-08		Prep Me Analyzec Preparec	d By: AG	
			\mathbf{RL}					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO			3.19		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	\mathbf{Amount}	Recovery	Limits
Trifluorotolu	ene (TFT)		0.795	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluor	cobenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	67.5 - 140.3

Sample: 123608 - BH-1

Analysis: QC Batch:	BTEX 37074		Date Analyzed: 2007-05-08 A		Prep Me Analyze			
Prep Batch:	32159		Sample Pre	paration:	2007-05-08	Prepared		d By: AG
			RI	Ĺ				
Parameter	Fla	g	Resul	t	Units		Dilution	\mathbf{RL}
Benzene	·		< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	2		< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.854	mg/Kg	1	1.00	85	26 - 117.8
4-Bromofluor	obenzene (4-BFB)		0.836	mg/Kg		1.00	84	51.1 - 119.1

Sample: 123608 - BH-1

Analysis: QC Batch: Prep Batch:	Batch: 37068		Analytical Method: Date Analyzed: Sample Preparation:		od. 8015B 07-05-08 07-05-08	Anal	Method: N/A yzed By: AG ared By: AG
			\mathbf{RL}				
Parameter	Fla	ag	\mathbf{Result}		Units	Dilution	\mathbf{RL}
DRO		· · · · · · · · · · · · · · · · · · ·	<50.0	n	ng/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	109	mg/Kg	1	150	73	61.7 - 143.2

Sample: 123608 - BH-1

Analysis:TPH GROQC Batch:37075Prep Batch:32159			Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-08 2007-05-08		Prep Method: S 5 Analyzed By: AG Prepared By: AG	
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			2.88	·	mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.782	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)			1.19	mg/Kg	1	1.00	119	67.5 - 140.3

Sample: 123609 - BH-2

Analysis: QC Batch:	BTEX 37074		Date Analyzed: 20		S 8021B 2007-05-08		Prep Me Analyze	
Prep Batch:	32159		Sample Pre	paration:	2007-05-08		Prepared B	
			RI					
Parameter	Flag		Resul	t	Units		Dilution	\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene			< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ne (TFT)		0.884	mg/Kg	1	1.00	88	26 - 117.8
4-Bromofluor	obenzene (4-BFB)		0.850	mg/Kg	1	1.00	85	51.1 - 119.1

Sample: 123609 - BH-2

.

Analysis:TPH DROQC Batch:37068Prep Batch:32157		Analytical Metho Date Analyzed: Sample Preparat		ed: 20	od. 8015B 07-05-08 07-05-08	Anal	Method: N/A yzed By: AG ared By: AG
Parameter	Fla	g	RL Result		Units	Dilution	\mathbf{RL}
DRO		·o	112	I	ng/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	e	113	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123609 - BH-2

Analysis:TPH GROQC Batch:37075Prep Batch:32159		Date Analyzed:			S 8015B 2007-05-08 2007-05-08		Prep Method: S Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	Flag		\mathbf{Result}		Units		Dilution	\mathbf{RL}	
GRO			4.18		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	\mathbf{Result}	\mathbf{Units}	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		0.810	mg/Kg	1	1.00	81	52.4 - 123.7	
4-Bromofluor	4-Bromofluorobenzene (4-BFB)		1.16	m mg/Kg	1	1.00	116	67.5 - 140.3	

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Sample: 123610 - BH-3

Analysis: QC Batch:	BTEX 37074		Analytical Date Analy	zed:	S 8021B 2007-05-08		Prep Me Analyze	d By: AG
Prep Batch:	32159		Sample Pre	paration:	2007-05-08		Prepare	d By: AG
			R	L				
Parameter	$\mathbf{Fla}_{\mathbf{F}}$		Resul	t	Units		Dilution	\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	9		< 0.010	0	mg/Kg		1	0.0100
Xylene	· · · · · · · · · · · · · · · · · · ·		< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.862	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluor	obenzene (4-BFB)		0.841	mg/Kg		1.00	84	51.1 - 119.1

Sample: 123610 - BH-3

Analysis:TPH DROQC Batch:37068Prep Batch:32157			Analytical M Date Analyz Sample Prep	ed: 2	Aod. 8015B 1007-05-08 1007-05-08	Anal	Method: N/A yzed By: AG ared By: AG
Parameter	Fla	g	${ m RL} { m Result}$		Units	Dilution	\mathbf{RL}
DRO			76.4		mg/Kg	1	50.0
Surrogate	Flag	\mathbf{Result}	Units	Dilutio	Spike n Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	112	mg/Kg	1	150	75	61.7 - 143.2

Sample: 123610 - BH-3

Analysis:TPH GROQC Batch:37075Prep Batch:32159			Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-08 2007-05-08		Prep Method: S Analyzed By: AC Prepared By: AC		
Parameter	Flag		${f RL}$ Result		Units		Dilution	\mathbf{RL}	
GRO		······	2.94		mg/Kg		1	1.00	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT)		0.794	mg/Kg	1	1.00	79	52.4 - 123.7	
4-Bromofluor	robenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	67.5 - 140.3	

Sample: 123611 - BH-4

Analysis: BTEX QC Batch: 37074 Prep Batch: 32159			Analytical I Date Analy Sample Pre	zed:	S 8021B 2007-05-08 2007-05-08		Prep Met Analyzed Prepared	
-			RI	• 				v
Parameter	Flag		Resul		\mathbf{Units}		Dilution	\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene			< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.860	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4	-BFB)		0.824	mg/Kg		1.00	82	51.1 - 119.1

Sample: 123611 - BH-4

Analysis: QC Batch: Prep Batch:	atch: 37068		Analytical Method: Date Analyzed: Sample Preparation:		8015B 7-05-08 7-05-08	Anal	Method: N/A yzed By: AG ared By: AG
Parameter	Fla	g	RL Result	τ	Inits	Dilution	RL
DRO			227	mę	g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	${f Spike} {f Amount}$	Percent Recovery	Recovery Limits
n-Triacontan	e	118	mg/Kg	1	150	. 79	61.7 - 143.2

Sample: 123611 - BH-4

Analysis:TPH GROQC Batch:37075Prep Batch:32159			Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-08 2007-05-08		thod: S 5035 d By: AG d By: AG	
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO			4.12		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.789	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluor	robenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	67.5 - 140.3

Sample: 123612 - BH-5

Analysis: QC Batch:	BTEX 37116		Analytical Date Analy	zed:	S 8021B 2007-05-09		Prep Me Analyze	d By: AG
Prep Batch:	32190		Sample Pre	paration:	2007-05-09		Prepared	d By: AG
			RI					
Parameter	Flag		\mathbf{Resul}	t	Units		Dilution	\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	9		< 0.010	0	mg/Kg		1	0.0100
Xylene			0.028	9	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)	<u>~</u>	0.853	mg/Kg	1	1.00	85	26 - 117.8
4-Bromofluor	obenzene (4-BFB)		0.849	mg/Kg	1	1.00	85	51.1 - 119.1

Sample: 123612 - BH-5

Analysis: QC Batch: Prep Batch:	TPH DRO 37069 32157		Analytical M Date Analyz Sample Prep	ed:	Mod. 8015 2007-05-08 2007-05-08	3	Anal	Method: yzed By: ared By:	N/A AG AG
Parameter	Fla	σ	RL Result		Units		Dilution		\mathbf{RL}
DRO		0	<50.0		mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Diluti	on A	Spike Amount	Percent Recovery		overy nits
n-Triacontane	9	97.0	mg/Kg	1		150	65	61.7 -	143.2

Sample: 123612 - BH-5

Analysis:TPH GROQC Batch:37117Prep Batch:32190			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-09 2007-05-09		Prep Me Analyzee Preparee	d By: AG
			RL					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO	· · · · · · · · · · · · · · · · · · ·	·····	<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.808	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluor	obenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	67.5 - 140.3

,

Method	Blank ((1)	QC Batch:	37068

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

Parameter		Flag		$egin{array}{c} { m MDL} \\ { m Result} \end{array}$		Units	RL	
DRO				<13.4	mg/Kg		50	
Surrogata	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Surrogate n-Triacontane	Tiag	102	mg/Kg	1	150	68	61.7 - 143.2	

Method Blank (1) QC Batch: 37069

QC Batch: Prep Batch:	37069 32157		Date Analyzed: QC Preparation	2007-05-0 : 2007-05-0			Analyzed By: Prepared By:	
				1DL		TT A		Dr
Parameter		Flag	Re	esult		Units		RL
DRO			<	13.4		mg/Kg		50
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		v
n-Triacontan	e	176	mg/Kg	1	150	117	61.7 -	143.2

Method Blank (1) QC Batch: 37074

QC Batch: 37074 Prep Batch: 32159		Date An QC Prep	2	007-05-08 007-05-08		•	vzed By: AG ured By: AG
	ţ		M	DL			
Parameter	Flag		Res	ult	Un	its	\mathbf{RL}
Benzene			< 0.00	10	mg	′Kg	0.01
Toluene			< 0.002	150	mg	′Kg	0.01
Ethylbenzene			< 0.00	160	mg	/Kg	0.01
Xylene			< 0.004	410	mg	′Kg	0.01
_					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.837	mg/Kg	1	1.00	84	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.815	mg/Kg	1	1.00	82	53.9 - 125.1

Method Blank (1) QC Batch: 37075

QC Batch: Prep Batch:		Date Analyzed: QC Preparation:			Analyzed By: Prepared By:	
		N	ÍDL			
Parameter	Fl	g Re	sult	Units		\mathbf{RL}
GRO		<0.	.739	mg/Kg		1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.887	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	67.5 - 140.3

Method Blank (1) QC Batch: 37116

QC Batch: 37116 Prep Batch: 32190	-			2007-05-09 2007-05-09		yzed By: AG ared By: AG	
			Μ	DL			
Parameter	Flag		Res	ult	Un	its	RL
Benzene			< 0.00	110	mg	/Kg	0.01
Toluene			< 0.00	150	mg	/Kg	0.01
Ethylbenzene			< 0.00	160	mg	/Kg	0.01
Xylene			< 0.004	110	mg/Kg		0.01
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	\mathbf{Units}	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.872	mg/Kg	1	1.00	87	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.747	mg/Kg	1	1.00	75	53.9 - 125.1

Method Blank (1) QC Batch: 37117

QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	\mathbf{AG}
Prep Batch:	32190	QC Preparation:	2007-05-09	Prepared By:	AG

			MDL				
Parameter	Flag		\mathbf{Result}		Uni	ts	RL
GRO			0.872		mg/	Kg	1
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.904	mg/Kg	1	1.00	90	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.952	mg/Kg	1	1.00	95	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$37068 \\ 32157$		Date Analyzed: QC Preparation:				Analyzed By: AG Prepared By: MS		
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
DRO		264	mg/Kg	1	250	<13.4	106	62.5 - 135.4	

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

Report Date: May 10, Plains048SPL	2007		v		der: 70508 ueen State				lumber: Lea Cou	
control spikes continued	d					_				
Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param		$\begin{array}{c} { m LCSD} \\ { m Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		314	mg/Kg	1	250	<13.4	126	62.5 - 135.4	17	20
Percent recovery is base	ed on the s			based of	n the spike	and spike o	luplicate	result.		
Surrogate	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	LCSD Result		nits	Dil.	Spike Amount	LCS Rec.			Rec. Jimit
n-Triacontane	116	131		/Kg	1	150		87		- 140.9
QC Batch: 37069 Prep Batch: 32157		\mathbf{LC}	Date An QC Prep				Mat	Prep	lyzed By ared By	
Param		Resi		Units	Dil.	Amount	Res			nec. Jimit
DRO		291		g/Kg	1	250	<13			- 135.4
Param DRO		LCSD Result 308	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <13.4	Rec.	Rec. Limit 62.5 - 135.4	RPD 6	RPD Limit 20
Percent recovery is base	ed on the st									
	LCS	LCSD			i ono optico	Spike	LCS		I	Rec.
	Result	Result		nits	Dil.	Amount	Rec.			imit
Surrogate		194	ma	11/	1	180	88	83	66.6	- 140.9
-	132	124	<u></u> ,	/Kg	1	150				
1-Triacontane Laboratory Control S QC Batch: 37074		'S-1)	Date An QC Prep	alyzed:	2007-05	-08 -08		Prep	lyzed By pared By I	: AG
n-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159		2 S-1) LCS Resul	Date An QC Prep t Ur	alyzed:	2007-05 a: 2007-05	-08	Matr Resu	Prep	ared By	
n-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene		2 S-1) LCS Resul 0.938	Date An QC Prep t Ur 3 mg	alyzed: paration nits ;/Kg	2007-05 1: 2007-05 Dil. 1	-08 -08 Spike Amount 1.00	Matr Resu <0.00	Prep ix <u>lt Rec.</u> 110 94	ared By I <u>L</u> 68.6	: AG Rec. .imit - 123.4
n-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene		2 S-1) LCS Resul 0.938 0.954	Date An QC Prep t Un 3 mg 4 mg	alyzed: paration nits /Kg :/Kg	2007-05 1: 2007-05 Dil. 1 1	-08 -08 Amount 1.00 1.00	Matr Resu <0.00 <0.00	Prep ix lt Rec. 110 94 150 95	I 1 68.6 74.6	: AG Rec. imit - 123.4 - 119.3
I-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene Ethylbenzene		LCS Resul 0.938 0.954 0.947	Date An QC Prep t Ur 3 mg 4 mg 7 mg	alyzed: paration nits /Kg /Kg /Kg	2007-05 1: 2007-05 Dil. 1 1 1	-08 -08 <u>Amount</u> 1.00 1.00 1.00	Matr Resu <0.00 <0.00 <0.00	Prep ix lt Rec. 110 94 150 95 160 95	Example 1 For the second secon	: AG Rec. imit - 123.4 - 119.3 - 126.2
	Spike (LC	LCS Resul 0.938 0.954 0.947 2.87	Date An QC Prep t Ur 3 mg 4 mg 7 mg mg	alyzed: paration /Kg /Kg /Kg /Kg	2007-05 1: 2007-05 Dil. 1 1 1 1 1	-08 -08 <u>Spike</u> <u>Amount</u> 1.00 1.00 3.00	Matr Resu <0.00 <0.00 <0.00 <0.00	Prep ix <u>lt Rec.</u> 110 94 150 95 160 95 410 96	Example 1 For the second secon	: AG Rec. imit - 123.4 - 119.3 - 126.2
n-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene Sthylbenzene Kylene	Spike (LC	LCS Resul 0.938 0.954 0.947 2.87	Date An QC Prep t Ur 3 mg 4 mg 7 mg mg	alyzed: paration /Kg /Kg /Kg /Kg	2007-05 1: 2007-05 Dil. 1 1 1 1 1	-08 -08 <u>Spike</u> <u>Amount</u> 1.00 1.00 3.00	Matr Resu <0.00 <0.00 <0.00 <0.00	Prep ix <u>lt Rec.</u> 110 94 150 95 160 95 410 96	Example 1 For the second secon	: AG Rec. imit - 123.4 - 119.3 - 126.2 - 121.6
A-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is base Param	Spike (LC	LCS Resul 0.938 0.954 0.947 2.87 bike result. LCSD Result	Date An QC Prep t Ur 3 mg 4 mg 7 mg mg	alyzed: paration /Kg /Kg /Kg /Kg	2007-05 1: 2007-05 Dil. 1 1 1 1 1 1 1	-08 -08 <u>Amount</u> 1.00 1.00 1.00 3.00 and spike d	Matr Resu <0.00 <0.00 <0.00 <0.00	Prep ix <u>lt Rec.</u> 110 94 150 95 160 95 410 96 result.	Example 1 For the second secon	: AG Rec. imit - 123.4 - 119.3 - 126.2 - 121.6 RPD
n-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is base Param Benzene	Spike (LC	LCS Resul 0.938 0.954 2.87 Dike result. LCSD Result 0.955	Date An QC Prep t Un 3 mg 7 mg 7 mg RPD is b Units mg/Kg	alyzed: paration /Kg /Kg /Kg /Kg pased or Dil. 1	2007-05- 2007-05- Dil. 1 1 1 1 1 1 1 1 1 1 1 1 1	-08 -08 Amount 1.00 1.00 3.00 and spike d Matrix Result <0.00110	Matr Resu <0.00 <0.00 <0.00 uplicate Rec. 96	Prep ix lt Rec. 110 94 150 95 160 95 410 96 result. Rec. Limit 68.6 - 123.4	Pared By I 68.6 74.6 72.3 76.5 RPD 2	: AG Rec. imit - 123.4 - 119.3 - 126.2 - 121.6 RPD Limit 20
A-Triacontane Laboratory Control S QC Batch: 37074 Prep Batch: 32159 Param Benzene Foluene Ethylbenzene Kylene Percent recovery is base Param	Spike (LC	LCS Resul 0.938 0.954 0.947 2.87 5ike result. LCSD Result 0.955 0.956	Date An QC Prep t Un 3 mg mg RPD is b Units	alyzed: paration //Kg //Kg //Kg //Kg pased or Dil.	2007-05 2007-05 Dil. 1 1 1 1 1 1 1 1 1 Spike Amount	-08 -08 Amount 1.00 1.00 3.00 and spike d Matrix Result	Matr Resu <0.00 <0.00 <0.00 uplicate Rec.	Prep ix lt Rec. 110 94 150 95 160 95 410 96 result. Rec. Limit	Pared By I 68.6 74.6 72.3 76.5 RPD	: AG Rec. imit - 123.4 - 119.3 - 126.2 - 121.6 RPD Limit

64.1 - 118.2

68.7 - 125.8

78

80

78 79

control spikes continued ...

Param	$\begin{array}{c} \mathbf{LCSD} \\ \mathbf{Result} \end{array}$	Units	Dil.	Spike Amount	Matri: Result			Rec. imit	RPD	RPD Limit
Xylene	2.87	mg/Kg	1	3.00	< 0.004			- 121.6	$\frac{10D}{0}$	20
Percent recovery is ba	ased on the spike result	. RPD is	based	on the spik	e and spik	e duplica	te resul	t.		
	\mathbf{LC}	S LC	SD			Spike	LCS	LCSD]	Rec.
Surrogate	Resu			Units		mount	Rec.	Rec.	Ι	imit

1

1

1.00

1.00

Trifluorotoluene (TFT)	0.777	0.776	mg/Kg
4-Bromofluorobenzene (4-BFB)	0.793	0.798	mg/Kg
			0, 0

Laboratory Control Spike (LCS-1)

QC Batch:	37075	Date Analyzed:	2007-05-08	Analyzed By:	\mathbf{AG}
Prep Batch:	32159	QC Preparation:	2007-05-08	Prepared By:	AG

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

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

	LCSD			Spike	Matrix		Rec.		\mathbf{RPD}
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	8.34	mg/Kg	1	10.0	< 0.739	83	57.7 - 102.5	5	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{Result}	\mathbf{Result}	\mathbf{Units}	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.18	1.20	mg/Kg	1	1.00	118	120	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.00	1.01	mg/Kg	1	1.00	100	101	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:	37116	Date Analyzed:	2007-05-09	Analyzed By:	AG
Prep Batch:	32190	QC Preparation:	2007-05-09	Prepared By:	\mathbf{AG}

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	\mathbf{Limit}
Benzene	0.923	mg/Kg	1	1.00	< 0.00110	92	68.6 - 123.4	2	20
Toluene	0.932	mg/Kg	1	1.00	< 0.00150	93	74.6 - 119.3	2	20
Ethylbenzene	0.922	mg/Kg	1	1.00	< 0.00160	92	72.3 - 126.2	2	20
Xylene	2.79	mg/Kg	1	3.00	< 0.00410	93	76.5 - 121.6	2	20

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

	2007			Order: 7050 Queen Stat					Page Nu	umber: .ea Cour	
Surrogate		LCS Result	LCSD Result	Units	Dil.	Spil Amo	unt	LCS Rec.	LCSD Rec.	\mathbf{L}	Rec
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4	1-BFB)	$0.766 \\ 0.776$	0.769 0.770	mg/Kg mg/Kg	1 1	1.0 1.0		77 78	77 77	64.1 68.7	
Laboratory Control S QC Batch: 37117 Prep Batch: 32190	opike (LCS	D	ate Analyzeo C Preparatio							yzed By ared By	
Param		$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	-	pike 10unt		trix sult	Rec.		Reo
GRO		8.35	mg/Kg	1		0.0	<0	.739	84	57.7	
Percent recovery is based Param GRO Percent recovery is based		LCSD Result U 7.21 m	Jnits Dil. g/Kg 1	Spike Amoun 10.0	Ma nt Re <0	atrix esult).739	Rec.	H L 57.7	Rec. imit - 102.5	RPD 15]
Surrogate		LCS Result	LCSD Result 0.814	Units mg/Kg	Dil.	Spil Amo 1.0	unt	LCS Rec. 119	LCSD Rec. 81		Rec .im - 1
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4 Matrix Spike (MS-1)		1.19 1.01	1.00	mg/Kg	1	1.0		101	100	70	
		1.01 Sample: 1236 D	1.00	mg/Kg l: 2007-	<u>1</u> 05-08				100 Anal:		<u>- 1</u>
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157		1.01 Sample: 1236 D Q MS	1.00 03 ate Analyzed C Preparatio	mg/Kg d: 2007-0 on: 2007-0	1 05-08 05-08 S _F	1.0	0 Ma	101 trix	100 Analy Prepa	70 yzed By ared By H	- 1 :: :Rec
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068		1.01 Sample: 1236 Q	1.00 03 ate Analyzec C Preparatio Units	mg/Kg l: 2007-	1 05-08 05-08 Sp Am	1.0	0 Ma Rea	101 trix sult	100 Anal:	70 yzed By ared By H L	- 1 : : Rec
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param	Spiked S	1.01 Sample: 1236 D. Q MS Result 383	1.00 03 ate Analyzec C Preparatic Units mg/Kg	mg/Kg d: 2007 on: 2007 Dil. 1	1 05-08 05-08 Sp Am 2	1.0 pike jount 50	0 Ma Rer <1	trix sult 3.4	100 Analy Prepa Rec. 153	70 yzed By ared By H	: : Rec
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO	Spiked S	1.01 Sample: 1236 D. Q MS Result 383 ke result. RI MSD	1.00 03 ate Analyzec C Preparatic Units mg/Kg	mg/Kg d: 2007 on: 2007 Dil. 1	1 05-08 05-08 Sp Am 2 se and s wa	1.0 pike jount 50 spike du	0 Ma Rer <1	101 trix sult 3.4 e resul	100 Analy Prepa Rec. 153	70 yzed By ared By H L	- 1 : : Rec
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO Percent recovery is based	Spiked S	1.01 Sample: 1236 D. Q MS Result 383 ke result. RI MSD Result U	1.00 03 ate Analyzed C Preparatio Units mg/Kg PD is based of	mg/Kg d: 2007 on: 2007 Dil. 1 on the spik Spike	1 05-08 05-08 Sp Am 2 se and s se and s t Re	1.0 pike jount 50 spike du	0 Ma Rer <1 uplicat	101 trix sult 3.4 e resul E	100 Analy Prepa Rec. 153 t. Rec.	70 yzed By ared By H L 29.7	- : : : :
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO Percent recovery is based Param	Spiked S	1.01 Sample: 1236 Q MS Result 383 ke result. RI MSD Result U 361 ma	1.00 03 ate Analyzed C Preparatio Units mg/Kg PD is based of nits Dil. g/Kg 1	mg/Kg d: 2007 on: 2007 Dil. 1 on the spik Spike Amoun 250	$\frac{1}{05-08}$ $05-08$ $Sr Am$ $\frac{2}{2}$ se and s Ma $t Re$ <1	1.0 pike ount 50 spike du atrix esult 13.4	Ma Rec <1 uplicato Rec. 144	101 trix sult 3.4 e resul E 29.7	100 Analy Preps Rec. 153 t. Rec. imit - 168.6	70 yzed By ared By H L 29.7 RPD	- : : : :
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO Percent recovery is based Param DRO Percent recovery is based	Spiked S	1.01 Sample: 1236 Q MS Result 383 ke result. RI <u>MSD</u> Result U 361 ma ke result. RI MSD	1.00 03 ate Analyzed C Preparatio Units mg/Kg PD is based of nits Dil. g/Kg 1 PD is based of	mg/Kg d: 2007 on: 2007 Dil. 1 on the spik Amoun 250 on the spik	$\frac{1}{05-08}$ $05-08$ S_{F} Am $\frac{2}{2}$ se and s Ma t Re <1 $se and s$ S_{F}	1.0 pike ount 50 spike du atrix esult 13.4 spike du pike	Ma Rec <1 uplicat Rec. 144 uplicat	101 trix sult 3.4 e resul E 29.7 e resul S	100 Analy Prepa Rec. 153 t. Rec. imit - 168.6 t. MSD	70 yzed By ared By H L 29.7 RPD 6	- : Rec
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO Percent recovery is based Param DRO	Spiked S	1.01 Sample: 1236 Q MS Result 383 ke result. RI MSD Result U 361 ma	1.00 03 ate Analyzed C Preparatio Units mg/Kg PD is based of nits Dil. g/Kg 1	mg/Kg d: 2007 on: 2007 Dil. 1 on the spik Spike Amoun 250	$\frac{1}{05-08}$ $05-08$ $Sr Am$ $\frac{2}{2}$ se and s Ma $t Re$ <1	1.0 pike ount 50 spike du atrix esult 13.4	Ma Rec <1 uplicato Rec. 144	101 trix sult 3.4 e resul E 29.7	100 Analy Preps Rec. 153 t. Rec. imit - 168.6	70 yzed By ared By H L 29.7 RPD	
4-Bromofluorobenzene (4 Matrix Spike (MS-1) QC Batch: 37068 Prep Batch: 32157 Param DRO Percent recovery is based Param DRO	Spiked S	1.01 Sample: 1236 Q MS Result 383 ke result. RI MSD Result U 361 mg ke result. RI	1.00 03 ate Analyzed C Preparatio Units mg/Kg PD is based of nits Dil. g/Kg 1	mg/Kg d: 2007 on: 2007 Dil. 1 on the spik Spike Amoun 250	$\frac{1}{05-08}$ $\frac{05-08}{05-08}$ $\frac{Sr}{Am}$ $\frac{2}{2}$ se and s $\frac{Ma}{s}$ $\frac{1}{se and s}$ $\frac{Sr}{Am}$	1.0 bike count 50 spike du atrix esult 13.4 spike du	Ma Rec <1 uplicat uplicat	101 trix sult 3.4 e resul E 29.7 e resul S c.	100 Analy Prepa Rec. 153 t. Rec. imit - 168.6 t.	70 yzed By ared By H L 29.7 RPD 6	

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		MS				Spike	Ma	trix			Rec.
Param		Resu	lt (Jnits	Dil.	Amount	Res	sult	Rec.	I	limit
DRO		173	m	lg/Kg	1	250	<1	3.4	69	29.7	- 168.6
Percent recovery is	based on the sp	ike result.	RPD is	based o	n the spike	and spike o	duplicate	e result.			
		MSD			Spike	Matrix		Re	c.		RPD
Param		Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Lin	nit	RPD	Limit
DRO		211	mg/Kg	1	250	<13.4	84	29.7 -	168.6	20	20
Percent recovery is	based on the sp	ike result.	RPD is	based of	n the spike	and spike o	duplicate	e result.			
	MS	MSD				Spike	M	S I	MSD		Rec.
Surrogate	Result	Result	U	\mathbf{nits}	Dil.	$\mathbf{A}\mathbf{m}\mathbf{o}\mathbf{u}\mathbf{n}\mathbf{t}$	Re	с.	Rec.	1	imit

150

57

56

43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 123611

85.5

83.7

n-Triacontane

QC Batch:	37074	Date Analyzed:	2007-05-08	Analyzed By:	\mathbf{AG}
Prep Batch:	32159	QC Preparation:	2007-05-08	Prepared By:	\mathbf{AG}

mg/Kg

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit
Benzene	0.865	mg/Kg	1	1.00	< 0.00110	86	64.4 - 115.7
Toluene	0.898	mg/Kg	1	1.00	< 0.00150	90	57.8 - 124.4
Ethylbenzene	0.906	mg/Kg	1	1.00	< 0.00160	91	64.8 - 125.8
Xylene	2.74	mg/Kg	1	3.00	< 0.00410	91	65.2 - 121.8

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Benzene	0.889	mg/Kg	1	1.00	< 0.00110	89	64.4 - 115.7	3	20
Toluene	0.927	mg/Kg	1	1.00	< 0.00150	93	57.8 - 124.4	3	20
Ethylbenzene	0.952	mg/Kg	1	1.00	< 0.00160	95	64.8 - 125.8	5	20
Xylene	2.89	mg/Kg	1	3.00	< 0.00410	96	65.2 - 121.8	5	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.770	0.755	mg/Kg	1	1	77	76	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.802	0.806	mg/Kg	1	1	80	81	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 123611

QC Batch: Prep Batch:	Date Analyzed: QC Preparation:	Analyzed By: Prepared By:	

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	9.08	mg/Kg	1	10.0	4.12	50	10 - 141.5

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

Param	$egin{array}{c} { m MSD} \\ { m Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			<u></u>					<u></u>	
GRO	9.70	mg/Kg	1	10.0	4.12	56	10 - 141.5	(20

	MS	MSD			\mathbf{Spike}	MS	MSD	$\operatorname{Rec.}$
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.661	0.673	mg/Kg	1	1	66	67	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.17	1.15	m mg/Kg	1	1	117	115	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 123612

QC Batch:	37116	Date Analyzed:	2007-05-09	Analyzed By:	\mathbf{AG}
Prep Batch:	32190	QC Preparation:	2007-05-09	Prepared By:	\mathbf{AG}

Param	${f MS}$ Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.901	mg/Kg	1	1.00	< 0.00110	90	64.4 - 115.7
Toluene	0.939	mg/Kg	1	1.00	< 0.00150	94	57.8 - 124.4
Ethylbenzene	0.954	mg/Kg	1	1.00	< 0.00160	95	64.8 - 125.8
Xylene	2.89	mg/Kg	1	3.00	0.0289	95	65.2 - 121.8

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
Benzene	0.893	mg/Kg	1	1.00	< 0.00110	89	64.4 - 115.7	1	20
Toluene	0.935	mg/Kg	1	1.00	< 0.00150	94	57.8 - 124.4	0	20
Ethylbenzene	0.950	mg/Kg	1	1.00	< 0.00160	95	64.8 - 125.8	0	20
Xylene	2.88	mg/Kg	1	3.00	0.0289	95	65.2 - 121.8	0	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	\mathbf{Limit}
Trifluorotoluene (TFT)	0.766	0.767	mg/Kg	1	1	77	77	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.807	0.793	mg/Kg	1	1	81	79	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 123612

QC Batch:	37117	Date Analyzed:	2007-05-09	Analyzed By:	\mathbf{AG}
Prep Batch:	32190	QC Preparation:	2007-05-09	Prepared By:	\mathbf{AG}

MS			Spike	Matrix		Rec.
\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
6.36	mg/Kg	1	10.0	0.9561	54	10 - 141.5
	Result	Result Units	ResultUnitsDil.6.36mg/Kg1	Result Units Dil. Amount	ResultUnitsDil.AmountResult6.36mg/Kg110.00.9561	ResultUnitsDil.AmountResultRec.6.36mg/Kg110.00.956154

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

-	MSD			Spike	Matrix	_	Rec.		RPD
Param	Result	Units	Dil.	\mathbf{Amount}	Result	Rec.	Limit	RPD	Limit
GRO	6.54	mg/Kg	1	10.0	0.9561	56	10 - 141.5	3	20

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

Plains0488	SPL			EK	Queen Stat	e	·		Le	ea County, N
_			MS	MSD			Spike	MS	MSD	Rec.
Surrogate			Result	Result	Units	Dil.	Amount	Rec.	Rec. 70	Limit 40 - 125.3
	luene (TFT) iorobenzene (4	-BFB)	0.709 1.08	$\begin{array}{r} 0.702 \\ 1.08 \end{array}$	mg/Kg mg/Kg	1 1	1 1	$71\\108$	108	40 - 125.3 86.7 - 144.
										M.,
Standard	(CCV-1)									
QC Batch:	37068		Dat	e Analyz	ed: 2007-0	5-08			Analy	zed By: AG
			CCV		CCVs		CVs	Perce		
			Tru		Found		ercent	Recov		Date
Param	Flag	Units	Cone		Conc.		covery	Limi		Analyzed
DRO		mg/Kg	250		287		115	85 - 1	115	2007-05-0
Standard	(CCV-2)									
QC Batch:	37068		Dat	e Analyz	ed: 2007-0	5-08			Analy	zed By: AG
			CCV	s	CCVs	С	CVs	Perce	ent	
			True	9	Found	Pe	ercent	Recov	very	Date
			Cond		Conc.		covery	Limi		Analyzec
	Flag	Units	Cone							
DRO Standard	(CCV-3)	Units mg/Kg	250		220 ed: 2007-03		88	85 - 1		2007-05-0 zed By: AG
DRO Standard QC Batch:	(CCV-3) 37068	mg/Kg	250 Dat CCV True	e Analyz s	ed: 2007-0 CCVs Found	5-08 C Pe	CVs rcent	Perce Recov	Analy ent ery	zed By: AG Date
DRO Standard QC Batch: Param	(CCV-3)		250 Dat CCV	e Analyz s e	ed: 2007-0	5-08 C Pe Rec	CVs	Perce	Analy ent ery its	zed By: AG
DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1)	mg/Kg Units	250 Dat CCV True Conc 250	e Analyz s e	ed: 2007-0 CCVs Found Conc. 234	5-08 C Pe Rec	CVs rcent covery	Perce Recov Limi	Analy ent rery its 115	zed By: AG Date Analyzed 2007-05-0
Param DRO Standard QC Batch: Param DRO Standard QC Batch:	(CCV-3) 37068 Flag (ICV-1)	mg/Kg Units	250 Dat CCV True Conc 250 Dat	e Analyz s e e e Analyz	ed: 2007-0; CCVs Found Conc. 234 ed: 2007-0;	5-08 C Pe Rec 5-08	CVs rcent covery 94	Perce Recov Limi 85 - 1	Analy ent rery its 115 Analy	zed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1)	mg/Kg Units	250 Dat CCV True Conc 250 Dat	e Analyz s e. e Analyz	ed: 2007-03 CCVs Found Conc. 234 ed: 2007-03 ICVs	5-08 Pe Rec 5-08	CVs rcent covery 94 CVs	Perce Recov Limi 85 - 1	Analy ent rery its 115 Analy ent	zed By: AG Date Analyzed 2007-05-0 zed By: AG
DRO Standard QC Batch: Param DRO Standard QC Batch:	(CCV-3) 37068 Flag (ICV-1) 37069	mg/Kg Units mg/Kg	250 Dat CCV True Conc 250 Dat ICV: True	e Analyz s e e Analyz	ed: 2007-03 CCVs Found Conc. 234 ed: 2007-03 ICVs Found	5-08 Pe Rec 5-08 IC Pe	CVs rcent covery 94 CVs rcent	Perce Recov Limi 85 - 1 Perce Recov	Analy ent ery its 115 Analy ent ery	zed By: AG Date Analyzec 2007-05-0 zed By: AG Date
DRO Standard QC Batch: Param DRO Standard QC Batch: Param	(CCV-3) 37068 Flag (ICV-1)	mg/Kg Units	250 Dat CCV True Conc 250 Dat	e Analyz s e e Analyz	ed: 2007-03 CCVs Found Conc. 234 ed: 2007-03 ICVs	5-08 Pe Rec 5-08 IC Pe Rec	CVs rcent covery 94 CVs	Perce Recov Limi 85 - 1	Analy ent ery its 115 Analy ent ery ts	zed By: AG Date Analyzed 2007-05-0 zed By: AG
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO	(CCV-3) 37068 Flag (ICV-1) 37069 Flag	mg/Kg Units mg/Kg Units	Dat CCV True Conc 250 Dat ICV: True Conc	e Analyz s e e Analyz	ed: 2007-03 CCVs Found Conc. 234 ed: 2007-03 ICVs Found Conc.	5-08 Pe Rec 5-08 IC Pe Rec	CVs rcent 20very 94 CVs rcent 20very	Perce Recov Limi 85 - 1 Perce Recov Limi	Analy ent ery its 115 Analy ent ery ts	zed By: AG Date Analyzed 2007-05-0 zed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1) 37069 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Dat CCV True Conc 250 Dat ICV: True Conc 250	e Analyz s e Analyz s e.	ed: 2007-03 CCVs Found Conc. 234 ed: 2007-03 ICVs Found Conc.	5-08 Pe Rec 5-08 IC Pe Rec	CVs rcent 20very 94 CVs rcent 20very	Perce Recov Limi 85 - 1 Perce Recov Limi	Analy ent rery its 115 Analy ent rery ts 115	zed By: AG Date Analyzed 2007-05-0 zed By: AG Date Analyzed
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1) 37069 Flag (CCV-1)	mg/Kg Units mg/Kg Units	250 Dat CCV True Conc 250 Dat ICV: True Conc 250	e Analyz e Analyz e Analyz e Analyz	ed: 2007-0; CCVs Found Conc. 234 ed: 2007-0; ICVs Found Conc. 248	5-08 C Pe Rec 5-08 IC Pe Rec 5-08	CVs rcent 20very 94 CVs rcent 20very	Perce Recov Limi 85 - 1 Perce Recov Limi	Analy ent rery its 115 Analy ent rery ts 115 Analy	zed By: AG Date Analyzec 2007-05-0 zed By: AG Date Analyzec 2007-05-0
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1) 37069 Flag (CCV-1)	Units mg/Kg Units mg/Kg	250 Dat CCV True Conc 250 Dat ICV: True Conc 250 Dat	e Analyz e Analyz e Analyz e Analyz s	ed: 2007-0; CCVs Found Conc. 234 ed: 2007-0; ICVs Found Conc. 248 ed: 2007-0;	5-08 C Pe Rec 5-08 I(Pe Rec 5-08	CVs rcent covery 94 CVs rcent covery 99	Perce Recov Limi 85 - 1 Perce Recov Limi 85 - 1	Analy ent rery tts 115 Analy ent rery ts 115 Analy ent	zed By: AG Date Analyzec 2007-05-0 zed By: AG Date Analyzec 2007-05-0
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard	(CCV-3) 37068 Flag (ICV-1) 37069 Flag (CCV-1)	mg/Kg Units mg/Kg Units	Dat CCV True Cond 250 Dat ICV: True Cond 250 Dat	e Analyz s e Analyz e Analyz e Analyz s 	ed: 2007-0; CCVs Found Conc. 234 ed: 2007-0; ICVs Found Conc. 248 ed: 2007-0; CCVs	5-08 C Pe Rec 5-08 IC Pe Rec 5-08 C Pe	CVs rcent covery 94 CVs rcent covery 99	Perce Recov Limi 85 - 1 Perce Recov Limi 85 - 1	Analy ent ery ts 115 Analy ent ery ts 115 Analy ent ery ts	zed By: AG Date Analyzed 2007-05-0 zed By: AG Date Analyzed 2007-05-0 zed By: AG

Standard (ICV-1)

QC Batch: 37074			Date Analyz	ed: 2007-05-0	Analyzed By: AG		
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0920	92	85 - 115	2007-05-08
Toluene		mg/Kg	0.100	0.0936	94	85 - 115	2007 - 05 - 08
Ethylbenzene		mg/Kg	0.100	0.0934	93	85 - 115	2007-05-08
Xylene		mg/Kg	0.300	0.284	95	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37	074		Date Analyzed: 2007-05-08			Analyzed By: AG		
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed	
Benzene		mg/Kg	0.100	0.0969	97	85 - 115	2007-05-08	
Toluene	,	mg/Kg	0.100	0.0979	98	85 - 115	2007-05-08	
Ethylbenzene		mg/Kg	0.100	0.0954	95	85 - 115	2007-05-08	
Xylene		mg/Kg	0.300	0.289	96	85 - 115	2007-05-08	

Standard (ICV-1)

QC Batch:	37075		Date Ana	alyzed: 2007-0	Analyzed By: AG		
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.908	91	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch:	: 37075		Date Ana	alyzed: 2007-0	Analyzed By: AG		
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.968	97	85 - 115	2007-05-08

Standard (ICV-1)

.

QC Batch: 37	116		Date Analyzed	: 2007-05-0)9	Anal	yzed By: AG
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0903	90	85 - 115	2007-05-09
Toluene		mg/Kg	0.100	0.0919	92	85 - 115	2007-05-09

continued ...

standard continued ...

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

Standard (CCV-1)

QC Batch: 37	116		Date Analyze	d: 2007-05-0	9	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0913	91	85 - 115	2007-05-09
Toluene		mg/Kg	0.100	0.0919	92	85 - 115	2007 - 05 - 09
Ethylbenzene		mg/Kg	0.100	0.0906	91	85 - 115	2007-05-09
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2007-05-09

Standard (ICV-1)

QC Batch:	37117		Date Ana	alyzed: 2007-0	Analyzed By: AG		
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2007-05-09

Standard (CCV-1)

QC Batch:	37117		Date Ana	alyzed: 2007-0	5-09	Anal	yzed By: AG
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.00	100	85 - 115	2007-05-09

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6701 Aberdeen Avenue, Surte 9 200 East Sunset Road, Suite È 5002 Basin Street, Suite A1 · 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 E-Mail lab@traceanalysis.com

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Analytical and Quality Control Report

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

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

Report Date: May 18, 2007

Work Order: 7051418

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
124019	BH-4A	soil	2007-05-12	09:00	2007-05-14

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

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

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

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

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

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

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

Analytical Report

QC Batch: 3'	TEX 7202		Analytical M Date Analyz	zed:	S 8021B 2007-05-14		Prep Me Analyze Branana	d By: AG
Prep Batch: 32	2266		Sample Prep	paration:			Prepareo	a by: AG
			RI	L				
Parameter	\mathbf{F} lag		Result	t	Units		Dilution	R
Benzene			< 0.0100)	mg/Kg		1	0.010
Toluene			< 0.0100)	mg/Kg		1	0.010
Ethylbenzene			< 0.0100)	mg/Kg		1	0.010
Xylene			< 0.0100)	mg/Kg		1	0.010
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	: (TFT)		0.808	mg/Kg	1	1.00	81	26 - 117.8
4-Bromofluorob			0.855	mg/Kg	1	1.00	86	51.1 - 119
Sample: 1240			4 1	1 1 4 1 1 1	M 1 001	7 D	D . 1	Method: N/
			Analytica	l Method:	Mod. 801	9 B	Prep	Viethod N/
v	PH DRO		•	1 1			1	1
QC Batch: 3	7288		Date Ana	•	2007-05-14		Analy	zed By: AG
QC Batch: 3			Date Ana	lyzed: reparation	2007-05-14		Analy	1
QC Batch: 3	7288		Date Ana	•	2007-05-14		Analy	zed By: AG
QC Batch: 3	7288 2278		Date Ana Sample P	•	2007-05-14		Analy	zed By: AG
QC Batch: 3 Prep Batch: 3	7288		Date Ana Sample P RL	•	2007-05-14 2007-05-14		Analy: Prepa	zed By: AG red By: MS
QC Batch: 3 Prep Batch: 3 Parameter	7288 2278		Date Ana Sample P RL Result	•	2007-05-14 1: 2007-05-14 Units	4	Analy: Prepar Dilution 1	zed By: AG red By: MS R 50
QC Batch: 3 Prep Batch: 3 Parameter	7288 2278	Result	Date Ana Sample P RL Result	reparation	2007-05-14 1: 2007-05-14 Units		Analy: Prepar Dilution	zed By: AG red By: MS R

Sample: 124019 - BH-4A

1

Analysis: QC Batch: Prep Batch:	TPH GRO 37203 32266		Date Ana	l Method: lyzed: reparation:	S 8015B 2007-05-14		Prep Me Analyzec Preparec	l By: AG
			RL					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units		Dilution	\mathbf{RL}
GRO			3.85		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.786	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluor	robenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	67.5 - 140.3

Sample: 124019 - BH-4A

Method Blank (1) QC Batch: 37202 37202 Date Analyzed: 2007-05-14 Analyzed By: AG QC Batch: QC Preparation: 2007-05-14 Prepared By: AG Prep Batch: 32266MDL Units \mathbf{RL} Flag Result Parameter mg/Kg 0.01 Benzene < 0.00110 0.01< 0.00150 mg/Kg Toluene 0.01Ethylbenzene < 0.00160mg/Kg < 0.00410 mg/Kg 0.01Xylene Spike Percent Recovery Flag Limits Surrogate Result Units Dilution Amount Recovery 62.6 - 117.6 Trifluorotoluene (TFT) 0.804 mg/Kg 1.0080 1 1.0053.9 - 125.1 4-Bromofluorobenzene (4-BFB) 0.754mg/Kg 1 75Method Blank (1) QC Batch: 37203 QC Batch: 37203 Date Analyzed: 2007-05-14 Analyzed By: AG QC Preparation: 2007-05-14 Prepared By: AG Prep Batch: 32266 MDL Units \mathbf{RL} Parameter Flag Result < 0.739mg/Kg 1 GRO Spike Percent Recovery Dilution Limits Flag Units Amount Recovery Surrogate Result Trifluorotoluene (TFT) 89 52.4 - 123.7 0.888 mg/Kg 1 1.004-Bromofluorobenzene (4-BFB) 0.969 mg/Kg 1 1.0097 67.5 - 140.3 Method Blank (1) QC Batch: 37288 QC Batch: Date Analyzed: Analyzed By: AG 37288 2007-05-14 Prep Batch: 32278QC Preparation: 2007-05-14 Prepared By: MS MDL Parameter Flag Result Units RLDRO <14.6 mg/Kg 50 Spike Percent Recovery Dilution Surrogate Flag Result Units Amount Recovery Limits n-Triacontane 174mg/Kg 116 44.7 - 133.6 1501

Laboratory Control Spike (LCS-1)

QC Batch:	37202	Date Analyzed:	2007-05-14	Analyzed By:	\mathbf{AG}
Prep Batch:	32266	QC Preparation:	2007-05-14	Prepared By:	AG

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
Benzene	0.916	mg/Kg	1	1.00	< 0.00110	92	68.6 - 123.4	2	20
Toluene	0.933	mg/Kg	1	1.00	< 0.00150	93	74.6 - 119.3	2	20
Ethylbenzene	0.944	mg/Kg	1	1.00	< 0.00160	94	72.3 - 126.2	2	20
Xylene	2.87	mg/Kg	1	3.00	< 0.00410	96	76.5 - 121.6	2	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.746	0.709	mg/Kg	1	1.00	75	71	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.816	0.821	mg/Kg	1	1.00	82	82	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch:	37203	Date Analyzed:	2007-05-14	Analyzed By:	AG
Prep Batch:	32266	QC Preparation:	2007-05-14	Prepared By:	\mathbf{AG}

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	8.25	mg/Kg	1	10.0	< 0.739	82	57.7 - 102.5	1	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.12	1.17	mg/Kg	1	1.00	112	117	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	1.06	1.06	mg/Kg	1	1.00	106	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	37288 32278		e Analyzed: Preparation:	2007-0 2007-0				vzed By: AG ared By: MS
D		LCS	TT 1.	T 11	Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	$\operatorname{Rec.}$	Limit
DRO		221	mg/Kg	1	250	<14.6	88	47.5 - 144.1

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

Report Date: May 18, 200 Plains048SPL	17				Page Number: 6 of 8 Lea County, NM						
Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result			Rec. Limit	RPD	RPD Limit
DRO		192	mg/Kg		250	<14.6			5 - 144.1	14	20
Percent recovery is based o	n the s										
ercent recovery is based of	-	-		b Dabeu (on one spine	, and spike					
	LCS	LCSE				Spike		\mathbb{CS}	LCSD		Rec.
	Result	Resul		Units	Dil.	Amount		ec.	Rec.		imit
n-Triacontane	174	179	n	ng/Kg	1	150	1	16	119	57.3	- 131.
Matrix Spike (MS-1)	Spiked	Sample: 1	23929								
QC Batch: 37202			Date A	Analyzed	: 2007-0	5-14			Anal	yzed By	·: AG
Prep Batch: 32266				eparatic						ared By	
•			•	•					-	v	
		MS				Spike	Ma	atrix		J	Rec.
Param		Resu		Units	Dil.	Amount		esult	Rec.		imit
Benzene		0.92	0 n	ng/Kg	1	1.00	<0.	00110	92	64.4	- 115.
Toluene		0.94		ng/Kg	1	1.00	< 0.	00150	95	57.8	- 124.
Ethylbenzene		0.96		ng/Kg	1	1.00		00160	97		- 125.
Xylene		2.94	1n	ng/Kg_	1	3.00	<0.	00410	98	65.2	- 121.
Percent recovery is based o	on the sp	pike result.	RPD is	s based o	on the spike	e and spike	e duplica	ite resu	ılt.		
		MSD			Spike	Matrix			Rec.		RPI
Param		Result	Units	Dil.	Amount	Result	Rec		Limit	RPD	Limi
Benzene		0.915	mg/Kg	1	1.00	< 0.0011	0 92	64.	4 - 115.7	0	$\overline{20}$
Toluene		0.952	mg/Kg	1	1.00	< 0.0015	0 95	57.	8 - 124.4	0	20
Ethylbenzene		0.987	mg/Kg	1	1.00	< 0.0016	0 99	64.	8 - 125.8	2	20
Xylene	_	3.01	mg/Kg	1	3.00	< 0.0041	0 100	65.	2 - 121.8	2	20
Percent recovery is based o	on the s	pike result.	RPD is	s based o	on the spike	e and spike	e duplica	te resu	ılt.		
		MS	s r	1SD			Spike	MS	MSD	1	Rec.
Surrogate		Resi		esult	Units		.mount	Rec			imit
Trifluorotoluene (TFT)		0.72		.733	mg/Kg	1	1	72	73		- 121.
4-Bromofluorobenzene (4-E	BFB)	0.83		.836	mg/Kg	1	1	83	84		- 131.
Matrix Spike (MS-1)	Spiked	Sample: 1	24019						Anal	yzed By	
QC Batch: 37203 Prep Batch: 32266				Analyzed eparatic						ared By	: AG
Prep Batch: 32266		М	QC Pr S	eparatic	n: 2007-0	5-14 Spike		Matrix	Prep	·	Rec.
Prep Batch: 32266 Param		Res	QC Pr S ult	eparatic Units	on: 2007-08 Dil.	5-14 Spike Amou	nt l	Result	Prep Rec.	•	Rec. Limit
Prep Batch: 32266 Param GRO		Res 8.7	QC Pr S ult 72	eparatic Units mg/Kg	n: 2007-05 	5-14 Spike <u>Amou</u> 10.0	nt]	Result 3.85	Prep Rec. 49	•	Rec. Limit
Prep Batch: 32266 Param GRO	on the sj	Res 8.7	QC Pr S ult 72	eparatic Units mg/Kg	n: 2007-05 	5-14 Spike <u>Amou</u> 10.0	nt]	Result 3.85	Prep Rec. 49	•	Rec. Limit
Prep Batch: 32266 Param GRO Percent recovery is based o	on the sp	Res 8.7	QC Pr S ult 72	eparatic Units mg/Kg	n: 2007-05 	5-14 Spike <u>Amou</u> 10.0	nt l	Result 3.85	Prep Rec. 49	•	Rec. Limit - 141.
	on the sj	Res 8.7 pike result.	QC Pr S ult 72	Units <u>mg/Kg</u> based o Dil.	Dil. Dil. 1 on the spike Spike	5-14 Spike Amou 10.0 e and spike Matri	nt	Result 3.85 ite resu	Prep Rec. 49 ult.	•	Rec.

Report Date: May Plains048SPL	18, 2007	`	Wor E		Page Number: 7 of 8 Lea County, NM					
Surrogate		MS Resul	MSD t Result	Units	Dil.	Spike Amou				Rec. imit
Trifluorotoluene (TH	 ΓT)	0.688	3 0.698	mg/Kg	1	1	69	70	40 -	125.3
4-Bromofluorobenze		1.26	1.22	mg/Kg	1	1	12	6 122	86.7	- 144.5
Matrix Spike (MS	5-1) Spike	ed Sample: 12	24019							
QC Batch: 37288 Prep Batch: 32278			Date Analyz QC Prepara						yzed By ared By	
			v i					1	v	
Param		MS Resu		s Dil.	-	ike ount	Matrix Result	Rec.		Rec. imit
DRO		282				50	58.5	89		- 152.3
			01						11.1	102.0
Percent recovery is	based on the	spike result.	RPD is base		e and s	pike dup	licate res	sult.		
		MSD		Spike		trix		Rec.		RPD
Param		\mathbf{Result}	Units D				lec.	Limit	RPD	Limi
DRO		283	mg/Kg I	L 250	58	3.5 1	.13 11	.7 - 152.3	0	20
Surrogate	MS Resul	MSD t Resul		s Dil.		pike nount	MS Rec.	MSD Rec.		Rec. Limit
n-Triacontane	186	183	mg/K	g 1		150	124	122	17	- 163.
Standard (ICV-1) QC Batch: 37202 Param Benzene Toluene Ethylbenzene Xylene	Flag	Units mg/Kg mg/Kg mg/Kg mg/Kg	Date Analyz ICVs True Conc. 0.100 0.100 0.100 0.300	$\begin{array}{c} \text{red:} & 2007\text{-}03\\ & \text{ICVs}\\ & \text{Found}\\ & \text{Conc.}\\ \hline & 0.0912\\ & 0.0945\\ & 0.0968\\ & 0.295 \end{array}$]	ICVs Percent tecovery 91 94 97 98	R 	Anal Percent Recovery Limits 35 - 115 35 - 115 35 - 115 35 - 115	An 200 200 200	: AG Date alyzed 7-05-14 7-05-14 7-05-14 7-05-14
Standard (CCV-1 QC Batch: 37202)		Date Analyz CCVs	CCVs		CCVs		Percent	yzed By	
QC Batch: 37202		Unite	CCVs True	CCVs Found]	Percent	R	Percent lecovery]	Date
QC Batch: 37202 Param) Flag	Units mg/Kg	CCVs True Conc.	CCVs Found Conc.]	Percent lecovery	R	Percent lecovery Limits] An	Date alyzed
QC Batch: 37202 Param Benzene		mg/Kg	CCVs True Conc. 0.100	CCVs Found Conc. 0.0917]	Percent lecovery 92	R 	Percent Recovery Limits 35 - 115] 	Date alyzed 7-05-14
QC Batch: 37202 Param Benzene Toluene		mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100	CCVs Found Conc. 0.0917 0.0938]	Percent tecovery 92 94	8	Percent lecovery Limits 35 - 115 35 - 115	1 An 200 200	Date alyzed 7-05-14 7-05-14
QC Batch: 37202 Param Benzene		mg/Kg	CCVs True Conc. 0.100	CCVs Found Conc. 0.0917]	Percent lecovery 92	R 	Percent Recovery Limits 35 - 115] 	Date alyzed

Standard (ICV-1)

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QC Batch: 37203

Date Analyzed: 2007-05-14

Analyzed By: AG

Report Da Plains048S	te: May 18, 2 SPL	2007	V	Vork Order: 70 EK Queen St		Page Number: 8 of 8 Lea County, NM			
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
GRO		mg/Kg	1.00	1.06	106	85 - 115	2007-05-14		
Standard	(CCV-1)								
QC Batch:	37203		Date Ana	alyzed: 2007-0	5-14	Anal	yzed By: AG		
			CCVs True	CCVs Found	$\begin{array}{c} \mathrm{CCVs} \\ \mathrm{Percent} \end{array}$	Percent Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
GRO		mg/Kg	1.00	0.880	88	85 - 115	2007-05-14		
Standard	(ICV-1)								
QC Batch:	37288		Date Ana	alyzed: 2007-0	5-14	Anal	yzed By: AG		
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
DRO		mg/Kg	250	242	97	85 - 115	2007-05-14		
Standard	(CCV-1)								
QC Batch:	37288		Date Ana	alyzed: 2007-0	5-14	Anal	yzed By: AG		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
DRO		m mg/Kg	250	236	94	85 - 115	2007-05-14		

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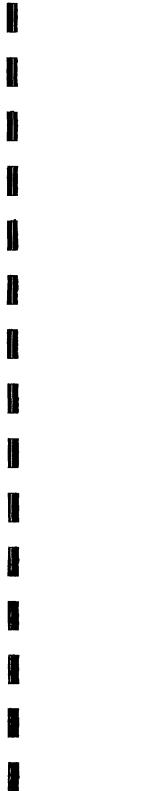
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Page	za te	ALYSIS REQUEST Specify Method						Hq ,22T ,DOE Moisture Conte	-			-				6 4 4	14 All +cs43 - Widlen Dry Weight Basis Required	TRRP Report Required Check If Special Reporting Limits Are Needed	
٩	D East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	ANALYSIS REQUEST Or Specify Meth				80		9 \ 2808 <i>e</i> ticides 8082 / 6								5°	t cst	Report If Speci Are Nee	
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		Company Name: Address:	SIK E Contact Person: EB	Invoice to: (If different from above)	Project #: PIA: NS OY 8 S'PE	Project Location (including state):		LAB# (LABUSE)	124019		 -				Y	Relinquished by:	Relinquished by:	Relinquished by:	Submittal of samples constitutes agreement to Terms and Conditions listed on
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Photograph Documentation

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TALON/LPE

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

Photograph No. 1

Photographic Documentation

Prepared by:Marc StroopePhotographer:Marc StroopeProject Number:PLAINS048SPL



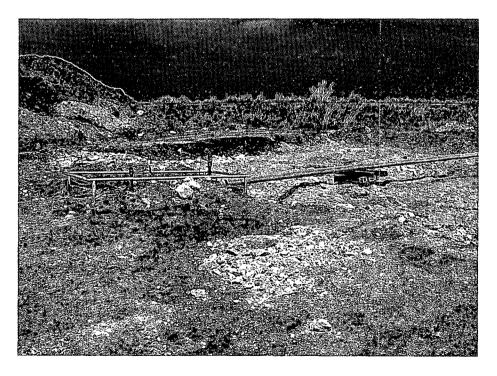
Direction: East

Description: View of excavation area.

Photograph No. 2

Direction: Northwest

Description: View of excavation area.



TALON/LPE

Client: Plains All American **Location:** E.K. Queen State Lea County, Texas

Photographic DocumentationPrepared by:Marc StroopePhotographer:Marc Stroope

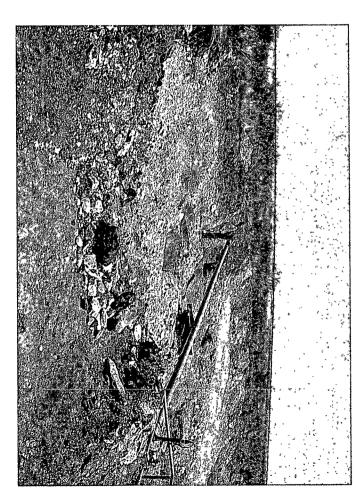
Project Number:

PLAINS048SPL

Photograph No. 3

Direction: North

Description: View of excavation area.



Photograph No. 4

Direction: Southwest

Description: View of excavation area.



New Mexico Office of the State Engineer

Page 1 of 1

EKQueen 6" State

New Mexico Office of the State Engineer POD Reports and Downloads	
Township: 18S Range: 34E Sections: 20	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number:	Suffix:
Owner Name: (First) (Last) ONon-Domestic	⊖ Domestic
POD / Surface Data Report Avg Depth to Water Report Water Column Report	כ
Clear Form iWATERS Menu Help	

AVERAGE DEPTH OF WATER REPORT 06/12/2007

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	x	Y	Wells	Min	Max	Avg
L	18S	34E 20				2	120	130	125

Record Count: 2

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 Energy Mine	erals		l Resources		Form (Revised October 10						
1000 Rio Brazos Road Aztec: NM 87410		rvation Div				Submit 2 District	Copies to appropr Office in accorda				
District IV 1220 S	-	h St. Franc			with Rule 116 on b side of fo						
		e, NM 875									
Release Notifica	atio	n and Co	orrective A	ctio	1						
		OPERA	TOR		x Initia	al Report	Final Re				
Name of Company Plains Pipeline			nille Reynolds								
Address 3112 W. US Hwy 82, Lovington, NM 88260		Telephone No. 505-441-0965 Facility Type 6"Steel Pipeline									
Facility Name E.K. Queen 6 Inch State		racinty Typ	e o Steel Pipeli	ne							
Surface Owner SLO Mineral Ov	wner			<u> </u>	Lease N	lo					
LOCA	TIO	N OF REI	LEASE								
Unit Letter Section Township Range Feet from the		/South Line	Feet from the	East/	West Line	County					
G 20 18S 34E						Lea					
				L							
GW~98' Latitude 32° 44' 12.4"	-	_ Longitude	<u>103° 34' 41.5</u>	n 							
NATI	URE	OF RELI	EASE								
Type of Retease Crude Oil		the second s	Release 20 barre	_		ecovered 0	the second s				
Source of Release 6" Steel Pipeline		Date and H 02/02/2007	lour of Occurrenc	æ		Hour of Dis 7 @ 11:00	scovery				
Was Immediate Notice Given?	·······	If YES, To			1 0202200	7 (13 11.00					
X Yes 🗌 No 🗌 Not Req	uired	Pat Caperto	m				128450				
By Whom? Camille Reynolds			lour 02/02/2007			15	12845				
Was a Watercourse Reached?		II YES, volume impacting the Watercourse.									
				• <u>•••••</u> ••••••••••••••••••••••••••••••		18 1	FEB 2.JT				
If a Watercourse was Impacted, Describe Fully.*		٢				Contraction of the	Nobi OCU				
Describe Cause of Problem and Remedial Action Taken Internal co inch steel gathering line that produces approximately 433 barrels of sweet crude oil is 42. The sweet crude has an H_2S content of <10 p. Stimate O $2/64$ sg ft. Wie a Z impact				•							
Describe Area Affected and Cleanup Action Taken.* The impacted	soil v	was excavated	and stockpiled on	plastic	2						
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain reli- public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem or the environment. In addition, NMOCD acceptance of a C-141 re- federal, state, or local laws and/or regulations.	ease 1 t by th nedia	notifications and ne NMOCD matter te contamination	nd perform correct arked as "Final Room that pose a three	tive act eport" of eat to g	tions for rele loes not relie round water.	eve the ope	may endanger rator of liability ater, human healt				
Signature: amille Kechaid			OIL CONS			DIVISIC	<u>DN</u>				
	J	Annoved he	ENIRO District Supervise	ENG							
Printed Name: Camille Reynolds				5	-teli	130					
Title: Remediation Coordinator		Approval Date: 6.28.07 Expiration Date: 8.30-0									
E-mail Address: cjreynolds@paalp.com		Conditions of			A	Attached					
Date: 02/05/2007 Phone: 505-441-09	65	OUBMIT	THE of FIN	JAL	<u>Ľ•/4/ E</u>	14					
Attach Additional Sheets If Necessary Lacility - PACO703829486	, }					R 119					