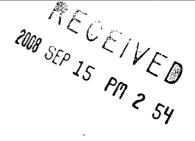
1R- 404

REPORTS

DATE:





SOIL CLOSURE REQUEST

LEA STATION TO MONUMENT 6-INCH NE ¼, SE ¼, SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST MONUMENT, NEW MEXICO PLAINS SRS NUMBER: 2001-11056 NMOCD REF 1R-0404

Prepared for:

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



Prepared by:

NOVA Safety and Environmental 2057 Commerce Midland, Texas 79703

September 2008

Ronald K. Rounsaville Project Manager

Todd K. Choban, P.G. Vice President, Technical Services

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1.0 INTRODUCTION

On behalf of Plains Pipeline, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Soil Closure Request to the New Mexico Oil Conservation Division (NMOCD). The site is located approximately 1.5 miles south of the town of Monument, New Mexico, in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 5, Township 20 South, and Range 37 East. The crude oil release occurred on August 3, 2001 and was estimated as three barrels, with none recovered. The release resulted in a surface stained area which measuring approximately 175 feet in length by 50 feet in width. The site, formerly the responsibility of Enron Oil Trading and Transportation (EOTT) is now the responsibility of Plains. For reference, a site location and site map are provided as Figures 1 and 2, respectively. The Release Notification and Corrective Action (Form C-141) is included as Appendix D.

Emergency response activities consisted of immediately excavating around the pipeline in the release area, locating the leak point and repairing the line. On September 20 and 21, 2001, initial site activities consisted of excavation of highly contaminated/saturated soil to a depth of approximately three feet below ground surface (bgs). Approximately 3,200 cubic yards of impacted soil was stockpiled to the west of the excavation area. A Site Map depicting the site features is presented as Figure 2.

In June 2006, a Soil Remediation Work Plan (Work Plan) was submitted by Plains to the NMOCD. The Work Plan detailed proposed activities designed to progress the release site toward an NMOCD approved soil closure.

On February 19, 2008, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan (Appendix A). This Soil Closure Request details the results of the NMOCD approved activities completed at the site.

Documentation previously submitted to the NMOCD will not be included in this Soil Closure Request.

2.0 NMOCD SITE CLASSIFICATION

The depth to groundwater in the on-site area is less than 50 feet bgs. Based on the NMOCD soil classification system, 20 points would be assigned to the site as a result of this criterion.

The distance to the nearest water source exceeds 1,000 feet, resulting in zero points being assigned to the site on this ranking criterion. There is no surface water body located within 1,000 feet of the site, resulting in zero points being assigned on this ranking criterion. The NMOCD guidelines indicate that the site would have a Ranking Score of >19. The soil action levels for a site with a Ranking Score of >19 points are as follows:

- Benzene 10 ppm
- BTEX 50 ppm
- TPH 100 ppm

The approved Soil Remediation Work Plan proposed that if hydrocarbon impact exceeding NMOCD cleanup standards existed in the soil below 15 feet in depth, then a synthetic liner would be installed in the excavation over the area exceeding the cleanup standards. Impacted

excavated soil from the surface to 15 feet bgs would be treated on-site by blending and aeration techniques to achieve target concentrations (or below) as stated in the Work Plan. Pursuant to the Work Plan, treated soil above the liner will be blended to less than 1000 mg/kg TPH, less than 10 mg/Kg benzene and less than 50 mg/Kg total BTEX.

3.0 SUMMARY OF RECENT FIELD ACTIVITIES

3.1 Impacted Soil Removal

Pursuant to the Work Plan, approved by the NMOCD on February 19, 2008, excavation of the impacted soils in the area of the release began on April 8, 2008. An excavator was utilized to remove impacted soil from the floor and sidewalls of two original excavation areas. The excavated soil was stockpiled on-site, pending laboratory analysis. As excavation activities progressed, soil samples were collected from the floor and sidewalls of the northern and southern excavation areas. Based on visual and olfactory observations, the final dimensions of the northern excavation area were approximately 165 feet in length (north to south) by 50 feet in width (east to west) and averaged approximately 15 feet below ground surface (bgs). The southern excavation measured approximately 20 feet in length (east-west) by 20 feet in width (north-south) and averaged approximately 8 feet bgs. An estimated 4,300 cubic yards of soil was brought to surface and combined with the existing 3,200 cubic yard soil stockpile excavated during the June 2001 emergency abatement activities for onsite remediation by mixing, blending and aeration methods. Excavation activities were completed on April 28, 2008. Figure 3 is a site details map displaying the pipeline, leak source, excavation area, confirmation soil sample locations and other site details.

3.2 Excavated Soil Remediation

Excavated soil was staged in a large cleared area located west of the excavations. Non-impacted near-surface soil collected from within the cleared area was pushed up and used to blend with the impacted soil. Mixing and blending activities continued concurrently with excavation activities.

3.3 Confirmation Soil Sampling – Excavation Areas

Confirmation soil samples collected from the excavation areas were submitted for laboratory analysis for TPH by Method 8015M and BTEX by Method 8021B. Laboratory submitted samples were placed in a new sterile glass container, equipped with a Teflon-lined lid furnished by the laboratory. Samples were labeled, placed on ice, and chilled to a temperature of approximately 4° C. Appropriate chain-of-custody documentation and shipping protocols were followed. The laboratory analytical reports are provided in Appendix C. Table 1 displays the analytical results of confirmation soil samples.

On April 11 and 16, 2008, confirmation soil samples were collected from the floor and sidewalls of the Northern and Southern excavation areas. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively, with the exception of the soil samples collected from the northern excavation area at locations identified as S. Floor, 15 ft. and S. Wall-1, 12 ft. The

analytical results for soil sample S. Floor, 15 ft. indicated the total petroleum hydrocarbon (TPH) concentration was 228.6 mg/Kg. The analytical results for soil sample S. Wall-1, 12 ft. indicated the TPH concentration was 642 mg/Kg.

On April 23, 2008, the area surrounding soil sample S. Wall-1, 12 ft. was excavated further to the south approximately 12 feet. Confirmation soil sample S. Wall-2, 14 ft. was collected from the excavation sidewall and submitted for laboratory analysis. The analytical results for soil sample S. Wall-2, 14 ft. indicated the TPH concentration was 1,938 mg/Kg.

On April 28, 2008, upon receipt of initial analytical results, the area surrounding soil sample S. Wall-2, 14 ft. was excavated approximately 15 feet further to the south. Four additional confirmation soil samples, including a sample identified as South Wall-4, 13 ft., were collected from the south end of the north excavation area. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards.

3.4 Confirmation Soil Sampling – Blended Soil Piles

From April 29 through May 13, 2008, the estimated 3,200 cubic yards of impacted soil from the 2001 excavation combined with the 4,300 cubic yards stockpiled soils from the two excavation areas were staged in a cleared area to the west of the excavation. Non-impacted soil collected from a borrow area west of the stockpiled soil was used to mix with the impacted soil.

On May 13, 2008, 15 composite soil samples (SS-1 through SS-15) were collected from the blended soil stockpile and submitted to the laboratory for analysis. The analytical results indicated the TPH concentration of the stockpile soil ranged from <50 mg/Kg to 1,072 mg/Kg. Benzene concentrations were less than 0.005 mg/Kg and total BTEX concentrations were below 50 mg/Kg. On May 22, 2008, following additional soil blending activities, 15 new composite soil samples (SS2-1 through SS2-15) were collected from the blended soil stockpile and submitted to the laboratory for analysis. The analytical results indicated the TPH concentration of the stockpile soil ranged from 277 mg/Kg to 449 mg/Kg. Benzene and BTEX concentrations were below the laboratory method detection limit of 0.010 mg/Kg.

3.5 Synthetic Liner Placement

Upon receipt of laboratory analytical results indicating all of the identified areas of hydrocarbon impact were below the approved criteria set forth in the Work Plan for treated soils, preparation for the installation of the synthetic liner installation began as proposed in the workplan to the NMOCD dated June 2006. The floor of the excavation required some leveling to provide an effective and efficient pathway for the channeling of moisture. Following the leveling activities, a six-inch layer of non-impacted sand, acquired locally, was placed in the excavation. The sand protects the synthetic liner from rips and tears and aids in the proper installation of the liner.

On June 6, 2008, the synthetic liner was installed at a depth of approximately 15 feet below ground surface in the excavation by a vendor trained in the proper installation of impermeable liners. Photographic documentation of the liner installation is provided as Appendix B.

Following the synthetic liner installation an additional six-inch layer of non-impacted sand was placed on top of the liner to further protect the liner.

3.6 Backfilling and Surface Restoration

Based on analytical results of laboratory analyzed confirmation soil samples obtained from the excavation areas and remediated soil piles, on May 30, 2008, the NMOCD approved the backfilling of the excavations with remediated soil. On June 9, 2008, upon completion of liner installation activities, backfilling of the excavation commenced. The blended soil stockpile was placed in the excavation in twelve-inch lifts and compacted. A water truck was used to supply moisture to the soil to allow for proper compaction.

On June 11, 2008, backfilling activities were completed and the disturbed area was contoured to fit the surrounding topography.

4.0 SOIL CLOSURE REQUEST

Plains has completed the activities proposed in the NMOCD approved Soil Remediation Work Plan dated June 2006 and requests NMOCD approval for Soil Closure.

A complete (including groundwater) Site Closure Request will be submitted to the NMOCD after eight consecutive quarterly groundwater sampling events have demonstrated BTEX concentrations are below the NMOCD regulatory guidelines.

5.0 LIMITATIONS

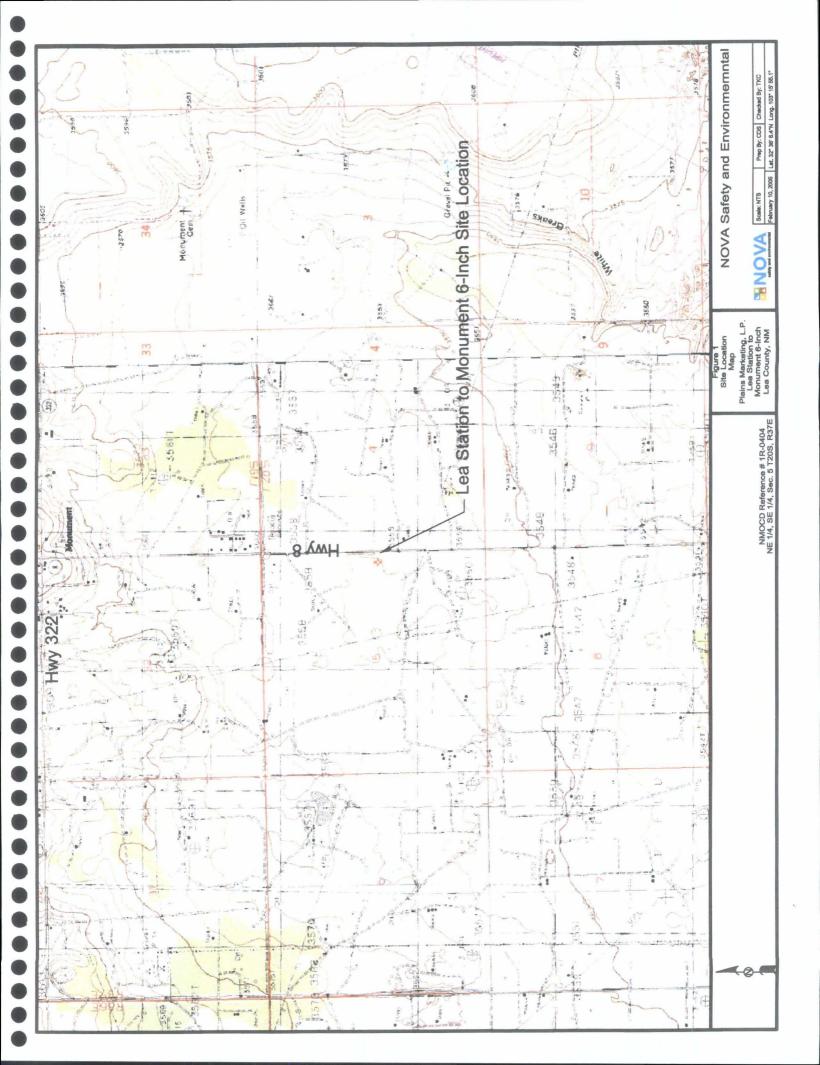
NOVA has prepared this Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

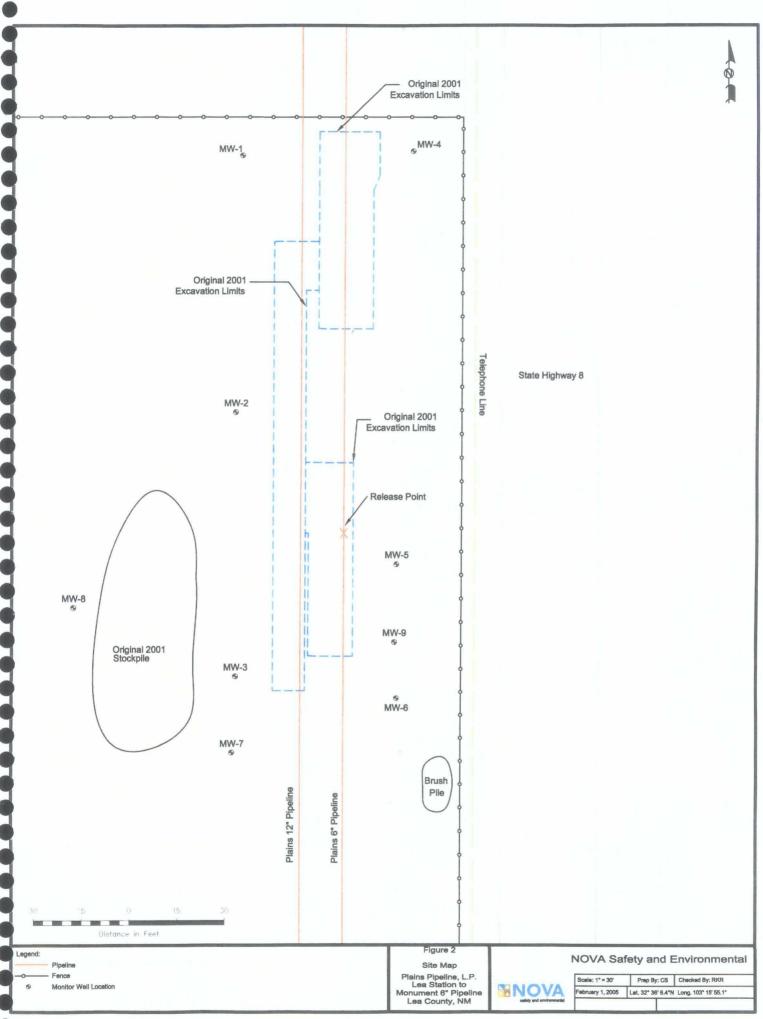
This report has been prepared for the benefit of Plains. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or Plains.

6.0 DISTRIBUTION

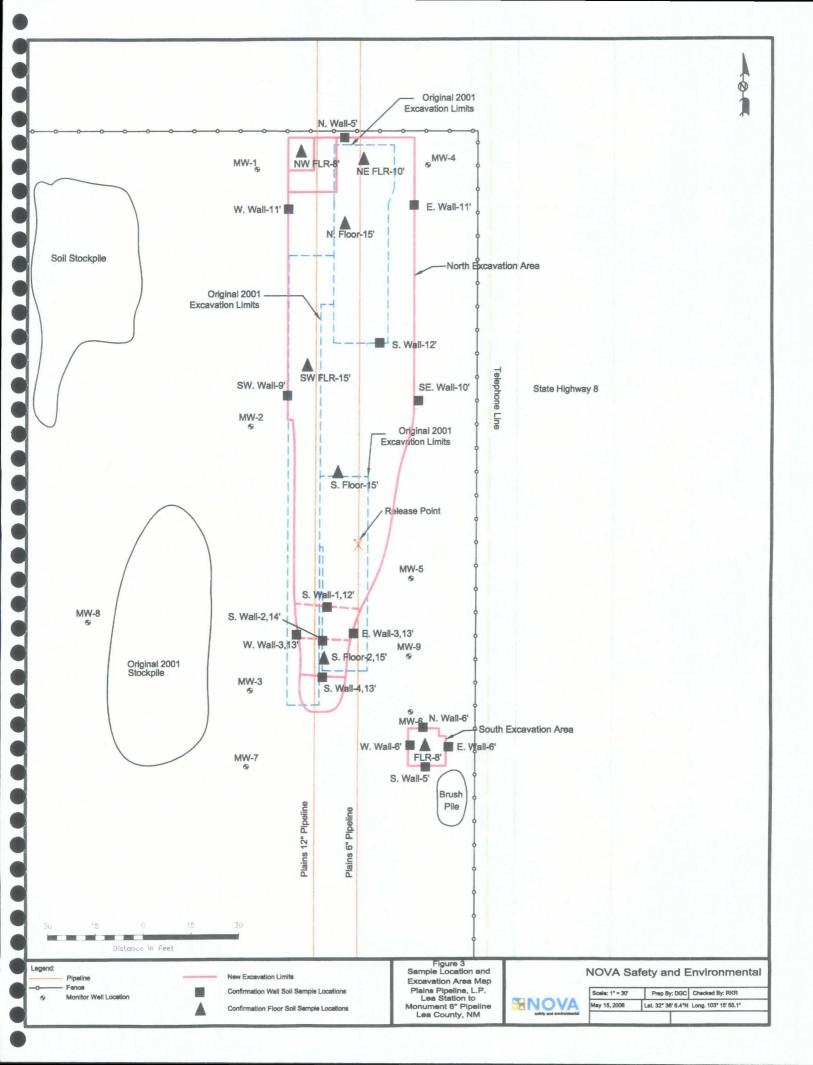
Copy 1:	Ed Hansen New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505
Copy 2:	Larry Johnson New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division District 1 1625 French Drive Hobbs, NM 88240
Сору 3:	Camille Bryant Plains Marketing, L.P. 3112 Highway 82 Lovington, New Mexico cjbryant@paalp.com
Copy 4:	Jeff Dann Plains Marketing, L.P. 333 Clay Street, Suite 1600 Houston, Texas 77002 jpdann@paalp.com
Copy 5:	NOVA Safety and Environmental. 2057 Commerce Drive Midland, Texas 79703 rrounsaville@novatraining.cc

FIGURES





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TABLES

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TABLE 1

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PLAINS PIPELINE, L.P. Concentrations of BTEX and TPH in Soil LEA STATION TO MONUMENT 6"

NMOCD Reference # 1R-0404

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SM 4500	Chloride mg/Kg	250	The second				•		,	<100			•		1				•	,		•	記が始めま	•	の時間になった。	•		.	
	Total BTEX mg/Kg	50		<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01		<0.05	<0.01	0.1123	<0.01	2.056	0.226	<0.01	<0.01	<0.01	<0.01	AND ALL PROPERTY OF	•	Same Same	<0.01	<0.01	<0.01	
21b	Xylene mg/Kg			<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01		<0.05	<0.01	0.0592	<0.01	1.06	<0.01	<0.01	<0.01	<0.01	<0.01		•		<0.01	<0.01	<0.01	
Method SW 846-8021b	Ethylbenzen e mg/Kg		COMPANY NO.	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01		<0.05	<0.01	0.0531	<0.01	0.782	0.0226	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	
Meth	Toluene mg/Kg	,		<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	法现在委任管	<0.05	<0.01	<0.01	<0.01	0.214	<0.01	<0.01	<0.01	<0.01	<0.01	机运动管理			<0.01	<0.01	<0.01	
	Benzene mg/Kg	10	Statistics	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01		<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	
<u>5</u> b	Total TPH C ₆ -C ₃₅ mg/Kg	100	的功能是如何无限	<50	<50	<50	<50	<50	<50	<50	<50		<50	<50	228.6	<50	642	<50	<50	<50	<50	<50		1,938		<50	<50	<50	
Method SW-8015b	DRO >C ₁₂ -C ₃₅ mg/Kg	1		<50	<50	<50	<50	<50	<50	<50	<50		<50	<50	188	<50	491	<50	<50	<50	<50	<50		1,830	Solution of the local sector	<50	<50	<50	
Me	GRO C ₆ -C ₁₂ mg/Kg	•	10.00 - 10.000 10.000 - 10.000 10.000 - 10.000	<1.0	<1.0	<1.0	1.54	<1.0	<1.0	8.26	<1.0		15.9	<1.0	40.6	1.38	151	7.83	2.35	1.15	<1.0	<1.0		108		<1.0	<1.0	<1.0	
	SOIL STATUS		le Locations	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ	Excavated	A PROPERTY TON	In-Situ	In-Situ	In-Situ	In-Situ	Excavated	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ		Excavated		In-Situ	In-Situ	In-Situ	
	SAMPLE DEPTH		Sidewall Samp	11,	11'	5'	-20	10'	15'	15'	12'		15'	10'	15'	9'	12'	6'	51	6'	6'	8		14'		13'	13'	13'	
	SAMPLE DATE SAMPLE LOCATION	NMOCD REGULATORY STANDARD	Excavation Floor and Sidewall Sample	W. Wall - 11'	E. Wall - 11'	N. Wall-S'	NW FLR-8'	NE. FLR-10'	SE. FLR-15'	SW. FLR-15'	S. Wall-12'		N. Floor, 15'	S.E. Wall, 10'	S. Floor, 15'	S.W. Wall, 9'	S. Wall-1, 12'	S. Exc. E. Wall, 6'	S. Exc. S. Wall, 5'	S. Exc. N. Wall, 6'	S. Exc. W. Wall, 6'	S. Exc. Floor, 8'		S. Wall-2, 14'		South Wall-4, 13'	East Wall-3, 13'	West Wall-3, 13'	
	SAMPLE DATE	NMOCD REGUL		4/11/2008	4/11/2008	4/11/2008	4/11/2008	4/11/2008	4/11/2008	4/11/2008	1/2008		4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008	4/16/2008		4/23/2008		4/28/2008	4/28/2008	4/28/2008	

TABLE 1

PLAINS PIPELINE, L.P. Concentrations of BTEX and TPH in Soil LEA STATION TO MONUMENT 6" NMOCD Reference # 1R-0404

				Met	Method SW-8015b	Sb		Meti	Method SW 846-8021b	1216		SM 4500
APLE DATE	SAMPLE DATE SAMPLE LOCATION	SAMPLE DEPTH	SOIL	GRO C ₆ -C ₁₂ mg/Kg	DRO >C ₁₂ -C ₃₅ mg/Kg	Total TPH C ₆ -C ₃₅ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzen e mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg	Chloride mg/Kg
AOCD REGUL	NMOCD REGULATORY STANDARD			•	•	100	10	,	1	1	20	250
	Soil Stockpile Composite Sar	Composite Sar	nples			1,000						
5/13/2008	Soil Stockpile, SS-1			72.1	1,000	1,072	<0.020	<0.020	0.0625	0.114	0.1765	•
5/13/2008	SS-2	;	Blended	26.2	960	986	<0.020	<0.020	0.0326	0.0953	0.1279	•
5/13/2008	SS-3		Blended	32	736	768	<0.020	<0.020	<0.020	0.0539	0.0539	•
5/13/2008	SS-4	•	Blended	44.4	1,020	1,064	<0.020	<0.020	0.0356	0.0683	0.1039	
5/13/2008	SS-5		Blended	60.7	895	956	<0.020	<0.020	0.0415	0.0796	0.1211	•
5/13/2008	SS-6	-	Blended	49.2	889	938	<0.020	<0.020	0.0265	0.0536	0.0801	1
5/13/2008	SS-7	ł	Blended	55.7	886	942	<0.020	<0.020	0.0380	0.0832	0.1212	۰
5/13/2008	SS-8		Blended	51	820	871	<0.020	<0.020	0.0325	0.0656	0.0981	•
5/13/2008	SS-9	1	Blended	57.5	724	782	<0.050	<0.050	<0.050	0.0756	0.0756	1
5/13/2008	SS-10	1	Blended	64.1	870	934	<0.020	<0.020	0.0608	0.114	0.1748	I
5/13/2008	SS-11	ł	Blended	27.7	610	638	<0.020	<0.020	<0.020	0.0245	0.0245	1
5/13/2008	SS-12	1	Blended	41.1	837	878	<0.020	<0.020	<0.020	0.0437	0.0437	•
5/13/2008	SS-13	1	Blended	19.3	302	322	<0.020	<0.020	<0.020	0.0208	0.0208	,
5/13/2008	SS-14	1	Blended	13.2	276	289	<0.010	<0.010	<0.010	<0.010	<0.010	,
5/13/2008	SS-15	1	Blended	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	•
						1,000		新学校	き は あいあまます			Constants.
5/22/2008	Soil Stockpile, SS2-1	1	Blended	10.2	408	418	<0.010	<0.010	<0.010	<0.010	<0.010	
5/22/2008	SS2-2		Blended	11.2	346	357	<0.010	<0.010	<0.010	<0.010	<0.010	1
5/22/2008	SS2-3	1	Blended	10.3	320	330	<0.010	<0.010	<0.010	<0.010	<0.010	-
5/22/2008	SS2-4	5	Blended	1.86	395	397	<0.010	<0.010	<0.010	<0.010	<0.010	
5/22/2008	SS2-5	1	Blended	5.61	307	313	<0.010	<0.010	<0.010	<0.010	<0.010	,
5/22/2008	SS2-6	1	Blended	5.92	271	277	<0.010	<0.010	<0.010	<0.010	<0.010	
5/22/2008	SS2-7	ł	Blended	12.4	450	462	<0.010	<0.010	<0.010	<0.010	<0.010	
5/22/2008	SS2-8	1	Blended	9.19	433	442	<0.010	<0.010	<0.010	<0.010	<0.010	,
5/22/2008	SS2-9	1	Blended	9.41	434	443	<0.010	<0.010	<0.010	<0.010	<0.010	1
5/22/2008	SS2-10	1	Blended	7.8	441	449	<0.010	<0.010	<0.010	<0.010	<0.010	1
5/22/2008	SS2-11	1	Blended	10.3	439	449	<0.010	<0.010	<0.010	<0.010	<0.010	1
5/22/2008	SS2-12	1	Blended	3.27	381	384	<0.010	<0.010	<0.010	<0.010	<0.010	•
5/22/2008	SS2-13	1	Blended	13.5	427	440	<0.010	<0.010	<0.010	<0.010	<0.010	•
5/22/2008	SS2-14	;	Blended	2.56	298	300	<0.010	<0.010	<0.010	<0.010	<0.010	•
5/22/2008	SS2-15	1	Blended	<1.0	320	320	<0.010	<0.010	<0.010	<0.010	<0.010	,

APPENDICES

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APPENDIX A

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Ron Rounsaville

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From:	"Camille J Bryant" <cjbryant@paalp.com></cjbryant@paalp.com>
To: Sent:	"Ron Rounsaville (E-mail)" <rrounsaville@novatraining.cc> Thursday, July 31, 2008 3:12 PM</rrounsaville@novatraining.cc>
Subject:	FW: Lea Station to Monument 6-Inch Site (1R-0404)

-----Original Message-----From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us] Sent: Tuesday, February 19, 2008 3:59 PM To: Camille J Reynolds Subject: RE: Lea Station to Monument 6-Inch Site (1R-0404)

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (OCD) has reviewed the soil remediation work plan for the above referenced site. The OCD hereby approves the work plan for the above referenced site. Please submit a soil remediation report within 60 days of completion of the work plan.

Also, please be advised that OCD approval does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please call me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

-----Original Message-----From: Camille J Reynolds [mailto:cjreynolds@paalp.com] Sent: Thursday, February 14, 2008 9:57 AM To: Hansen, Edward J., EMNRD Subject: Lea Station to Monument 6-Inch Site

Ed,

Pursuant to our conversation Plains respectfully requests approval to conduct soil remediation activities at the Lea Station to Monument 6-Inch release site. Nova Safety and Environmental on behalf of Plains submitted a Soil Remediation Work Plan dated June 2006 NMOCD Ref# 1R-0404 which details soil remediation activities to be conducted at the site. At this time Plains is requesting NMOCD approval to conduct soil activities at the site.

Please contact me with any questions or comments.

Sincerely,

Camille Reynolds Remediation Coordinator Plains All American

office: 505/396-3341 fax: 505/396-2754 cellular: 505/441-0965

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APPENDIX B

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Photographic Documentation

Client: Plains Marketing, L.P. Location: Lea County, New Mexico Photograph Date: June 6, 2008 Prepared by: NOVA Photographer: Ron Rounsaville Project Name: Lea to Monument 6-Inch

Photograph No. 1

Date: 06/06/08

Direction: South

Description: View of the synthetic Liner Installation within the northern excavation area.

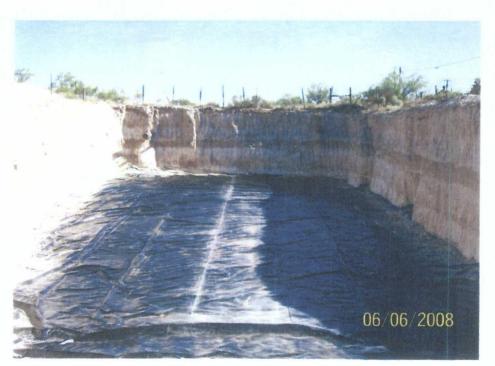
Photograph No. 2

Date: 06/06/08

Direction: North

Description: Synthetic Liner Installation within the northern excavation area.







Photographic Documentation

Client: Plains Marketing, L.P. Location: Lea County, New Mexico Photograph Date: June 6, 2008

Photograph No. 3

Date: 06/06/08

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Direction: Southeast

Description: Synthetic Liner Installation within the southern excavation area.

Prepared by: NOVA Photographer: Ron Rounsaville Project Name: Lea to Monument 6-Inch





Photograph No. 4

Date: 06/06/08

Direction: Northwest

Description: Installation of liner cushion sand within northern excavation.

APPENDIX C

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 6701 Aberdeen Avenue, Suite 9
 Lubbock, Texas 79424

 200 East Sunset Road, Suite E
 El Paso, Texas 79922

 5002 Basin Street, Suite A1
 Midland, Texas 79703

 6015 Harris Parkway, Suite 110
 Ft. Worth, Texas 76132

Lubbock, Texas 79424 800+378+1295 El Paso, Texas 79922 888+588+3443 Midiand, Texas 79703 Ft. Worth, Texas 76132 E-Mail: lab@traceanalysis.com

2 800+378+1295 888-528+3443 915+585+3443 432+689+6301 817+201+5260

296 FAX 806 • 794 • 1298 443 FAX 915 • 595 • 4944 301 FAX 432 • 699 • 6313 260

Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Project Location:Lea County, NMProject Name:Lea Station to Monument 6 inchProject Number:Lea Station to Monument 6 inchSRS#:SRS# 2001-11056

Report Date: April 18, 2008

Work Order: 8041131

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

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
156648	W. Wall-11'	soil	2008-04-11	10:42	2008-04-11
156649	E. Wall-11'	soil	2008-04-11	10:48	2008-04-11
156650	N. Wall-5'	soil	2008-04-11	10:52	2008-04-11
156651	NW. FLR-8'	soil	2008-04-11	10:56	2008-04-11
156652	NE. FLR-10'	soil	2008-04-11	11:00	2008-04-11
156653	SE. FLR-15'	soil	2008-04-11	11:05	2008-04-11
156654	SW. FLR-15'	soil	2008-04-11	11:10	2008-04-11
156655	S. Wall-12	soil	2008-04-11	11:15	2008-04-11

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

Dr. Blair Leftwich, Director

Standard Flags

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

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Analytical Report

Sample: 156648 - W. Wall-11'

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Analysis:BTEXQC Batch:47491Prep Batch:40838	_		Analytical l Date Analy Sample Pre	zed:	S 8021B 2008-04-15 2008-04-15		Prep Me Analyze Prepare	d By: DC	
			RI	J					
Parameter	\mathbf{Flag}		Resul	t	Units		Dilution		\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0	0100
Toluene			< 0.010)	mg/Kg		1	0.0)100
Ethylbenzene			< 0.010)	mg/Kg		1	0.0	0100
Xylene			< 0.010)	mg/Kg		1	0.0	0100
						Spike	Percent	Recove	ery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limit	s
Trifluorotoluene (TF	T) (T)		0.964	mg/Kg	1	1.00	96	82.9 - 12	25.1
4-Bromofluorobenze	ne (4-BFB)		0.980	mg/Kg	1	1.00	98	48.9 - 16	50.4

Sample: 156648 - W. Wall-11'

Analysis: QC Batch: Prep Batch:	TPH DRO 47427 40777		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 8 2008-04 2008-04	4-14	Analyz	dethod: zed By: zed By:	N/A LD LD
_			RL						
Parameter	Fla	ag	\mathbf{Result}		Uni	ts	Dilution		\mathbf{RL}
DRO			<50.0		mg/K	g	1		50.0
_						Spike	Percent		overy
Surrogate	Flag	Result	\mathbf{Units}	Dilu	ition	Amount	Recovery	Li	mits
n-Triacontan	e	88.0	mg/Kg	-	1	100	88	10 -	250.4

Sample: 156648 - W. Wall-11'

Analysis: QC Batch: Prep Batch:	TPH GRO 47434 40784		Analytical Date Anal Sample Pr		S 8015B 2008-04-14 2008-04-14		Prep Meth Analyzed Prepared	•
			RL					
Parameter	\mathbf{Flag}		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.01	mg/Kg	1	1.00	101	75 - 117.2
4-Bromofluor	robenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	66 - 142.8

Sample: 156649 - E. Wall-11'

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Analysis: QC Batch: Prep Batch:	BTEX 47491 40838		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-15 2008-04-15		Prep Me Analyze Preparec	d By: DC
			RI					
Parameter	Flag		Resul	t	Units]	Dilution	RL
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene			< 0.0100	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)		0.972	mg/Kg	1	1.00	97	82.9 - 125.1
4-Bromofluor	obenzene (4-BFB)		0.979	mg/Kg	1	1.00	98	48.9 - 160.4

Sample: 156649 - E. Wall-11'

Analysis: QC Batch: Prep Batch:	TPH DRO 47427 40777		Analytical Mo Date Analyze Sample Prepa	ed: 2008	. 8015B -04-14 -04-14	Analyz	Method: N/A zed By: LD red By: LD
			\mathbf{RL}				
Parameter	Fla	g	Result	Ŭ	nits	Dilution	\mathbf{RL}
DRO			<50.0	mg	/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	2	77.0	mg/Kg	1	100	77	10 - 250.4

Sample: 156649 - E. Wall-11'

Analysis: QC Batch: Prep Batch:	TPH GRO 47434 40784		Analytical Date Anal Sample Pr		S 8015B 2008-04-14 2008-04-14		Prep Method: Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	\mathbf{Flag}		\mathbf{Result}		Units	D	vilution	\mathbf{RL}	
GRO			<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		0.993	mg/Kg	1	1.00	99	75 - 117.2	
4-Bromofluor	cobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	66 - 142.8	

Report Date: April 18, 2008 Lea Station to Monument 6 inch Work Order: 8041131 Lea Station to Monument 6 inch

Sample: 156650 - N. Wall-5'

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Analysis: QC Batch: Prep Batch:	BTEX 47491 40838		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-15 2008-04-15		Prep Method: Analyzed By: Prepared By:		
			RJ	- .4					
Parameter	Flag		Resul	t	Units		Dilution	\mathbf{RL}	
Benzene			< 0.020	00	mg/Kg		2	0.0100	
Toluene			< 0.020	0	mg/Kg		2	0.0100	
Ethylbenzene			< 0.020)	mg/Kg		2	0.0100	
Xylene	······	·	< 0.020	00	mg/Kg	·····	2	0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolue	ne (TFT)		1.92	mg/Kg	2	2.00	96	82.9 - 125.1	
4-Bromofluor	obenzene (4-BFB)		1.93	mg/Kg		2.00	96	48.9 - 160.4	

Sample: 156650 - N. Wall-5'

Analysis: QC Batch: Prep Batch:	TPH DRO 47427 40777		Analytical Me Date Analyze Sample Prepa	d:	Mod. 80 2008-04- 2008-04-	14	Analyz	lethod: ed By: ed By:	N/A LD LD
			\mathbf{RL}						
Parameter	Fla	g	Result		Units	5	Dilution		RL
DRO			<50.0		mg/Kg	5	1		50.0
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	·	108	mg/Kg	1		100	108		250.4

Sample: 156650 - N. Wall-5'

Analysis: QC Batch: Prep Batch:	TPH GRO 47434 40784		Analytical Date Anal Sample Pr		S 8015B 2008-04-14 2008-04-14		Prep Method Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	\mathbf{Flag}		Result		\mathbf{Units}	D	ilution	\mathbf{RL}	
GRO	· · · · · · · · · · · · · · · · · · ·		<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		\mathbf{Flag}	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		1.00	mg/Kg	1	1.00	100	75 - 117.2	
4-Bromofluor	robenzene (4-BFB)		1.01	_mg/Kg	1	1.00	101	66 - 142.8	

Sample: 156651 - NW. FLR-8'

Analysis: QC Batch: Prep Batch:	BTEX 47491 40838		Analytical l Date Analy Sample Pre	zed:	S 8021B 2008-04-15 2008-04-15		Prep Me Analyze Prepare	d By: DC
			RI	بر				
Parameter	\mathbf{Flag}		Resul	t	Units		Dilution	\mathbf{RL}
Benzene			< 0.010)	mg/Kg		1	0.0100
Toluene			< 0.010)	mg/Kg		1 '	0.0100
Ethylbenzene	ę		< 0.010) .	mg/Kg		1	0.0100
Xylene			< 0.010)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.966	mg/Kg	1	1.00	97	82.9 - 125.1
4-Bromofluor	robenzene (4-BFB)		0.977	mg/Kg	1	1.00	98	48.9 - 160.4

Sample: 156651 - NW. FLR-8'

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Analysis: QC Batch: Prep Batch:	TPH DRO 47427 40777		Analytical Me Date Analyze Sample Prepa	d: 20	od. 8015B 08-04-14 08-04-14	Analyz	Method: N/A ed By: LD ed By: LD
			\mathbf{RL}				
Parameter	Fl	ag	Result		Units	Dilution	\mathbf{RL}
DRO			<50.0	I	mg/Kg	1	50.0
Surrogate	Flag	' Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan		83.8	mg/Kg	1	100	84	10 - 250.4

.

Sample: 156651 - NW. FLR-8'

Analysis: QC Batch: Prep Batch:	TPH GRO 47434 40784		Analytical Date Anal Sample Pr	yzed:	S 8015B 2008-04-14 2008-04-14		Prep Method: Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	Flag		\mathbf{Result}		\mathbf{Units}	D	ilution	\mathbf{RL}	
GRO			<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		\mathbf{Flag}	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		0.987	mg/Kg	1	1.00	99	75 - 117.2	
4-Bromofluo	robenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	66 - 142.8	

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Sample: 156652 - NE. FLR-10'

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Analysis: QC Batch: Prep Batch:	BTEX 47537 40859		Analytical l Date Analy Sample Pre	zed:	S 8021B 2008-04-16 2008-04-16		Prep Me Analyze Preparee	d By: DC
			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	e		< 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	ene (TFT)		0.991	mg/Kg	1	1.00	99	82.9 - 125.1
4-Bromofluor	obenzene (4-BFB)		0.983	mg/Kg	1	1.00	98	48.9 - 160.4

Sample: 156652 - NE. FLR-10'

Analysis: QC Batch: Prep Batch:	TPH DRO 47425 40777		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 8 2008-04 2008-04	-14	Analyz	lethod: ed By: ed By:	'
			\mathbf{RL}						
Parameter	Fla	g	\mathbf{Result}		Unit	ts -	Dilution		\mathbf{RL}
DRO			<50.0		mg/K	g	1		50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery		overy mits
n-Triacontan		96.8		1			V		
n-inacontan	e	90.8	mg/Kg		L,	100	97	- 10	250.4

Sample: 156652 - NE. FLR-10'

Analysis: QC Batch: Prep Batch:	TPH GRO 47538 40859		Analytical Date Anal Sample Pr		S 8015B 2008-04-16 2008-04-16		Prep Method: Analyzed By: Prepared By:		
			\mathbf{RL}						
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}	
GRO			<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		1.04	mg/Kg	1	1.00	104	75 - 117.2	
4-Bromofluor	robenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	66 - 142.8	

Sample: 156653 - SE. FLR-15'

Analysis:BTEXQC Batch:47537Prep Batch:40859			Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-16 2008-04-16		Prep Method Analyzed By Prepared By		5035 C C
			RI	J					
Parameter	Flag		Resul	t	Units]	Dilution		RL
Benzene			< 0.010)	mg/Kg		1	0.0	0100
Toluene			< 0.010)	mg/Kg		1	0.0	0100
Ethylbenzene			< 0.010)	mg/Kg		1	0.0	0100
Xylene			< 0.010)	mg/Kg		1	0.0	0100
						Spike	Percent	Recove	ery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limit	ts
Trifluorotoluene (TFT)			0.992	mg/Kg	1	1.00	99	82.9 - 1	25.1
4-Bromofluorobenzene (4-BI	FB)		0.978	mg/Kg	1	1.00	98	48.9 - 1	60.4

Sample: 156653 - SE. FLR-15'

Analysis: QC Batch: Prep Batch:	TPH DRO 47425 40777		Analytical Mo Date Analyze Sample Prepa	ed:	Mod. 80 2008-04- 2008-04-	-14	Prep M Analyz Prepar	v
Parameter	Fl	ag	RL Result		Units	S	Dilution	\mathbf{RL}
DRO			<50.0		mg/Kį	3	1	50.0
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	94.4	mg/Kg	1		100	94	10 - 250.4

Sample: 156653 - SE. FLR-15'

Analysis: QC Batch: Prep Batch:	TPH GRO 47538 40859		Analytical Date Anal Sample Pr		S 8015B 2008-04-16 2008-04-16		Prep Meth Analyzed Prepared I	By: DC
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	D	ilution	\mathbf{RL}
GRO	······································		<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.06	mg/Kg	1	1.00	106	75 - 117.2
4-Bromofluor	cobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	66 - 142.8

Sample: 156654 - SW. FLR-15'

Analysis:BTEXQC Batch:47537Prep Batch:40859		Analytical Date Analy Sample Pre	zed:	S 8021B 2008-04-16 2008-04-16		Prep Me Analyze Prepare	d By: DC
		R	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		< 0.010	0	mg/Kg		1	0.0100
Xylene		< 0.010	0	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Fla	g Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.991	mg/Kg	1	1.00	99	82.9 - 125.1
4-Bromofluorobenzene (4-BF	В)	1.00	mg/Kg	1	1.00	100	48.9 - 160.4

Sample: 156654 - SW. FLR-15'

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 47437 40787	Analytical Method: Date Analyzed: Sample Preparation	2008-04-14	Prep Method: Analyzed By: Prepared By:	AR
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		<100	mg/Kg	50	2.00

Sample: 156654 - SW. FLR-15'

Analysis: QC Batch: Prep Batch:	TPH DRO 47425 40777		Analytical Me Date Analyze Sample Prepa	ed: 20	od. 8015B 108-04-14 108-04-14	Analyz	Method:N/Awed By:LDwed By:LD
			\mathbf{RL}				
Parameter	Fla	g	Result		Units	Dilution	\mathbf{RL}
DRO			<50.0		mg/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilutio	Spike n Amount	Percent Recovery	Recovery Limits
n-Triacontan		70.5	mg/Kg	1	100		10 - 250.4

Sample: 156654 - SW. FLR-15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	47538	Date Analyzed:	2008-04-16	Analyzed By:	DC
Prep Batch:	40859	Sample Preparation:	2008-04-16	Prepared By:	DC

continued ...

Report Date: April 18, 2008 Lea Station to Monument 6 inch

sample 156654 continued ...

			\mathbf{RL}					
Parameter	Flag		Result		Units	D	lilution	RL
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units	D	lilution	RL
GRO			8.26		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T	FT)		1.06	mg/Kg	1	1.00	106	75 - 117.2
4-Bromofluorobenz	ene (4-BFB)		1.08	mg/Kg	1	1.00	108	66 - 142.8

Sample: 156655 - S. Wall-12

Analysis: QC Batch: Prep Batch:	BTEX 47537 40859		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-16 2008-04-16		Prep Me Analyze Prepare	d By: DC
			RI	5				
Parameter	Fla	ıg	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)		0.974	mg/Kg	1	1.00	97	82.9 - 125.1
4-Bromofluor	obenzene (4-BFB)		0.979	mg/Kg	1	1.00	98	48.9 - 160.4

Sample: 156655 - S. Wall-12

Analysis: QC Batch: Prep Batch:	TPH DRO 47425 40777		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 8 2008-04 2008-04	-14	Analyz	fethod: zed By: zed By:	
Parameter	FL		RL Result		Unit	ta	Dilution		זמ
	Fl	<u>*8</u>					Dilution		\underline{RL}
DRO			<50.0		mg/K	g	1		50.0
C		Demilt	TT	יונם	· ·	Spike	Percent	Reco	•
Surrogate	Flag	Result	Units	Dilu	tion	Amount	Recovery	Lin	nits
n-Triacontan	e	109	mg/Kg	1		100	109	10 - 2	250.4

Sample: 156655 - S. Wall-12

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	47538	Date Analyzed:	2008-04-16	Analyzed By:	DC
Prep Batch:	40859	Sample Preparation:	2008-04-16	Prepared By:	DC

Report Date: April Lea Station to Mon			Work Order tation to M	r: 8041131 onument 6	inch		umber: 11 of 2. ea County, NM
		RL					
Parameter	Flag	Result		Units		Dilution	RL
GRO		<1.00		mg/Kg		1	1.00
	hannad 201 Stradenae						
Guuramete	Flor	Dogult	Unite	Dilution	Spik		Recovery
Surrogate Triffuorotoluene (TF	Flag	Result 1.04	Units mg/Kg	Dilution 1	1.00 Amou	<u></u>	Limits 75 - 117.2
4-Bromofluorobenze		1.04 1.06	mg/Kg	1	1.00		66 - 142.8
Method Blank (1)) QC Batch: 47425						
QC Batch: 47425		Date Ana	lyzed: 20	008-04-14		Anal	yzed By: LD
Prep Batch: 40777		QC Prepa		008-04-14			ared By: LD
						1	
	~~~		MDL				
Parameter	Flag		Result			Units	RL
DRO			<15.8		n	ng/Kg	50
					Spike	Percent	Recovery
Surrogate	Flag Result	Units	Dilut	ion A	Amount	Recovery	Limits
Juitogave	1 10A						
n-Triacontane	104	mg/Kg	1		100	104	30.9 - 146.4
n-Triacontane Method Blank (1) QC Batch: 47427	104 ) QC Batch: 47427	-	1 lyzed: 20	008-04-14 008-04-14	100	104 Anal	30.9 - 146.4 yzed By: LD ared By: LD
n-Triacontane Method Blank (1) QC Batch: 47427	104 ) QC Batch: 47427	mg/Kg Date Ana	1 lyzed: 20	008-04-14	100	104 Anal	yzed By: LD
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter	104 ) QC Batch: 47427	mg/Kg Date Ana	1 lyzed: 20 aration: 20 MDL Result	008-04-14		104 Anal Prep. Units	yzed By: LD ared By: LD RL
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter	104 ) QC Batch: 47427	mg/Kg Date Ana	1 lyzed: 20 aration: 20 MDL	008-04-14		104 Anal Prep	yzed By: LD ared By: LD
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO	104 ) QC Batch: 47427 Flag	mg/Kg Date Ana QC Prepa	1 lyzed: 20 aration: 20 MDL Result <15.8	008-04-14 008-04-14	Spike	104 Anal Prep. Units ig/Kg Percent	yzed By: LD ared By: LD RL 50 Recovery
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate	104 ) QC Batch: 47427 Flag Flag Result	mg/Kg Date Ana QC Prepa Units	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut	008-04-14 008-04-14	n Spike Amount	104 Anal Prep. Units ng/Kg Percent Recovery	yzed By: LD ared By: LD RL 50 Recovery Limits
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate	104 ) QC Batch: 47427 Flag	mg/Kg Date Ana QC Prepa	1 lyzed: 20 aration: 20 MDL Result <15.8	008-04-14 008-04-14	Spike	104 Anal Prep. Units ig/Kg Percent	yzed By: LD ared By: LD RL 50 Recovery
n-Triacontane Method Blank (1) QC Batch: 47427	104           QC Batch: 47427           Flag           Flag           142	mg/Kg Date Ana QC Prepa Units	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut	008-04-14 008-04-14	n Spike Amount	104 Anal Prep. Units ng/Kg Percent Recovery	yzed By: LD ared By: LD RL 50 Recovery Limits
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1)	104           QC Batch: 47427           Flag           Flag           142	mg/Kg Date Ana QC Prepa Units mg/Kg	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1	008-04-14 008-04-14	n Spike Amount	104 Anal Prep. Units ng/Kg Percent Recovery 142	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434	104           QC Batch: 47427           Flag           Flag           QC Batch: 47434	mg/Kg Date Ana QC Prepa Units	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1	008-04-14 008-04-14	n Spike Amount	104 Anal Prep. Units ng/Kg Percent Recovery 142 Analy	yzed By: LD ared By: LD RL 50 Recovery Limits
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434 Prep Batch: 40784	104         QC Batch: 47427         Flag         Flag         Result         142         QC Batch: 47434	mg/Kg Date Ana QC Prepa Units mg/Kg Date Ana	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1 lyzed: 20 uration: 20 MDL	008-04-14 008-04-14 ion A	n Spike Amount 100	104 Anal Prep Units ng/Kg Percent Recovery 142 Analy Prepa	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4 yzed By: DC ared By: DC
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434 Prep Batch: 40784 Parameter	104           QC Batch: 47427           Flag           Flag           QC Batch: 47434	mg/Kg Date Ana QC Prepa Units mg/Kg Date Ana	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1 lyzed: 20 uration: 20	008-04-14 008-04-14 ion A	n Spike Amount 100	104 Anal Prep Units <u>ng/Kg</u> Percent <u>Recovery</u> 142 Analy Prepa	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4 yzed By: DC
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434	104         QC Batch: 47427         Flag         Flag         Result         142         QC Batch: 47434	mg/Kg Date Ana QC Prepa Units mg/Kg Date Ana	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1 lyzed: 20 uration: 20 MDL Result	008-04-14 008-04-14 ion A	n Spike Amount 100	104 Anal Prep. Units ng/Kg Percent Recovery 142 Analy Prepa Units ng/Kg	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4 yzed By: DC ared By: DC RL
Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434 Prep Batch: 40784 Parameter GRO Surrogate	104         QC Batch: 47427         Flag         Flag         QC Batch: 47434         QC Batch: 47434         Flag         Flag	mg/Kg Date Ana QC Prepa Units mg/Kg Date Ana QC Prepa Result	1 lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1 lyzed: 20 uration: 20 MDL Result 0.808 Units	008-04-14 008-04-14 ion A	n Spike Amount 100 n Spik	104 Anal Prep. Units ng/Kg Percent Recovery 142 Analy Prepa Units ng/Kg e Percent mt Recovery	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4 yzed By: DC ared By: DC RL 1 Recovery
n-Triacontane Method Blank (1) QC Batch: 47427 Prep Batch: 40777 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 47434 Prep Batch: 40784 Parameter	104         QC Batch: 47427         Flag         Flag         QC Batch: 47434         QC Batch: 47434         Flag         Flag         T)	mg/Kg Date Ana QC Prepa Units mg/Kg Date Ana QC Prepa	lyzed: 20 aration: 20 MDL Result <15.8 Dilut 1 lyzed: 20 uration: 20 MDL Result 0.808	008-04-14 008-04-14 ion A 008-04-14 008-04-14	n Spike Amount 100 n Spik	104 Analy Prep. Units Mg/Kg Percent Recovery 142 Analy Prepa Units Mg/Kg e Percent mt Recovery 0 106	yzed By: LD ared By: LD RL 50 Recovery Limits 30.9 - 146.4 yzed By: DC ared By: DC RL 1 Recovery

Report Date: April 18, 2008 Lea Station to Monument 6 in	ch	Lea	Work Or Station to		3041131 ument 6 inc	:h		umber: 12 ea Count	
Method Blank (1) QC I	Batch: 47437								
QC Batch: 47437		Date An	alyzed:	2008-	-04-14		Anal	yzed By:	AR
Prep Batch: 40787		QC Prep	paration:	2008-	-04-14		Prepa	ared By:	AR
			MI	$\mathbf{DL}$					
Parameter	Flag		Res	sult		Uni	its		RI
Chloride			<0.5	500		mg/	Kg		2
Method Blank (1) QC I	Batch: 47491								
QC Batch: 47491		Date An	alwood	2008	-04-15		Analı	yzed By:	DC
Prep Batch: 40838			aration:		-04-15 -04-15			ared By:	DC
		-	л	MDL			-	÷	
Parameter	Flag			wiDL esult		Uni	its		RL
Benzene				0110		mg/			0.0
Toluene				0109		mg/			0.0
Ethylbenzene				0109		8/ mg/			0.0
Xylene				0331		mg/			0.0
		<b>D</b>	** •.	-		Spike	Percent	Reco	
Surrogate	Flag	Result	Units		Dilution	Amount	Recovery	Lin	
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)		0.962 0.971	mg/Kg		1 1	1.00 1.00	96 97	82.3 - 72 -	
-Dromondorobenzene (4-Dr.D)		0.571	mg/Kg	5					120
Method Blank (1) QC H	Batch: 47537								
QC Batch: 47537		Date An	•		-04-16			yzed By:	DC
Prep Batch: 40859		QC Prep	paration:	2008-	-04-16		Prepa	ared By:	DC
			Ν	MDL					
Parameter	Flag			esult		Uni			RL
Benzene				0110		mg/			0.01
Foluene				0109		mg/			0.01
Ethylbenzene				0109		mg/			0.01
Xylene			<0.0	0331		mg/	ng		0.01
Surrogate	Flag	Result	Units	r	Dilution	Spike Amount	Percent Recovery	Reco Lin	•
Irifluorotoluene (TFT)	<b>1</b> 105	0.963	mg/Kg		1	1.00	96	82.3 -	
		0.000		5	1	1.00		04.0 -	191.(

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Method Blank (1) QC Batch: 47538

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QC Batch:	47538	Date Analyzed:	2008-04-16	Analyzed By:	DC
Prep Batch:	40859	QC Preparation:	2008-04-16	Prepared By:	DC

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Parameter	Ŀ.	lag			IDL sult		TI:	-		DT
GRO	<b>F</b>	lag	· ·	-	765		Unit mg/H			RL 1
					100		mg/1	<u>чв</u>		<b>1</b>
							Spike	Percent	F	lecovery
Surrogate		Flag	Result	Uni	ts I	Dilution	Amount	Recover	y	Limits
Trifluorotoluene (TFT)			1.09	mg/l	Kg	1	1.00	109	÷	70 - 130
4-Bromofluorobenzene (4-B	FB)		1.04	mg/l	Kg	1	1.00	104	•	70 - 130
Laboratory Control Spil	ke (LC	S-1)								
QC Batch: 47425			Date A	nalyzed:	2008-04	4-14		Ana	yzed B	v: LD
Prep Batch: 40777				eparation:					ared B	-
			4011	sparation	2000 0			1105	and D	,. LD
		LCS	5			Spike	Matri	ĸ		Rec.
Param		Resu	lt	Units	Dil.	Amount	Result	t Rec.	]	limit
DRO		210	) r	ng/Kg	1 .	250	<15.8	84	27.8	- 152.1
Percent recovery is based or	n the sp	ike result.	RPD is	based on	the spike	and spike d	luplicate re	esult.		
		LCSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		225	mg/Kg		250	<15.8		7.8 - 152.1	7	20
Percent recovery is based or	the sp							• • • • • • • • • • • • • • • • • • • •		
-	LCS	LCSD			<b>F</b>	Spike	LCS	LCSD		D
	Result	Result		Units	Dil.	Amount	Rec.	Rec.		Rec. Limit
	64.3	62.8		ng/Kg	1	100	<u>64</u>	<u> </u>		- 130.4
	01.0	02.0		5/115		100	PO	0		- 150.4
Laboratory Control Spil	ke (LC	S-1)								
QC Batch: 47427				nalyzed:	2008-04				yzed By	
Prep Batch: 40777			QC Pre	eparation:	2008-04	4-14		Prep	ared By	r: LD
		LCS	2			Spike	Matriz	r.		Rec.
Param		Resu		Units	Dil.	Amount	Result	-		imit
DRO		331		ng/Kg	1	250	<15.8			- 152.1
Percent recovery is based or	n the sp							· · · · · · · · · · · · · · · · · · ·		
v	1	LCSD			Spike	Matrix	•	Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		365	mg/Kg		250	<15.8		7.8 - 152.1	10	20
Percent recovery is based or	the sp									40
					<b>F</b>		-			~
	LCS	LCSD		Traite	D:1	Spike	LCS	LCSD		Rec.
Surrogate I n-Triacontane	Result 113	Result 89.1		Units ig/Kg	Dil. 1	Amount 100	Rec. 113	Rec. 89		Limit - 130.4

Report Date: April 18, 2008 Lea Station to Monument 6 inch		Lea		Order: 804 to Monum	-	1	]		lumber: Lea Cou	14 of 2 1nty, NN
Laboratory Control Spike (LC	CS-1)									
QC Batch: 47434		Date A	nalyzed:	2008-04	-14			Ana	lyzed B	y: DC
Prep Batch: 40784			paration						pared B	
		•	-					-		
<b>D</b>			<b>T</b> T <b>P</b> .	D.1	Spike		atrix	P		Rec.
Param GRO	Resu		Units		Amour		esult	Rec.	60	Limit
	8.62		ng/Kg	1	10.0		.808	78	05	0.6 - 97.3
Percent recovery is based on the s	pike result.	RPD is	based or	n the spike	and spike	e duplicat	e result.			
	LCSD			Spike	Matri	x	$\mathbf{Re}$			RPD
Param	Result	Units	Dil.	Amount	Resul		Lin		RPD	Limi
GRO	9.29	mg/Kg		10.0	0.808		69.6 -	97.3	8	20
Percent recovery is based on the s	pike result.	RPD is	based or	n the spike	and spike	e duplicat	e result.			
	LCS	S LO	CSD			Spike	LCS	LC	SD	Rec.
Surrogate	Resu		esult	Units	Dil.	Amount	Rec.		ec.	Limit
Trifluorotoluene (TFT)	1.15		14	mg/Kg	1	1.00	115		14	70 - 130
4-Bromofluorobenzene (4-BFB)	1.01	. 1	02	mg/Kg	1	1.00	101	1(	02	70 - 130
QC Batch: 47437	,		nalyzed: paration						lyzed B pared B	
QC Batch: 47437	LC	QC Pre S	paration			se ]	Matrix			
QC Batch: 47437 Prep Batch: 40787 Param	LC	QC Pre S ılt	paration	n: 2008-04 Dil.	-14 Spik Amou	int	Result _	Prep Re	oared B	y: AR Rec. Limit
QC Batch: 47437 Prep Batch: 40787 Param Chloride	LC Rest 97.	QC Pre S ılt 4	Units mg/Kg	n: 2008-04 Dil.	-14 Spik Amou 100	int ()	Result <0.500	Prep	oared B	y: AR Rec. Limit
QC Batch: 47437 Prep Batch: 40787 Param Chloride	LC Rest 97.	QC Pre S ılt 4	Units mg/Kg	n: 2008-04 Dil.	-14 Spik Amou 100	int ()	Result <0.500	Prep Re	oared B	y: AR Rec. Limit
QC Batch: 47437 Prep Batch: 40787 Param Chloride	LC Rest 97. pike result. LCSD	QC Pre S Ilt 4 RPD is	Units mg/Kg based or	Dil. Dil. 1 n the spike Spike	-14 Spik Amou 100 and spike Matr	int ) duplicat ix	Result <0.500	Prep Re	c.	y: AR Rec.
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param	LC Resu 97. pike result. LCSD Result	QC Pre S ilt 4 RPD is Units	Units mg/Kg based or Dil.	Dil. Dil. 1 n the spike Spike Amoun	-14 Spik Amou 100 and spike Matr t Resu	int ) e duplicat ix ilt Rec	Result <0.500 e result. Re :. Lir	Prep Re 97 ec. nit	c. 7 RPD	y: AR Rec. Limit 85 - 11: RPD Limit
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the s Param Chloride	LC Resu 97. pike result. LCSD Result 101	QC Pre S ilt 4 RPD is Units mg/Kg	Units mg/Kg based or Dil. g 1	Dil. Dil. 1 n the spike Spike Amoun 100	-14 Spik Amou 100 and spike Matr t Resu <0.5	int ) duplicat ix llt Rec 00 10	Result <0.500 e result. c. Lir l 85 -	Prep Re 97 ec. nit	c.	y: AR Rec. Limit 85 - 113 RPD
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp	LCS Resu 97. pike result. LCSD Result 101 pike result.	QC Pre S ilt 4 RPD is Units mg/Kg	Units mg/Kg based or Dil. g 1	Dil. Dil. 1 n the spike Spike Amoun 100	-14 Spik Amou 100 and spike Matr t Resu <0.5	int ) duplicat ix llt Rec 00 10	Result <0.500 e result. c. Lir l 85 -	Prep Re 97 ec. nit	c. 7 RPD	y: AR Rec. Limit 85 - 11: RPD Limit
Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC	LCS Result 97. pike result. LCSD Result 101 pike result. CS-1)	QC Pre S ilt 4 RPD is Units mg/Kg RPD is	Units mg/Kg based or Dil. 5 1 based or	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike	int ) duplicat ix llt Rec 00 10	Result <0.500 e result. c. Lir l 85 -	Prep Re 97 ec. nit 115	c. RPD 3	y: AR Rec. Limit 85 - 11: RPD Limit 20
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC	LCS Result 97. pike result. LCSD Result 101 pike result. SS-1)	QC Pre S Ilt 4 RPD is Units mg/Kg RPD is Date Ar	Units mg/Kg based or Dil. 5 1 based or	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike 2008-04	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike	int ) duplicat ix llt Rec 00 10	Result <0.500 e result. c. Lir l 85 -	Prep Re 97 ec. nit 115	c. 7 RPD	y: AR Rec. Limit 85 - 11: RPD Limit 20 y: DC
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC QC Batch: 47491	LCSD Result LCSD Result 101 pike result. 2S-1)	QC Pre S Ilt 4 RPD is <u>Units</u> mg/Kg RPD is Date Ar QC Pre	Units mg/Kg based or Dil. g 1 based or nalyzed:	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike 2008-04	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike	int e duplicat fix ult Rec 00 10 e duplicat	Result <0.500 e result. Re 2. Lir L 85 - e result.	Prep Re 97 ec. nit 115	Ared B Arec. 7 RPD 3 lyzed B bared B	y: AR Rec. Limit 85 - 11 RPD Limit 20 y: DC 7: DC
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC QC Batch: 47491	LCS Result 97. pike result. LCSD Result 101 pike result. SS-1)	QC Pre S Ilt 4 RPD is <u>Units</u> mg/Kg RPD is Date Ar QC Pre	Units mg/Kg based or Dil. g 1 based or nalyzed:	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike 2008-04	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike	int ) duplicat ix llt Rec 00 10	Result <0.500 e result. c. Lir b 85 - e result.	Prep Re 97 ec. nit 115	RPD 3 lyzed B pared B	y: AR Rec. Limit 85 - 115 RPD Limit 20 y: DC
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC QC Batch: 47491 Prep Batch: 40838	LCS Result 97. 97. 97. 97. 97. 97. 97. 97. 97. 97.	QC Pre S Ilt 4 RPD is <u>Units</u> mg/Kg RPD is Date Ar QC Pre	Units mg/Kg based or Dil. g 1 based or halyzed: paration	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike 2008-04 a: 2008-04	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike	Int duplicat ix ilt Rec 00 10 duplicat	Result <0.500 e result. c. Lir b 85 - e result.	Prep Re 97 ec. nit 115 Anal Prep	Ared B Arec. 7 RPD 3 lyzed B bared B	y: AR Rec. Limit 85 - 115 RPD Limit 20 y: DC 7: DC Rec.
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC QC Batch: 47491 Prep Batch: 40838 Param Benzene Toluene	LCS Result pike result. LCSD Result 101 pike result. CS-1) LCS Result 0.995 1.01	QC Pre S Ilt 4 RPD is Units mg/Kg RPD is Date Ar QC Pre t t m m	Units mg/Kg based or Dil. g 1 based or halyzed: paration Jnits g/Kg g/Kg	2008-04 Dil. 1 n the spike Spike Amoun 100 n the spike 2008-04 a: 2008-04 bil. 1 1	-14 Spik Amou 100 and spike Matr   t   cos   and spike   -15   -15   -15   Spike   Amount   1.00   1.00	Int duplicat rix ult Rec 00 10 e duplicat duplicat Ma Res <0.0 <0.0	Result <0.500 e result. Re 2. Lir l 85 - e result. e result.	Prep Re 97 ec. nit 115 Anal Prep Rec. 100 101	Ared B Arec. 7 RPD 3 lyzed B bared B 72.1 71.6	y: AR Rec. Limit 85 - 118 RPD Limit 20 y: DC y: DC y: DC C: DC Rec. Limit 7 - 129.8 5 - 129.6
QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp Laboratory Control Spike (LC QC Batch: 47491 Prep Batch: 40838 Param Benzene	LCS Result pike result. LCSD Result 101 pike result. CS-1) LCS Result 0.995	QC Pre S Ilt 4 RPD is Units mg/Kg RPD is RPD is Date Ar QC Pre t t u m m	Units mg/Kg based or Dil. g 1 based or halyzed: paration Jnits g/Kg	2008-04 Dil. 1 a the spike Spike Amoun 100 a the spike 2008-04 a: 2008-04 bil. 1	-14 Spik Amou 100 and spike Matr t Resu <0.5 and spike -15 -15 -15 Spike Amount 1.00	Int e duplicat rix llt Rec 00 10 e duplicat Ma Rec <0.0	Result <0.500 e result. Re 2. Lir l 85 - e result. e result.	Prep Re 97 ec. nit 115 Anal Prep Rec. 100	Arc. 7 RPD 3 lyzed By bared By 72.7 71.6 70.8	y: AR Rec. Limit 85 - 118 RPD Limit 20 y: DC y: DC y: DC Rec. Limit 7 - 129.8

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Work Order: 8041131 Lea Station to Monument 6 inch

Param	LCSD Result	' Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.936	mg/Kg	1	1.00	< 0.0110	94	72.7 - 129.8	6	20
Toluene	0.949	mg/Kg	1	1.00	< 0.0109	95	71.6 - 129.6	6	20
Ethylbenzene	0.966	mg/Kg	1	1.00	< 0.0109	97	70.8 - 129.7	5	20
Xylene	2.94	mg/Kg	1	3.00	< 0.0331	98	70.9 - 129.4	6	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	$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.975	0.961	mg/Kg	1	1.00	98	96	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	0.982	0.975	mg/Kg	1	1.00	98	98	73.8 - 122.4

#### Laboratory Control Spike (LCS-1)

QC Batch:	47537	Date Analyzed:	2008-04-16	Analyzed By:	DC
Prep Batch:	40859	QC Preparation:	2008-04-16	Prepared By:	$\mathbf{DC}$

D	LCS	<b>TT</b> •,	<b>D</b> '1	Spike	Matrix	D	Rec.
Param	Result	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	Limit
Benzene	0.970	mg/Kg	1	1.00	< 0.0110	97	72.7 - 129.8
Toluene	0.980	mg/Kg	1	1.00	< 0.0109	98	71.6 - 129.6
Ethylbenzene	0.987	mg/Kg	1	1.00	< 0.0109	99	70.8 - 129.7
Xylene	3.00	mg/Kg	1	3.00	< 0.0331	100	70.9 - 129.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	Limit
Benzene	1.00	mg/Kg	1	1.00	< 0.0110	100	72.7 - 129.8	3	20
Toluene	1.02	mg/Kg	1	1.00	< 0.0109	102	71.6 - 129.6	4	20
Ethylbenzene	1.03	mg/Kg	1	1.00	< 0.0109	103	70.8 - 129.7	4	20
Xylene	3.14	mg/Kg	1	3.00	< 0.0331	105	70.9 - 129.4	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.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	0.959	0.972	mg/Kg	1	1.00	96	97	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	0.890	0.953	mg/Kg	1	1.00	89	95	73.8 - 122.4

#### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	47538 40859		Analyzed: Preparation:	2008-04 2008-04	_			ed By: DC
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		8.97	mg/Kg	1	10.0	0.765	82	69.6 - 97.3

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

							- ····	n Adalaa		<u></u>
Param		$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Units		Spike mount	Matrix Result	Rec.	Rec. Limi		RP PD Lim
GRO		9.22	mg/Kg	1	10.0	0.765	84	69.6 - 9	7.3 3	3 20
Percent recovery is based	l on the sp	ike result. I	RPD is bas	sed on the	e spike a	and spike (	luplicate	result.	-	
		LCS	LCS	n			Spike	LCS	LCSD	Rec.
Surrogate		Result			its		mount	Rec.	Rec.	Limi
Trifluorotoluene (TFT)		1.14	1.15			$\frac{21}{1}$	1.00	114	115	70 - 13
4-Bromofluorobenzene (4	-BFB)	1.08	1.08			1	1.00	108	108	70 - 13
Matrix Spike (MS-1)	Spiked	Sample: 156	674							
QC Batch: 47425		]	Date Anal	yzed: 2	008-04-	14			Analyze	d By: LI
Prep Batch: 40777			QC Prepa	ration: 2	008-04-	14			Prepare	
		MS				Spike	Ма	trix		Rec.
Param		Result			Dil.	Amount			Rec.	Limit
DRO		412	mg	/Kg	1	250	352	2.89	24	18 - 179
Percent recovery is based	l on the sp	ike result. H	RPD is bas	sed on the	e spike a	and spike o	luplicate	result.		
		MSD		9	Spike	Matrix		Rec		RP
Param		Result	Units		mount	Result	Rec.	Limi		
DRO		416	mg/Kg	1	250	352.89	25	18 - 17		
Percent recovery is based	l on the sp	ike result. F	RPD is bas	ed on the	e spike a	and spike o	luplicate	result.		
	MS	MSD				C::l.c	- \ \ \	с т	VCD	Dee
Surrogate	Result	Result	Uni	te 1	Dil.	Spike Amount	M Re		MSD Rec.	Rec. Limit
n-Triacontane	87.3	97.6	mg/		<u>1</u>	100			98	34.1 - 15
		0 1 170	<del>-</del>					· · · · · · · · · · · · · · · · · · ·		
Matrix Spike (MS-1)	Spiked	Sample: 156								
_ , ,			Date Anal QC Prepa		008-04-					d By: LI d By: LI
QC Batch: 47427			JU FIEDA	ation: z	000-04-	14			Frepareo	I BY: LI
QC Batch: 47427		(	V	· ·	000 0 -					
QC Batch: 47427			<b>.</b>	•		Cm:1-0	Ма			Dee
QC Batch: 47427 Prep Batch: 40777		MS				Spike Amount	Ma		Bog	Rec.
QC Batch: 47427 Prep Batch: 40777 Param		MS Result	: Un	its	Dil.	Amount	Res	sult	Rec.	Limit
QC Batch: 47427 Prep Batch: 40777 Param DRO	on the sp	MS Result 292	: Un mg/	its 'Kg	Dil.	Amount 250	Res <1	5.8	Rec.	
QC Batch: 47427 Prep Batch: 40777 Param DRO	on the sp	MS Result 292 ike result. F	: Un mg/	its Kg ed on the	Dil. 1 spike a	Amount 250 and spike o	Res <1	sult 5.8 result.	117	Limit 18 - 179
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based	on the sp	MS Result 292 ike result. F MSD	t Un mg/ TPD is bas	its /Kg red on the	Dil. 1 spike a Spike	Amount 250 and spike of Matrix	Res <1 luplicate	sult 5.8 result. Rec.	117	Limit 18 - 179 RP1
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based Param	on the sp	MS Result 292 ike result. F MSD Result	t Un mg/ RPD is bas Units	its Kg ied on the Dil. A	Dil. 1 spike a Spike mount	Amount 250 and spike of Matrix Result	Res <1 luplicate Rec.	sult 5.8 result. Rec. Limi	117 t RF	Limit 18 - 179 RPI PD Lim
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based Param DRO		MS Result 292 ike result. F MSD Result 248	t Un mg/ RPD is bas Units mg/Kg	its /Kg wed on the Dil. A 1	Dil. 1 spike a Spike mount 250	Amount 250 and spike of Matrix Result <15.8	Res <1 luplicate Rec. 99	sult 5.8 result. Rec. Limi 18 - 17	117 t RF	Limit 18 - 179 RPI PD Lim
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based		MS Result 292 ike result. F MSD Result 248 ike result. F	t Un mg/ RPD is bas Units mg/Kg	its /Kg wed on the Dil. A 1	Dil. 1 spike a Spike mount 250	Amount 250 and spike of Matrix Result <15.8	Res <1 luplicate Rec. 99	sult 5.8 result. Rec. Limi 18 - 17	117 t RF	Limit 18 - 179 RPI PD Lim
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based Param DRO Percent recovery is based	l on the sp MS	MS Result 292 ike result. F MSD Result 248 ike result. F MSD	t Un mg/ RPD is bas Units mg/Kg RPD is bas	its /Kg ed on the Dil. A 1 red on the	Dil. 1 spike a Spike mount 250 spike a	Amount 250 and spike of Matrix Result <15.8 and spike of Spike	Res <1 luplicate Rec. 99 luplicate M	sult 5.8 result. Rec. Limi 18 - 17 result. S I	117 t RF 9.5 1 MSD	Limit 18 - 179 PD Lim 6 20 Rec.
QC Batch: 47427 Prep Batch: 40777 Param DRO Percent recovery is based Param DRO	l on the sp	MS Result 292 ike result. F MSD Result 248 ike result. F	t Un mg/ RPD is bas Units mg/Kg	its /Kg Ded on the Dil. A 1 red on the ts 1	Dil. 1 spike a Spike mount 250	Amount 250 and spike of Matrix Result <15.8 and spike of	Res <1 luplicate Rec. 99 luplicate M	sult 5.8 result. Limi 18 - 17 result. S I c.	117 t RF 9.5 1	Limit 18 - 179 PD Lim 6 20

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Report Date: April 18, 2008 Lea Station to Monument 6 inch		Lea		Order: 804 to Monum		4 min 2			umber: Lea Cour	
Matrix Spike (MS-1) Spiked	Sample: 1	56650								
QC Batch: 47434 Prep Batch: 40784			nalyzed: eparation	2008-04 : 2008-04					yzed By ared By	
	MS	5			Spike	M	atrix		ł	Rec.
Param	Resu		Units	Dil.	Amount	$\mathbf{R}\epsilon$	$\mathbf{sult}$	Rec.		imit
GRO	11.6	3 I	ng/Kg	1	10.0	<(	).171	116	22.3	- 134.6
Percent recovery is based on the sp	pike result.	RPD is	based or	the spike	and spike	duplica	te result	•		
	MSD			Spike	Matrix		$\mathbf{R}$	ec.		RPD
Param	Result	Units	Dil.	Amount	$\operatorname{Result}$	Rec.	$\operatorname{Lin}$	mit	RPD	Limit
GRO	12.7	mg/Kg	1	10.0	< 0.171	127	22.3 -	134.6	9	20
Surrogate	MS Resu		ISD			pike	MS	MSD		Rec.
	ricou	п пе	esult	Units	Dil. An	$\operatorname{nount}$	Rec.	Rec.	L	$\operatorname{imit}$
Trifluorotoluene (TFT)	0.97				$\frac{D_{1}}{1}$ And $\frac{D_{2}}{1}$	nount	Rec. 97	Rec. 90		$\frac{1000}{-113.1}$
		4 0.	902 r	Units ng/Kg ng/Kg					68.4	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	0.97	4 0. 7 1 56672 Date A	902 r	ng/Kg ng/Kg 2008-04	1 1 -14	1	97	90 102 Anal	68.4	- 113.1 - 134.3 : AR
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) <b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47437 Prep Batch: 40787	0.97 1.07 Sample: 15	4 0. 7 1 56672 Date A QC Pre	902 r. .02 r nalyzed: eparation	ng/Kg ng/Kg 2008-04 : 2008-04	1 1 -14 -14 Spike	1	97 107 Matrix	90 102 Anal Prep	68.4 66.7 yzed By ared By:	- 113.1 - 134.3 : AR : AR : AR Rec.
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param	0.97 1.07 Sample: 15 MS Resu	4 0. 7 1 56672 Date A QC Pre	902 r. .02 r nalyzed: eparation Units	ng/Kg ng/Kg 2008-04 : 2008-04 Dil.	1 1 -14 -14 Spike Amoun	1 1	97 107 Matrix Result	90 102 Anal Prep Rec	68.4 66.7 yzed By ared By:	- 113.1 - 134.3 : AR : AR Rec. Limit
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) <b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride	0.97 1.07 Sample: 18 MS Rest 623	4 0. 7 1 56672 Date A QC Pro 5 ult 50	902 r. .02 r nalyzed: eparation Units mg/Kg	ng/Kg ng/Kg 2008-04 : 2008-04 Dil. 50	1 1 -14 -14 Spike Amoun 5000	1 1 t	97 107 Matrix Result 1191.45	90 102 Anal Prep Rec 101	68.4 66.7 yzed By ared By:	- 113.1 - 134.3 : AR : AR : AR Rec.
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param	0.97 1.07 Sample: 15 MS Rest 623 pike result.	4 0. 7 1 56672 Date A QC Pro 5 ult 50	902 r. .02 r nalyzed: eparation Units mg/Kg	ng/Kg ng/Kg 2008-04 : 2008-04 Dil. 50 the spike	1 1 -14 -14 Spike Amoun 5000 and spike	1 1 t duplicat	97 107 Matrix Result 1191.45 te result.	90 102 Anal Prep Rec 101	68.4 66.7 yzed By ared By:	- 113.1 - 134.3 : AR : AR Rec. Limit 5 - 115
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) <b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp	0.97 1.07 Sample: 18 MS 623 pike result. MSD	4 0. 7 1 56672 Date A QC Pro 5 ult 60 RPD is	902 r. .02 r. nalyzed: eparation Units mg/Kg based on	ng/Kg 2008-04 : 2008-04 Dil. 50 the spike Spike	1 1 -14 -14 Spike Amoun 5000 and spike Matrix	t duplicat	97 107 Matrix Result 1191.45 te result. F	90 102 Anal Prep Rec 101	68.4 66.7 yzed By ared By: c. L 8	- 113.1 - 134.3 : AR : AR Rec. Limit 5 - 115 RPD
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param	0.97 1.07 Sample: 18 MS Dike result. MSD Result	4 0. 7 1 566672 Date A QC Pro Solt 60 RPD is Units	902 r. .02 r. nalyzed: eparation Units mg/Kg based on Dil.	ng/Kg 2008-04 : 2008-04 Dil. 50 the spike Amount	1 1 -14 -14 Spike Amoun 5000 and spike Matrix 5, Result	t duplicat c t Re	97 107 Matrix Result 1191.45 te result. Fc. L	90 102 Anal Prep Rec 101 Rec. imit	68.4 66.7 yzed By ared By:  L 8 RPD	- 113.1 - 134.3 : AR : AR : AR Limit 5 - 115 RPD Limit
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride	0.97 1.07 Sample: 15 MS pike result. MSD Result 6320	4 0. 7 1 566672 Date A QC Pre 5 ult 60 RPD is mg/Kg	902 r .02 r nalyzed: eparation Units mg/Kg based on Dil. g 50	ng/Kg ng/Kg 2008-04 : 2008-04 Dil. 50 the spike Spike Amount 5000	1 1 -14 -14 Spike Amoun 5000 and spike Matrix Result 1191.4	t duplicat c 5 10	97 107 Matrix Result 1191.45 te result. E result. 2 85	90 102 Anal Prep Rec 101 Rec. imit - 115	68.4 66.7 yzed By ared By: c. L 8	- 113.1 - 134.3 : AR : AR : AR Limit 5 - 115 RPD
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp	0.97 1.07 Sample: 15 MS pike result. MSD Result 6320	4 0. 7 1 56672 Date A QC Pre Sult 60 RPD is Mg/Kg RPD is	902 r .02 r nalyzed: eparation Units mg/Kg based on Dil. g 50	ng/Kg ng/Kg 2008-04 : 2008-04 Dil. 50 the spike Spike Amount 5000	1 1 -14 -14 Spike Amoun 5000 and spike Matrix Result 1191.4	t duplicat c 5 10	97 107 Matrix Result 1191.45 te result. E result. 2 85	90 102 Anal Prep Rec 101 Rec. imit - 115	68.4 66.7 yzed By ared By:  L 8 RPD	- 113.1 - 134.3 : AR : AR Rec. Limit 5 - 115 RPD Limit
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47437 Prep Batch: 40787 Param Chloride Percent recovery is based on the sp Param Chloride Percent recovery is based on the sp	0.97 1.07 Sample: 18 MS Resu 623 Dike result. MSD Result 6320 Dike result.	4 0. 7 1 56672 Date A QC Pre 5 11t 10 RPD is MRPD is MRPD is 566666	902 r .02 r nalyzed: eparation Units mg/Kg based on Dil. g 50	ng/Kg ng/Kg 2008-04 : 2008-04 Dil. 50 the spike Spike Amount 5000	1 1 -14 -14 -14 -14 -14 -14 -14 -14 -14	t duplicat c 5 10	97 107 Matrix Result 1191.45 te result. E result. 2 85	90 102 Anal Prep Rec 101 Rec. imit - 115	68.4 66.7 yzed By ared By:  L 8 RPD	- 113.1 - 134.3 : AR : AR : AR Ecc. Limit 5 - 115 RPD Limit 20

Param	${ m MS} { m Result}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.44	mg/Kg	5	5.00	0.0605	68	58.6 - 165.2
Toluene	3.59	mg/Kg	5	5.00	0.2785	66	64.2 - 153.8
Ethylbenzene	8.12	mg/Kg	5	5.00	4.3882	75	61.6 - 159.4
Xylene	15.0	mg/Kg	5	15.0	4.2229	72	64.4 - 155.3

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

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.19	mg/Kg	5	5.00	0.0605	82	58.6 - 165.2	20	20
Toluene	4.28	mg/Kg	5	5.00	0.2785	80	64.2 - 153.8	18	20
Ethylbenzene	8.76	mg/Kg	5	5.00	4.3882	87	61.6 - 159.4	8	20
Xylene	17.3	mg/Kg	5	15.0	4.2229	87	64.4 - 155.3	14	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	$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	4.84	4.86	mg/Kg	5	5	97	97	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)	6.12	6.06	mg/Kg	5	5	122	121	72 - 127.8

#### Matrix Spike (MS-1) Spiked Sample: 156652

QC Batch:	47537	Date Analyzed:	2008-04-16	Analyzed By:	DC
Prep Batch:	40859	QC Preparation:	2008-04-16	Prepared By:	$\mathbf{DC}$

Param	${ m MS}$ Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.16	mg/Kg	1	1.00	< 0.0110	116	58.6 - 165.2
Toluene	1.18	mg/Kg	1	1.00	< 0.0109	118	64.2 - 153.8
Ethylbenzene	1.22	mg/Kg	1	1.00	< 0.0109	122	61.6 - 159.4
Xylene	3.72	mg/Kg	1	3.00	< 0.0331	124	64.4 - 155.3

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.	Limit	RPD	$\mathbf{Limit}$
Benzene	1.15	mg/Kg	1	1.00	< 0.0110	115	58.6 - 165.2	1	20
Toluene	1.16	mg/Kg	1	1.00	< 0.0109	116	64.2 - 153.8	<b>2</b>	20
Ethylbenzene	1.20	mg/Kg	1	1.00	< 0.0109	120	61.6 - 159.4	<b>2</b>	20
Xylene	3.64	mg/Kg	1	3.00	< 0.0331	121	64.4 - 155.3	2	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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.991	0.993	mg/Kg	1	1	99	99	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)	0.983	0.989	mg/Kg	1	1	98	99	72 - 127.8

#### Matrix Spike (MS-1) Spiked Sample: 156655

QC Batch: Prep Batch:	47538 40859		e Analyzed: Preparation:	2008-0 2008-0			•	vzed By: DC ared By: DC
Param		${f MS}$ Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		9.73	mg/Kg	1	10.0	< 0.171	97	22.3 - 134.6

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

	te: April 18, 5 1 to Monumer				rk Order: 804 on to Monum		nch		Lea County, NM			
-			ISD		Spike	Mat			.ec.		RPD	
Param				its Dil		Res			mit	RPD	Limit	
GRO				/Kg 1		<0.		· ···	- 134.6	1	20	
Percent rec	overy is based	d on the spike	result. RP	D is based	l on the spike	and sp	oike dupli	cate result				
			MS	MSD			Spike	MS	MSD	F	Rec.	
Surrogate			Result	Result	Units	Dil.	Amoun		Rec.		imit	
	uene (TFT)		1.02	1.01	mg/Kg	1	1	102	101	68.4	- 113.1	
4-Bromoflu	orobenzene (4	4-BFB)	1.10	1.10	mg/Kg	1	1	110	110	66.7	- 134.3	
Q. 1												
Standard QC Batch:			Dat	to Anoluga	ed: 2008-04-	14			Anal	yzed By		
QU Datui.	41420		Da	te Analyze	su. 2000-04-	14			Alla	lyzed Dy	. цр	
			CCV	's	CCVs	C	CVs	Perc	ent			
			Tru	e	Found	Per	cent	Reco	very	Ι	Date	
Param	Flag	Units	Cone		Conc.	Rec	overy	Lim		An	alyzed	
DRO		mg/Kg	250	J	288	1	15	85 -	115	200	8-04-1	
			Dat	te Analyze	ed: 2008-04-	14			Anal	yzed By	: LD	
QC Batch: Param		Units mg/Kg	Dat CCV True Cone 250	rs e c.	ed: 2008-04- CCVs Found Conc. 274	CO Per Rec	CVs cent overy 10	Perc Reco Lim 85 -	ent very its	I An	Date alyzed	
Standard QC Batch: Param DRO Standard	47425 Flag (ICV-1)		CCV Trua Cond 250	78 e 	CCVs Found Conc. 274	CO Per Rec 1	cent overy	Reco Lim	ent very its 115	I <u>An</u> 200	Date alyzed 8-04-14	
QC Batch: Param DRO Standard	47425 Flag (ICV-1)		CCV Trua Cond 250	78 e 	CCVs Found Conc.	CO Per Rec 1	cent overy	Reco Lim	ent very its 115	I An	Date alyzed 8-04-14	
QC Batch: Param DRO Standard	47425 Flag (ICV-1)		CCV True Cond 250 Dat	7s e c. ) te Analyze s	CCVs Found Conc. 274 ed: 2008-04- ICVs	CC Per Rec 1 14	ccent overy 10 CVs	Reco Lim 85 - Perc	ent very its 115 Anal ent	I An 2000 yzed By	Date alyzed 8-04-14 : LD	
QC Batch: Param DRO Standard QC Batch:	47425 Flag (ICV-1) 47427	mg/Kg	CCV True 250 Dat ICV True	7s e c. te Analyze s e	CCVs Found Conc. 274 ed: 2008-04- ICVs Found	CC Per Rec 1 14	ccent overy 10 2Vs ccent	Reco Lim 85 - Perc Reco	ent very its 115 Anal ent very	I An 2000 yzed By I	Date alyzed 8-04-14 : LD Date	
QC Batch: Param DRO Standard QC Batch: Param	47425 Flag (ICV-1)	mg/Kg Units	CCV True 250 Dat ICV True Cond	7s e c. te Analyze s e c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc.	CC Per Rec 1 14 14 IC Per Rec	ccent overy 10 2Vs ccent overy	Reco Lim 85 - Perc Reco Lim	ent very its 115 Anal ent very its	I An 2000 yzed By I An	Date alyzed 8-04-14 : LD Date alyzed	
QC Batch: Param DRO	47425 Flag (ICV-1) 47427	mg/Kg	CCV True 250 Dat ICV True	7s e c. te Analyze s e c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found	CC Per Rec 1 14 14 IC Per Rec	ccent overy 10 2Vs ccent	Reco Lim 85 - Perc Reco	ent very its 115 Anal ent very its	I An 2000 yzed By I An	Date alyzed 8-04-14 : LD Date	
QC Batch: Param DRO Standard QC Batch: Param DRO Standard	47425 Flag (ICV-1) 47427 Flag (CCV-1)	mg/Kg Units	CCV True 250 Dat ICV True Cond 250	7s e c. te Analyze s e c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc. 284	CC Per Rec 1 14 14 IC Per Rec 1	ccent overy 10 2Vs ccent overy	Reco Lim 85 - Perc Reco Lim	ent very its 115 Anal ent very its 115	I An 2000 yzed By I An 2000	Date alyzed 8-04-14 : LD Date alyzed 8-04-14	
QC Batch: Param DRO Standard QC Batch: Param DRO	47425 Flag (ICV-1) 47427 Flag (CCV-1)	mg/Kg Units	CCV True 250 Dat ICV True Cond 250 Dat	7s e c. te Analyze s e c. 	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc. 284 ed: 2008-04-	CC Per Rec 1 14 14 14 14	Cont overy 10 CVs cent overy 14	Reco Lim 85 - Perc Reco Lim	ent very its 115 Anal ent very its 115	I An 2000 yzed By I An	Date alyzed 8-04-14 : LD Date alyzed 8-04-14	
QC Batch: Param DRO Standard QC Batch: Param DRO Standard	47425 Flag (ICV-1) 47427 Flag (CCV-1)	mg/Kg Units	CCV True 250 Dat ICV True Cond 250 Dat	7s e c. te Analyze s e c. c. c. c. c. c. c. c. c. c. c. c. c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc. 284 ed: 2008-04- CCVs	CC Per Rec 1 14 14 IC Per Rec 1 14	CVs CVs CVs cent overy 14 CVs	Reco Lim 85 - Perc Reco Lim 85 - Perc	ent very its 115 Anal ent very its 115 Anal ent	I 2000 yzed By I <u>An</u> 2000 yzed By	Date alyzed 8-04-14 : LD Date alyzed 8-04-14 : LD	
QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch:	47425 Flag (ICV-1) 47427 Flag (CCV-1) 47427	mg/Kg Units mg/Kg	CCV True 250 Dat ICV True Cond 250 Dat CCV True	7s e c. te Analyze s e c. c. c. c. c. c. c. c. c. c. c. c. c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc. 284 ed: 2008-04- CCVs Found	CC Per Rec 1 14 14 14 14 14 CC Per Per Per Per Per Per Per Recc	CVs CVs CVs CVs CVs CVs CVs cent	Reco Lim 85 - Perc Reco Lim 85 - Perc Reco	ent very its 115 Anal ent very its 115 Anal ent very	I 2000 yzed By I <u>An.</u> 2000 yzed By	Date alyzed 8-04-14 : LD Date alyzed 8-04-14 : LD Date	
QC Batch: Param DRO Standard QC Batch: Param DRO Standard	47425 Flag (ICV-1) 47427 Flag (CCV-1)	mg/Kg Units	CCV True 250 Dat ICV True Cond 250 Dat	7s e c. te Analyze s e c. ze Analyze 7s e c.	CCVs Found Conc. 274 ed: 2008-04- ICVs Found Conc. 284 ed: 2008-04- CCVs	CC Per Rec 1 14 14 14 14 14 14 CC Per Rec	CVs CVs CVs cent overy 14 CVs	Reco Lim 85 - Perc Reco Lim 85 - Perc	ent very its 115 Anal ent very its 115 Anal ent very its	I 2000 yzed By I An. 2000 yzed By I An.	Date alyzed 8-04-14 : LD Date alyzed 8-04-14 : LD	

QC Batch: 47434

Date Analyzed: 2008-04-14

Analyzed By: DC

	te: April 18, 200 n to Monument			Vork Order: 804 ation to Monum			umber: 20 of 2 ea County, NM
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.14	114	85 - 115	2008-04-14
Standard	(CCV-1)						
QC Batch:	47434		Date Analy	/zed: 2008-04-	-14	Anal	yzed By: DC
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.12	112	85 - 115	2008-04-14
Standard	(ICV-1)						
QC Batch:	47437		Date Analy	vzed: 2008-04-	-14	Anal	yzed By: AR
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery 98	Limits 85 - 115	Analyzed 2008-04-14
Chloride Standard	(CCV-1)	mg/Kg	100	98.6		83 - 113	2000-04-14
Standard	. ,	mg/ Kg	Date Analy	/zed: 2008-04-	14	Anal	yzed By: AR
·	. ,	mg/ Kg					
Standard QC Batch:	. ,	mg/Kg	Date Analy CCVs	vzed: 2008-04- CCVs	14 CCVs	Anal Percent	yzed By: AR
Standard QC Batch: Param	47437		Date Analy CCVs True	vzed: 2008-04- CCVs Found	-14 CCVs Percent	Anal Percent Recovery	yzed By: AR Date Analyzed
Standard	47437 Flag	Units	Date Analy CCVs True Conc.	zed: 2008-04- CCVs Found Conc.	-14 CCVs Percent Recovery	Anal Percent Recovery Limits	yzed By: AR Date
Standard QC Batch: Param Chloride	47437 Flag (ICV-1)	Units	Date Analy CCVs True Conc.	vzed: 2008-04- CCVs Found Conc. 101	-14 CCVs Percent Recovery 101	Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed
Standard QC Batch: Param Chloride Standard QC Batch:	47437 Flag (ICV-1) 47491	Units mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found	14 CCVs Percent Recovery 101 15 ICVs Percent	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date
Standard QC Batch: Param Chloride Standard QC Batch: Param	47437 Flag (ICV-1)	Units mg/Kg Units	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc.	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc.	14 CCVs Percent Recovery 101 15 15 ICVs Percent Recovery	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed
Standard QC Batch: Param Chloride Standard QC Batch: Param Benzene	47437 Flag (ICV-1) 47491	Units mg/Kg Units mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc. 0.100	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc. 0.0924	14 CCVs Percent Recovery 101 15 15 ICVs Percent Recovery 92	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed 2008-04-15
Standard QC Batch: Param Chloride Standard QC Batch: Param Benzene Toluene	47437 Flag (ICV-1) 47491 Flag	Units mg/Kg Units mg/Kg mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc. 0.100 0.100	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc. 0.0924 0.0940	14 CCVs Percent Recovery 101 15 15 ICVs Percent Recovery 92 94	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 85 - 115	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed 2008-04-13 2008-04-13
Standard QC Batch: Param Chloride Standard QC Batch: Param Benzene Toluene Ethylbenzen	47437 Flag (ICV-1) 47491 Flag	Units mg/Kg Units mg/Kg mg/Kg mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc. 0.100	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc. 0.0924	14 CCVs Percent Recovery 101 15 15 ICVs Percent Recovery 92	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed 2008-04-13 2008-04-13 2008-04-13
Standard QC Batch: Param Chloride Standard	47437 Flag (ICV-1) 47491 Flag	Units mg/Kg Units mg/Kg mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc. 0.100 0.100 0.100	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc. 0.0924 0.0940 0.0966	14 CCVs Percent Recovery 101 15 15 ICVs Percent Recovery 92 94 97	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 85 - 115	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed 2008-04-15
Standard QC Batch: Param Chloride Standard QC Batch: Param Benzene Toluene Ethylbenzen Xylene	47437 Flag (ICV-1) 47491 Flag ne (CCV-1)	Units mg/Kg Units mg/Kg mg/Kg mg/Kg	Date Analy CCVs True Conc. 100 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300	vzed: 2008-04- CCVs Found Conc. 101 vzed: 2008-04- ICVs Found Conc. 0.0924 0.0940 0.0966	14 CCVs Percent Recovery 101 15 ICVs Percent Recovery 92 94 97 98	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	yzed By: AR Date Analyzed 2008-04-14 yzed By: DC Date Analyzed 2008-04-13 2008-04-13 2008-04-13

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Work Order: 8041131 Lea Station to Monument 6 inch Page Number: 21 of 21 Lea County, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0991	99	85 - 115	2008-04-15
Toluene		mg/Kg	0.100	0.0998	100	85 - 115	2008-04-15
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2008-04-15
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2008-04-15

#### Standard (CCV-1)

QC Batch: 47537			Date Analyzed: 2008-04-16			Analyzed By: DC		
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Benzene		mg/Kg	0.100	0.0995	100	85 - 115	2008-04-16	
Toluene		mg/Kg	0.100	0.100	100	85 - 115	2008-04-16	
Ethylbenzene		mg/Kg	0.100	0.101	101	85 - 115	2008-04-16	
Xylene		mg/Kg	0.300	0.310	103	85 - 115	2008-04-16	

## Standard (CCV-2)

QC Batch: 47537			Date Analyzed: 2008-04-16			Analyzed By: DC		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Benzene		mg/Kg	0.100	0.111	111	85 - 115	2008-04-16	
Toluene		mg/Kg	0.100	0.113	113	85 - 115	2008-04-16	
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-04-16	
Xylene	1	mg/Kg	0.300	0.349	116	85 - 115	2008-04-16	

#### Standard (CCV-1)

QC Batch:	47538		Date Ana	alyzed: 2008-0	4-16	Anal	lyzed By: DC
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
D	ות	<b>T</b> T				•	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2008-04-16

#### Standard (CCV-2)

QC Batch	: 47538		Date Ana	alyzed: 2008-0	Analyzed By: DC		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.12	112	85 - 115	2008-04-16

 1 Xylene outside of control limits on CCV. CCV component average is .1144 which is within acceptable range. This is acceptable by Method 8000.

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TraceAnalysis.com       Mouth       email: lab@traceanalysis.com       email: lab@traceanalysis.com       Mouth       Mouth       Reel, City, Zip)       Reel, City, Zip)       Mouth       Mouth       Reel, City, Zip)       Reel, City, Zip)       Mouth       Reel, City, Zip)       Mouth       Reel, City, Zip)       Mouth       PLANS       Reel, City, Zip)       Mouth       Reel, City, Zip)       Mouth       Matter       Mater </td <td>LAB Urder ID</td> <td>6701 6701</td> <td>Phone #:</td> <td>Fax #:</td> <td>E-mail:</td> <td>rrouns sville @ novatraini</td> <td></td> <td>roject Name: サン MOAM ハビン</td> <td>ampler Sig</td> <td>, , ,</td> <td>ICE MªOH H⁵20⁴ HNO³ HCI HCI ZTNDGE VIK ZOIT</td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>: Company:</td> <td>1 X TEASE 4</td> <td></td> <td>Company:</td>	LAB Urder ID	6701 6701	Phone #:	Fax #:	E-mail:	rrouns sville @ novatraini		roject Name: サン MOAM ハビン	ampler Sig	, , ,	ICE MªOH H ⁵ 20 ⁴ HNO ³ HCI HCI ZTNDGE VIK ZOIT	*						X			: Company:	1 X TEASE 4		Company:
		. <u>F</u>	Alout	Street, City, Zip)		KOUNSAVILLE		7	2	SE	# CONTAINEF	- 11 - 1	- 11' 1	- 2'	FLR-81 1	. FLR-10' 1	FLR-15' 1	. FLR-15' 1	1 ,2/-		Company Date: Time:	Commence Hin/18 1620		Company: Date: Time:



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 Elebsick, Texas 79922

 200 East Sunset Road, Suite 4
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 6015 Harris Parkway, Suite 110
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Report Date: April 22, 2008

8041721

Work Order:

## Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

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Project Location:Lea County, NMProject Name:Lea Station to Monument 6 inchProject Number:Lea Station to Monument 6 inchSRS#:SRS# 2001-11056

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

			$\mathbf{Date}$	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
157064	N. Floor, 15'	soil	2008-04-16	13:34	2008-04-17
157065	S.E. Wall, 10'	soil	2008-04-16	13:37	2008-04-17
157066	S. Floor, 15'	soil	2008-04-16	13:40	2008-04-17
157067	S.W. Wall, 9'	soil	2008-04-16	13:43	2008-04-17
157068	S. Wall, 12'	soil	2008-04-16	13:46	2008-04-17
157069	S. Exc. E. Wall, 6'	soil	2008-04-16	13:51	2008-04-17
157070	S. Exc. S. Wall, 5'	soil	2008-04-16	13:53	2008-04-17
157071	S. Exc. N. Wall, 6'	soil	2008-04-16	13:56	2008-04-17
157072	S. Exc. W. Wall, 6'	soil	2008-04-16	14:02	2008-04-17
157073	S. Exc. Floor, 8'	soil	2008-04-16	13:58	2008-04-17

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

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

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# Analytical Report

Sample:	157064 -	N.	Floor.	15'
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Analysis: BTEX QC Batch: 47610 Prep Batch: 40929		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Preparee	d By: AG
		RI					
	Flag	Resul		Units		Dilution	RL
Benzene		< 0.050		mg/Kg		5	0.0100
Toluene		< 0.050	0	mg/Kg		5	0.0100
Ethylbenzene		< 0.050	D	mg/Kg		5	0.0100
Xylene		< 0.050	0	mg/Kg		5	0.0100
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.36	mg/Kg	5	5.00	107	82.9 - 125.1
4-Bromofluorobenzene (4-Bl	FB)	5.36	mg/Kg	5	5.00	107	48.9 - 160.4
Sample: 157064 - N. Flo Analysis: TPH DRO QC Batch: 47569 Prep Batch: 40906	oor, 15'	Date Ana	l Method: lyzed: reparation:	Mod. 8015B 2008-04-17 2008-04-17		Analy	Method: N/A zed By: AG red By: AG

Parameter	Fla	g	$\operatorname{RL}$ Result	Uni	its	Dilution	$\mathbf{RL}$
DRO			<50.0	mg/I	Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Tiag	123	mg/Kg	1	100	123	10 - 250.4

#### Sample: 157064 - N. Floor, 15'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Date Anal	al Method:S 8015BPrep Metalyzed:2008-04-19AnalyzedPreparation:2008-04-18Prepared			By: AG	
			$\mathbf{RL}$					
Parameter	$\mathbf{F}$ lag		$\mathbf{Result}$		$\mathbf{Units}$	D	ilution	$\mathbf{RL}$
GRO			15.9		mg/Kg	·····	5	1.00
Sumomoto		Flow	Result	Units	Dilution	Spike Amount	Percent	Recovery Limits
Surrogate		Flag					Recovery	
Trifluorotolu	ene (TFT)	1	5.90	mg/Kg	5	5.00	118	75 - 117.2
4-Bromofluorobenzene (4-BFB)			5.88	mg/Kg	5	5.00	118	66 - 142.8

¹High surrogate recovery due to peak interference.

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## Sample: 157065 - S.E. Wall, 10'

Analysis: QC Batch: Prep Batch:	BTEX 47610 40929			Analytical l Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Prepare	d By: AG	35
				RI						
Parameter		Flag		Resul	t ·	Units		Dilution	R	ŁL
Benzene				< 0.010	<u>)</u>	mg/Kg		1	0.010	00
Toluene				< 0.010	)	mg/Kg		1	0.010	00
Ethylbenzene				< 0.0100	)	mg/Kg		1	0.010	00
Xylene	<u> </u>			< 0.010	)	mg/Kg		1	0.010	00
							Spike	Percent	Recovery	ł
Surrogate			Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)				1.08	mg/Kg	1	1.00	108	82.9 - 125	.1
4-Bromofluorobenzene (4-BFB)		FB)		1.07	mg/Kg		1.00	107	48.9 - 160	.4

## Sample: 157065 - S.E. Wall, 10'

Analysis: QC Batch: Prep Batch:	TPH DRO 47569 40906		Analytical Me Date Analyzed Sample Prepa	d:	Mod. 8 2008-04 2008-04	-17	Prep M Analyz Prepar	N/A AG AG	
			$\mathbf{RL}$						
Parameter	Fla	۳ 5	Result		Unit	S	Dilution		$\mathbf{RL}$
DRO			<50.0		mg/K	g	1		50.0
<b>a</b>		~ •	<b>TT A</b> .			Spike	Percent		overy
Surrogate	Flag	Result	Units	Dilut	ion	Amount	Recovery	Li	mits
n-Triacontane	e	97.3	mg/Kg	1		100	97	10 -	250.4

## Sample: 157065 - S.E. Wall, 10'

Analysis:TPH GROQC Batch:47611Prep Batch:40929			Analytical Date Anal Sample Pr		S 8015B 2008-04-19 2008-04-18		nod: S 5035 By: AG By: DC	
			$\mathbf{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	0	1.16	mg/Kg	1	1.00	116	75 - 117.2
4-Bromofluorobenzene (4-BFB)			1.17	mg/Kg	1	1.00	117	66 - 142.8

Report Date: April 22, 2008	Work Order: 8041721
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch

## Sample: 157066 - S. Floor, 15'

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QC Batch:	BTEX 47610 40929		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Preparec	d By: AG
			RI	L				
Parameter	Flag		Resul	t	Units		Dilution	$\mathbf{RL}$
Benzene			< 0.010	)	mg/Kg		1	0.0100
Toluene			< 0.010	)	mg/Kg		1	0.0100
Ethylbenzene			0.0531	L	mg/Kg		1	0.0100
Xylene			0.0592	2	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluer	ne (TFT)		1.09	mg/Kg	1	1.00	109	82.9 - 125.1
4-Bromofluoro	benzene (4-BFB)		1.10	mg/Kg	1	1.00	110	48.9 - 160.4

#### Sample: 157066 - S. Floor, 15'

Analysis: QC Batch: Prep Batch:	TPH DRO 47569 40906		Analytical Me Date Analyze Sample Prepa	d: 2008-0		Analyz	Method:N/Aced By:AGed By:AG
			RL				DI
Parameter	Flag	5	Result	Ur	uits	Dilution	RL
DRO			188	mg/	Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	99.9	mg/Kg	1	100	100	10 - 250.4

## Sample: 157066 - S. Floor, 15'

Analysis: QC Batch: Brop Batch:	TPH GRO 47611 40929		Analytical Date Anal Sample Pr	yzed:	S 8015B 2008-04-19 2008-04-18		Prep Metho Analyzed B Prepared By	
Prep Batch:	40929		Sample FI	eparation.	2000-04-18		r tepateu i	By: DC
			$\mathbf{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	$\operatorname{RL}$
GRO			40.6		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.15	mg/Kg	1	1.00	115	75 - 117.2
4-Bromofluo	robenzene (4-BFB)	2	1.58	mg/Kg	1	1.00 158		66 - 142.8

²High surrogate recovery due to peak interference.

Report Date: April 22, 2008	Work Order: 8041721	Page Number:
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch	Lea Count

## 6 of 19 nty, NM

## Sample: 157067 - S.W. Wall, 9'

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Analysis:BTEXQC Batch:47610Prep Batch:40929		Date Ana	l Method: lyzed: reparation:	S 8021B 2008-04-19 2008-04-18		Prep Meth Analyzed I Prepared I	
			$\mathbf{RL}$				
Parameter F	'lag	Res	ult	Units		Dilution	$\mathbf{RL}$
Benzene		<0.0	100	mg/Kg		1	0.0100
Toluene		< 0.0	100	mg/Kg		1	0.0100
Ethylbenzene		< 0.0	100	mg/Kg		1	0.0100
Xylene		< 0.0	100	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Fla	ag Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	82.9 - 125.1
4-Bromofluorobenzene (4-BFI	3)	1.10	mg/Kg	1	1.00	110	48.9 - 160.4

## Sample: 157067 - S.W. Wall, 9'

Analysis: QC Batch: Prep Batch:	TPH DRO 47569 40906		Analytical Me Date Analyze Sample Prepa	d: 2008-0	4-17	Analyz	Method: N/A eed By: AG red By: AG
			$\mathbf{RL}$				
Parameter	Flag	5	$\mathbf{Result}$	Uni	its	Dilution	$\mathbf{RL}$
DRO			<50.0	mg/I	ζg	1	50.0
C	ורד		<b>T</b> T •	Dilution	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	107	mg/Kg	1	100	107	10 - 250.4

## Sample: 157067 - S.W. Wall, 9'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Analytical Date Anal Sample Pi		S 8015B 2008-04-19 2008-04-18	Prep Meth Analyzed E Prepared E		By: AG
Parameter	Flag		RL Result		Units	D	ilution	$\mathbf{RL}$
GRO	B		1.38		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.15	mg/Kg	1	1.00	115	75 - 117.2
4-Bromofluor	robenzene (4-BFB)		1.17	mg/Kg	1	1.00 117		66 - 142.8

Report Date: April 22, 2008Work Order: 8041721Lea Station to Monument 6 inchLea Station to Monument 6 inch

## Sample: 157068 - S. Wall, 12'

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Analysis: QC Batch: Prep Batch:	BTEX 47610 40929			Analytical M Date Analyz Sample Prep	zed:	S 8021B 2008-04-19 2008-04-18		Prep Metho Analyzed By Prepared By	
				RI	1				
Parameter	F	lag		Result	;	Units		Dilution	$\operatorname{RL}$
Benzene				< 0.0100	)	mg/Kg		1	0.0100
Toluene				0.214	Ł	mg/Kg		1	0.0100
Ethylbenzene	e			0.782	}	mg/Kg		1	0.0100
Xylene				1.06	5	mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)			1.08	mg/Kg	1	1.00	108	82.9 - 125.1
4-Bromofluor	obenzene (4-BFI	3)		1.31	mg/Kg	1	1.00	131	48.9 - 160.4

#### Sample: 157068 - S. Wall, 12'

Analysis: QC Batch: Prep Batch:	TPH DRO 47569 40906		Analytical Me Date Analyze Sample Prepa	d: 2008	. 8015B -04-17 -04-17	-	fethod: N/A ed By: AG ed By: AG
<b>n</b> .			RL	<b>.</b>	· •,		DI
Parameter	Fla	g	Result	ι	nits	Dilution	RL
DRO			491	mg	/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	<u> </u>	124	mg/Kg	1	100	124	10 - 250.4

#### Sample: 157068 - S. Wall, 12'

Analysis: QC Batch:	TPH GRO 47611		Analytical Date Anal		S 8015B 2008-04-19		Prep Metho Analyzed B	
Prep Batch:	40929		Sample Pr	reparation:	2008-04-18	Prepared E		By: DC
			$\mathbf{RL}$					
Parameter	$\mathbf{F}$ lag		Result		Units	D	ilution	$\mathbf{RL}$
GRO			151		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	$\mathbf{Units}$	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.14	mg/Kg	1	1.00	114	75 - 117.2
4-Bromofluorobenzene (4-BFB)		3	6.95	mg/Kg	1	1.00	695	66 - 142.8

³High surrogate recovery due to peak interference.

## Sample: 157069 - S. Exc. E. Wall, 6'

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Analysis:BTEXQC Batch:47610Prep Batch:40929	_		Analytical M Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Metho Analyzed E Prepared B	
			RI					
Parameter	Flag		Result	t	Units		Dilution	$\operatorname{RL}$
Benzene			< 0.0100	)	mg/Kg		1	0.0100
Toluene			< 0.0100	)	mg/Kg		1	0.0100
Ethylbenzene			0.0226	3	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TF	T)		1.11	mg/Kg	1	1.00	111	82.9 - 125.1
4-Bromofluorobenze	ne (4-BFB)		1.14	mg/Kg	1	1.00	114	48.9 - 160.4

## Sample: 157069 - S. Exc. E. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH DRO 47572 40906		Analytical M Date Analyze Sample Prepa	ed: 2008-0	4-17	-	fethod: N/A ed By: AG ed By: AG
Parameter	Fla	g	RL Result	Un		Dilution	RL
DRO			<50.0	mg/l	۲g	I	50.0
Surrogate n-Triacontane	Flag	Result 104	Units mg/Kg	Dilution 1	Spike Amount 100	Percent Recovery 104	Recovery Limits 10 - 250.4

## Sample: 157069 - S. Exc. E. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Analytical Date Anal Sample Pr		S 8015B 2008-04-19 2008-04-18		Prep Meth Analyzed Prepared 3	By: AG
			$\mathbf{RL}$					
Parameter	$\mathbf{F}$ lag		Result		Units	D	ilution	$\mathbf{RL}$
GRO	В		7.83		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.16	mg/Kg	1	1.00	116	75 - 117.2
4-Bromofluor	cobenzene (4-BFB)		1.29	mg/Kg	1	1.00	129	66 - 142.8

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## Sample: 157070 - S. Exc. S. Wall, 5'

Analysis: QC Batch: Prep Batch:	BTEX 47610 40929		Analytical l Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Prepare	d By: AG
			RI	J				
Parameter	Flag	5	Resul	t	Units		Dilution	$\mathbf{RL}$
Benzene			< 0.010	) C	mg/Kg		1	0.0100
Toluene			< 0.010	C	mg/Kg		1	0.0100
Ethylbenzene	9		< 0.010	)	mg/Kg		1	0.0100
Xylene			< 0.010	)	mg/Kg	<u></u>	1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.09	mg/Kg	1	1.00	109	82.9 - 125.1
4-Bromofluor	robenzene (4-BFB)		1.10	mg/Kg	; 1	1.00	110	48.9 - 160.4

## Sample: 157070 - S. Exc. S. Wall, 5'

Analysis: QC Batch: Prep Batch:	TPH DRO 47572 40906		Analytical Me Date Analyze Sample Prepa	d: 20	lod. 8015B 008-04-17 008-04-17	Analyz	Method: N/A zed By: AG red By: AG
Parameter DRO	Flaț	5	RL Result <50.0		Units mg/Kg	Dilution 1	RL
Surrogate n-Triacontan	Flag	Result 104	Units mg/Kg	Dilutio	Spike n Amount 100	Percent Recovery 104	Recovery Limits 10 - 250.4

## Sample: 157070 - S. Exc. S. Wall, 5'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Analytical Date Anal Sample Pr		S 8015B 2008-04-19 2008-04-18		Prep Metl Analyzed Prepared	By: AG
_			RL			_		
Parameter	Flag		$\operatorname{Result}$		Units	D	lution	$\mathbf{RL}$
GRO	В		2.35		mg/Kg		1	1.00
Surrogata		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate		Flag			Dilution			
Trifluorotolu	ene (TFT)		1.16	mg/Kg	1	1.00	116	75 - 117.2
4-Bromofluor	robenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	66 - 142.8

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## Sample: 157071 - S. Exc. N. Wall, 6'

Analysis: BTEX QC Batch: 47610 Prep Batch: 40929		Analytical 1 Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Preparee	d By: AG
		R	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		< 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
Trifluorotoluene (TFT)		1.10	mg/Kg	1	1.00	110	82.9 - 125.1
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg		1.00	110	48.9 - 160.4

#### Sample: 157071 - S. Exc. N. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH DRO 47572 40906		Analytical Me Date Analyze Sample Prepa	d:	Mod. 8 2008-04 2008-04	-17	1	fethod: N/A ed By: AG ed By: AG
			$\mathbf{RL}$					
Parameter	Fla	2	Result		Unit	S	Dilution	$\mathbf{RL}$
DRO			<50.0		mg/K	g	1	50.0
Surrogate	Flag	Result	Units	Dilut	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	108	mg/Kg	1		100	108	10 - 250.4

#### Sample: 157071 - S. Exc. N. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Analytica Date Ana Sample Pi		S 8015B 2008-04-19 2008-04-18		Prep Meth Analyzed Prepared I	By: AG
			RL			_		_`_
Parameter	$\mathbf{F}$ lag		$\mathbf{Result}$		Units	D	ilution	$\mathbf{RL}$
GRO	В		1.15		mg/Kg	•	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.16	mg/Kg	1	1.00	116	75 - 117.2
4-Bromofluor	robenzene (4-BFB)		1.18	mg/Kg	1	1.00	118	66 - 142.8

#### Sample: 157072 - S. Exc. W. Wall, 6'

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Analysis: QC Batch: Prep Batch:	BTEX 47610 40929		Analytical I Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Preparec	d By: AG
			RI					
Parameter	Flag		Resul	t	Units	]	Dilution	$\operatorname{RL}$
Benzene			< 0.0100	)	mg/Kg		1	0.0100
Toluene			< 0.0100	)	mg/Kg		1	0.0100
Ethylbenzene	:		< 0.0100	)	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.08	mg/Kg	1	1.00	108	82.9 - 125.1
4-Bromofluor	obenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	48.9 - 160.4

#### Sample: 157072 - S. Exc. W. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH DRO 47572 40906		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 8 2008-04 2008-04	-17	Prep M Analyz Prepar	•
			$\mathbf{RL}$					
Parameter	Fl	ag	$\mathbf{Result}$		Unit	S	Dilution	$\mathbf{RL}$
DRO			<50.0		mg/K	g	· 1	50.0
<b>a</b>	-		<b>TT 1</b> .			Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilut	tion	Amount	Recovery	Limits
n-Triacontan	e	87.2	mg/Kg	1	<u>.</u>	100	87	10 - 250.4

#### Sample: 157072 - S. Exc. W. Wall, 6'

Analysis: QC Batch: Prep Batch:	TPH GRO 47611 40929		Analytical Date Anal Sample Pr		S 8015B 2008-04-19 2008-04-18		Prep Meth Analyzed Prepared	By: AG
Parameter	Flag		$\operatorname{RL}$ Result		Units	n	vilution	RL
GRO	Flag		<1.00		mg/Kg	D	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.15	mg/Kg	1	1.00	115	75 - 117.2
4-Bromofluor	robenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	66 - 142.8

Report Date: April 22, 2008	Work Order: 8041721	Page Number: 12 of 19
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch	Lea County, NM

## Sample: 157073 - S. Exc. Floor, 8'

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Analysis:BTEXQC Batch:47610Prep Batch:40929		Analytical Date Analy Sample Pre	zed:	S 8021B 2008-04-19 2008-04-18		Prep Me Analyze Prepare	d By: AG
		R	L				
Parameter Fla	ag	Resul	t	Units		Dilution	$\operatorname{RL}$
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)		1.08	mg/Kg	1	1.00	108	82.9 - 125.1
4-Bromofluorobenzene (4-BFB)	1	1.09	mg/Kg		1.00	109	48.9 - 160.4

## Sample: 157073 - S. Exc. Floor, 8'

Analysis: QC Batch: Prep Batch:	TPH DRO 47572 40906		Analytical Mo Date Analyze Sample Prepa	ed: 2	Mod. 801 2008-04-1 2008-04-1	17	-	5	N/A AG AG
Parameter	Fla	g	$\operatorname{RL}$ Result		Units		Dilution		RL
DRO		·····	<50.0		mg/Kg		1 .		50.0
Surrogate	Flag	Result	Units	Diluti	on	Spike Amount	Percent Recovery	Reco Lim	its
n-Triacontan	e	101	mg/Kg	1		100	101	10 - 2	250.4

## Sample: 157073 - S. Exc. Floor, 8'

Analysis: QC Batch:	TPH GRO 47611		Analytical Date Anal	lyzed:	S 8015B 2008-04-19		Prep Meth Analyzed	By: AG
Prep Batch:	40929		Sample Pi	reparation:	2008-04-18		Prepared 2	By: DC
			$\mathbf{RL}$					
Parameter	$\mathbf{Flag}$		$\mathbf{Result}$		Units	D	ilution	$\mathbf{RL}$
GRO	······································		<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	' Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	1 1006	1.14	mg/Kg	1	1.00	114	75 - 117.2
	robenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	66 - 142.8

## Method Blank (1) QC Batch: 47569

QC Batch:	47569	Date Analyzed:	2008-04-17	Analyzed By:	AG
Prep Batch:	40906	QC Preparation:	2008-04-17	Prepared By:	AG

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Work Order: 8041721 Lea Station to Monument 6 inch

				MDI					-
Parameter		Flag		Resul		•	nits		R
DRO				<15.8	3	m	g/Kg		5
						Spike	Percent	Reco	overv
Surrogate	Flag	Result	Units	Dih	ition	Amount	Recovery	Lin	-
n-Triacontane	0	112	mg/Kg		1	100	112	30.9 -	146
Method Blank	(1) QC	Batch: 47572							
QC Batch: 47	572		Date An	alvzed: 2	2008-04-17		Anal	yzed By:	AC
Prep Batch: 409					2008-04-17			ared By:	AC
			<b>V</b> 1	MDI				5	
Parameter		Flag		Result		U	nits		R
DRO		0		<15.8			g/Kg		5
					- ·				
						Spike	Percent	Reco	
Surrogate	Flag	Result	Units		ition	Amount	Recovery	Lin	
n-Triacontane		104	mg/Kg		1	100	104	30.9 -	146
QC Batch: 476 Prep Batch: 409			Date An QC Prep	•	2008-04-19 2008-04-18			yzed By: ared By:	AC DC
				MI	DL				
Parameter		Flag		Res	ult	τ	Jnits		R
Benzene				< 0.01			g/Kg		0.0
Toluene				< 0.01			g/Kg		0.0
Ethylbenzene				< 0.01			g/Kg		0.0
Xylene		·		< 0.03	31	m	g/Kg		0.0
						Spike	Percent	Reco	-
Surrogate		Flag	Result	Units	Dilutior		Recovery	Lin	
Trifluorotoluene (			1.08	mg/Kg	1	1.00	108	82.3 -	
4-Bromofluorober	nzene (4-BFE	3)	1.05	mg/Kg	1	1.00	105	72 -	123
	·					· · · · · ·			
Method Blank	(1) QC	Batch: 47611							
QC Batch: 476	511		Date An	alyzed: 2	2008-04-19		Analy	yzed By:	AC
Prep Batch: 409					2008-04-18			ared By:	DC
•			- •				•	·	
				MDI					

Parameter		<b>n</b> 1.		
	Flag	Result	Units	$\mathbf{RL}$
GRO		0.856	mg/Kg	1

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.21	mg/Kg	1	1.00	121	70 - 130
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch:	47569	Date Analyzed:	2008-04-17	Analyzed By:	AG
Prep Batch:	40906	QC Preparation:	2008-04-17	Prepared By:	AG

	LCS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	$\mathbf{U}$ nits	Dil.	Amount	$\mathbf{Result}$	Rec.	$\mathbf{Limit}$
DRO	272	mg/Kg	1	250	<15.8	109	27.8 - 152.1

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.	Limit	RPD	Limit
DRO	317	mg/Kg	1	250	<15.8	127	27.8 - 152.1	15	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	111	121	mg/Kg	1	100	111	121	38 - 130.4

#### Laboratory Control Spike (LCS-1)

QC Batch:	47572	Date Analyzed:	2008-04-17	Analyzed By:	AG
Prep Batch:	40906	QC Preparation:	2008-04-17	Prepared By:	AG

	LCS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
DRO	316	mg/Kg	1	250	<15.8	126	27.8 - 152.1

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
DRO		282	mg/Kg	1	250	<15.8	113	27.8 - 152.1	11	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
n-Triacontane	108	101	mg/Kg	1	100	108	101	38 - 130.4

#### Laboratory Control Spike (LCS-1)

QC Batch:	47610	Date Analyzed:	2008-04-19	Analyzed By:	AG
Prep Batch:	40929	QC Preparation:	2008-04-18	Prepared By:	DC

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Work Order: 8041721 Lea Station to Monument 6 inch

Param	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	$egin{array}{c} { m Matrix} \\ { m Result} \end{array}$	Rec.	Rec. Limit
Benzene	1.11	mg/Kg	1	1.00	< 0.0110	111	72.7 - 129.8
Toluene	1.11	mg/Kg	1	1.00	< 0.0109	111	71.6 - 129.6
Ethylbenzene	1.12	mg/Kg	1	1.00	< 0.0109	112	70.8 - 129.7
Xylene	3.39	mg/Kg	1	3.00	< 0.0331	113	70.9 - 129.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	$\mathbf{Limit}$	RPD	Limit
Benzene	1.10	mg/Kg	1	1.00	< 0.0110	110	72.7 - 129.8	1	20
Toluene	1.11	mg/Kg	1	1.00	< 0.0109	111	71.6 - 129.6	0	20
Ethylbenzene	1.12	mg/Kg	1	1.00	< 0.0109	112	70.8 - 129.7	0	20
Xylene	3.41	mg/Kg	1	3.00	< 0.0331	114	70.9 - 129.4	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	$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.07	1.08	mg/Kg	1	1.00	107	108	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	1.05	1.06	mg/Kg	1	1.00	105	106	73.8 - 122.4

#### Laboratory Control Spike (LCS-1)

QC Batch:	47611	Date Analyzed:	2008-04-19	Analyzed By:	
Prep Batch:	40929	QC Preparation:	2008-04-18	Prepared By:	DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	10.2	mg/Kg	1	10.0	0.856	93	70 - 130

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	10.1	mg/Kg	1	10.0	0.856	92	70 - 130	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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.29	1.29	mg/Kg	1	1.00	129	129	70 - 130
4-Bromofluorobenzene (4-BFB)	1.19	1.21	mg/Kg	1	1.00	119	121	70 - 130

#### Matrix Spike (MS-1) Spiked Sample: 157046

QC Batch: 4756 Prep Batch: 4090		Date Analyzed: 2008-04-17 QC Preparation: 2008-04-17				Analyzed By Prepared By		
Param	MS Besult	+ Units	Dil	Spike	Matrix Result		Rec.	

1 aram nesut	Units	D11.	Amount	icouit	Rec.	LIIIII
DRO 294	mg/Kg	1	250	<15.8	118	18 - 179.5

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

Report Date: April 22, 2 Lea Station to Monumen			Lea S		order: 8041 Nonume				'umber: Lea Cou	
Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		327	mg/Kg	1	250	<15.8	131	18 - 179.5	11	20
Percent recovery is based	on the sp	ike result.		oased on	the spike	and spike di	uplicate	result.		
	MS	MSD				Spike	MS	5 MSD		Rec.
Surrogate	Result	Result	: U	nits	Dil.	Amount	Rec	c. Rec.		Limit
n-Triacontane	103	108	mį	g/Kg	1	100	103	3 108	34	.1 - 158
Matrix Spike (MS-1)	Spiked	Sample: 15	7073							
QC Batch: 47572 Prep Batch: 40906			Date An QC Prep	-	2008-04- 2008-04-				lyzed By bared By	
		MS				Spike	Mat	rix		Rec.
Param	,	Resu		Jnits	Dil.	Amount	Res	ult Rec.		Limit
DRO		279	m	ıg/Kg	1	250	<15	5.8 112	18	- 179.5
Percent recovery is based	on the sp		RPD is b	ased on		_	iplicate i			
<b>n</b>		MSD	<b>TT T</b> .	10.11	Spike	Matrix	n	Rec.	nnn	RPD
Param	4	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		525	mg/Kg	1	250	<15.8	210	18 - 179.5	200	20
Percent recovery is based	on the sp	ike result.	RPD is b	based on	the spike a	and spike dı	iplicate i	result.		
		MOD				Spike				Rec.
	MS	MSD				Shire	MS	S MSD		
	MS Result	Result	-	nits	Dil.	Amount	MS Rec			Limit
			-	nits g/Kg	Dil. 1			. Rec.		
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610	Result 96.0	Result 94.7 Sample: 15	mį	g/Kg alyzed:	1 2008-04-	Amount 100	Rec	2. Rec. 95 Anal		.1 - 158 :: AG
Prep Batch: 40929	Result 96.0	Result 94.7 Sample: 15 MS	mg 7073 Date An QC Prep	g/Kg alyzed: paration:	1 2008-04- 2008-04-	Amount 100 19 18 Spike	Rec 96 Matri	x Rec. 95 Anal Prep	34 lyzed By bared By	.1 - 158 : AG : DC Rec.
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param	Result 96.0	Result 94.7 Sample: 15 MS Resul	mg 7073 Date An QC Prep t U	g/Kg alyzed: paration: nits	1 2008-04- 2008-04- Dil.	Amount 100 19 18 Spike Amount	Rec 96 Matri Resul	x Rec. 95 Anal Prep	34 lyzed By bared By I L	.1 - 158 : AG : DC Rec. imit
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param Benzene	Result 96.0 Spiked	Result 94.7 Sample: 15 MS Resul 1.91	mg 7073 QC Prep t U mg	g/Kg alyzed: paration: nits g/Kg	1 2008-04- 2008-04- Dil. 1	Amount 100 19 18 Spike Amount 1.00	Rec 96 96 Matri Resul <0.01	x t Rec. 95 Anal Prep t Rec. 10 191	34 lyzed By pared By I L 58.6	.1 - 158 : AG : DC Rec. imit - 165.2
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param Benzene Toluene	Result 96.0 Spiked	Result 94.7 Sample: 15 MS Resul 1.91 1.98	mg 7073 Date An QC Prep t U mg mg	g/Kg alyzed: paration: nits g/Kg g/Kg	1 2008-04- 2008-04- Dil. 1 1	Amount 100 19 18 Spike Amount 1.00 1.00	Rec 96 96 Matri Resul <0.01 <0.010	2. Rec. 95 Anal Prep x t Rec. 10 191 09 198	34 lyzed By pared By I L 58.6 64.2	.1 - 158 : AG : DC Rec. imit - 165.2 - 153.8
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param Benzene Toluene Ethylbenzene	Result 96.0 Spiked	Result 94.7 Sample: 15 MS Resul 1.91 1.98 2.06	mg 7073 QC Prep t U mg mg mg	g/Kg alyzed: paration: nits g/Kg g/Kg g/Kg	1 2008-04- 2008-04- Dil. 1 1 1	Amount 100 19 18 Spike Amount 1.00 1.00 1.00	Rec 96 96 96 96 96 96 96 96 96 96 96 96 96	x t Rec. 95 Anal Prep x t Rec. 10 191 99 198 99 206	34 lyzed By pared By L 58.6 64.2 61.6	.1 - 158 : AG : DC Rec. imit - 165.2 - 153.8 - 159.4
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param Benzene Toluene Ethylbenzene Xylene	Result 96.0 Spiked 5 6 7 8	Result 94.7 Sample: 15 MS Resul 1.91 1.98 2.06 6.16	mg 7073 Date An QC Prep t U mg mg mg mg	g/Kg alyzed: oaration: s/Kg g/Kg g/Kg g/Kg	1 2008-04- 2008-04- Dil. 1 1 1 1 1	Amount 100 19 18 Spike Amount 1.00 1.00 1.00 3.00	Rec           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96	x t Rec. 95 Anal Prep x t Rec. 10 191 09 198 09 206 31 205	34 lyzed By pared By L 58.6 64.2 61.6	.1 - 158 : AG : DC Rec. imit - 165.2 - 153.8 - 159.4
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param	Result 96.0 Spiked 5 6 7 8	Result 94.7 Sample: 15 MS Resul 1.91 1.98 2.06 6.16 ike result.	mg 7073 Date An QC Prep t U mg mg mg mg	g/Kg alyzed: oaration: s/Kg g/Kg g/Kg g/Kg	1 2008-04- 2008-04- Dil. 1 1 1 1 1 the spike a	Amount 100 19 18 Spike Amount 1.00 1.00 1.00 3.00 and spike du	Rec           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96	Rec.         95           95         Anal           Prep         Yes           t         Rec.           10         191           198         206           31         205	34 lyzed By pared By L 58.6 64.2 61.6	.1 - 158 - AG : DC Rec. imit - 165.2 - 153.8 - 159.4 - 155.3
n-Triacontane Matrix Spike (MS-1) QC Batch: 47610 Prep Batch: 40929 Param Benzene Toluene Ethylbenzene Xylene	Result 96.0 Spiked 5 6 7 8	Result 94.7 Sample: 15 MS Resul 1.91 1.98 2.06 6.16	mg 7073 Date An QC Prep t U mg mg mg mg	g/Kg alyzed: oaration: s/Kg g/Kg g/Kg g/Kg	1 2008-04- 2008-04- Dil. 1 1 1 1 1	Amount 100 19 18 Spike Amount 1.00 1.00 1.00 3.00	Rec           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96           96	x t Rec. 95 Anal Prep x t Rec. 10 191 09 198 09 206 31 205	34 lyzed By pared By L 58.6 64.2 61.6	.1 - 158 : AG : DC Rec. imit - 165.2 - 153.8 - 159.4

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⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

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		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	Limit
Toluene	10	1.60	mg/Kg	1	1.00	< 0.0109	160	64.2 - 153.8	21	20
Ethylbenzene	11	1.65	mg/Kg	1	1.00	< 0.0109	165	61.6 - 159.4	22	20
Xylene	12	4.99	mg/Kg	1	3.00	< 0.0331	166	64.4 - 155.3	21	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	Result	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.10	1.09	mg/Kg	1	1	110	109	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)	1.10	1.10	mg/Kg	1	1	110	110	72 - 127.8

#### Matrix Spike (MS-1) Spiked Sample: 157058

QC Batch:	47611	Date Analyzed:	2008-04-19	Analyzed By:	AG
Prep Batch:	40929	QC Preparation:	2008-04-18	Prepared By:	DC

	MS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	$\mathbf{Result}$	Rec.	$\mathbf{Limit}$
GRO	11.0	mg/Kg	1	10.0	<0.171	110	22.3 - 134.6

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.	Limit	RPD	Limit
GRO	12.2	mg/Kg	1	10.0	< 0.171	122	22.3 - 134.6	10	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.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	1.05	1:12	mg/Kg	1	1	105	112	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)	1.22	1.23	mg/Kg	1	1	122	123	66.7 - 134.3

#### Standard (CCV-1)

QC Batch:	47569		Date Ana	ulyzed: 2008-0	Anal	yzed By: AG	
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	269	108	85 - 115	2008-04-17

#### Standard (CCV-2)

QC Batch: 47569

Date Analyzed: 2008-04-17

Analyzed By: AG

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 matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
¹²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Lea Station	te: April 22, 20 n to Monument			Vork Order: 804 ation to Monun				
-			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		mg/Kg	250	257	103	85 - 115	2008-04-17	
Standard	(CCV-3)							
QC Batch:	47569		Date Analyzed: 2008-04-17			Anal	yzed By: AG	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		mg/Kg	250	284	114	85 - 115	2008-04-1	
Standard	(ICV-1)							
QC Batch:	47572		Date Analy	yzed: 2008-04-	-17	Anal	yzed By: AG	
			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		mg/Kg	250	278	111	85 - 115	2008-04-17	
Standard	(CCV-1)							
	47572		Date Analy	yzed: 2008-04-	-17	Anal	yzed By: AG	
QC Batch:			CCVs	CCVs	CCVs	Percent		
QU Batch:			CUVS					
QU Batch:			True	Found	Percent	Recovery	Date	
aram	Flag	Units				Recovery Limits	Analyzed	
Param		Units mg/Kg	True	Found	Percent	Recovery	Analyzed	
QC Batch: Param DRO Standard	Flag		True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed	
Param DRO	Flag (ICV-1)		True Conc. 250	Found Conc.	Percent Recovery 109	Recovery Limits 85 - 115	Analyzed	
Param DRO Standard	Flag (ICV-1)		True Conc. 250 Date Analy ICVs	Found Conc. 273 /zed: 2008-04- ICVs	Percent Recovery 109 -19 ICVs	Recovery Limits 85 - 115 Analy Percent	Analyzed 2008-04-17 yzed By: AG	
Param DRO Standard QC Batch:	Flag (ICV-1) 47610	mg/Kg	True Conc. 250 Date Analy ICVs True	Found Conc. 273 yzed: 2008-04- ICVs Found	Percent Recovery 109 -19 ICVs Percent	Recovery Limits 85 - 115 Analy Percent Recovery	Analyzed 2008-04-17 yzed By: AG Date	
Param DRO Standard QC Batch: Param	Flag (ICV-1)	mg/Kg Units	True Conc. 250 Date Analy ICVs True Conc.	Found Conc. 273 yzed: 2008-04- ICVs Found Conc.	Percent Recovery 109 -19 -ICVs Percent Recovery	Recovery Limits 85 - 115 Analy Percent Recovery Limits	Analyzed 2008-04-17 yzed By: AG Date Analyzed	
Param DRO Standard QC Batch: Param Benzene	Flag (ICV-1) 47610	mg/Kg Units mg/Kg	True Conc. 250 Date Analy ICVs True Conc. 0.100	Found Conc. 273 yzed: 2008-04- ICVs Found Conc. 0.108	Percent Recovery 109 -19 -ICVs Percent Recovery 108	Recovery Limits 85 - 115 Analy Percent Recovery Limits 85 - 115	Analyzed 2008-04-17 yzed By: AG Date Analyzed 2008-04-19	
Param DRO Standard	Flag (ICV-1) 47610 Flag	mg/Kg Units	True Conc. 250 Date Analy ICVs True Conc.	Found Conc. 273 yzed: 2008-04- ICVs Found Conc.	Percent Recovery 109 -19 -ICVs Percent Recovery	Recovery Limits 85 - 115 Analy Percent Recovery Limits	Analyzed 2008-04-17 yzed By: AG Date Analyzed	

QC Batch: 47610

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Date Analyzed: 2008-04-19

Analyzed By: AG

Work Order: 8041721 Lea Station to Monument 6 inch

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.112	112	85 - 115	2008-04-19
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2008-04-19
Ethylbenzene		mg/Kg	0.100	0.110	110	85 - 115	2008-04-19
Xylene		mg/Kg	0.300	0.333	111	85 - 115	2008-04-19

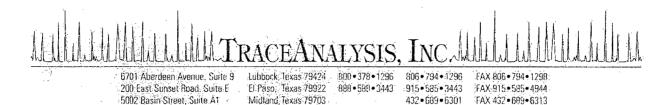
## Standard (ICV-1)

QC Batch:	47611		Date Ana	alyzed: 2008-0	4-19	Analyzed By: A		
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
GRO		mg/Kg	1.00	1.15	115	85 - 115	2008-04-19	

## Standard (CCV-1)

QC Batch:	47611		Date Ana	alyzed: 2008-04	Analyzed By: AG		
			CCVs True	$\operatorname{CCVs}$ Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2008-04-19

| 00 East Sunset Rd., Suite E 8808 Camp Bowt Bivd. West,<br>El Paso, Texas 70922 FŁ Worth, Texas 7611<br>Tel (815) 585-3443 Tel (817) 201-5280<br>Fax (915) 585-3444 Fax (817) 560-4336<br>1 (888) 588-3443 | ANALYSIS REQUEST<br>or Specify Method No.)                                                                                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 6201 Aberdeen Avenue, Suite 9                                                                                                                                                                             | LraceAnalySIS, Inc. Lubbock, Texas 79424<br>Tel (806) 794-1296<br>Fax (806) 794-1296<br>1 (800) 378-1296<br>1 (800) 378-1296 | I race Analysis, Inc.       Lubbock, Texas 79424       Midland, Texas 78703         Tel (686) 794-1296       Tel (432) 689-6301         email: lab@traceanalysis.com       7 (800) 378-1296         I/V 5/V/1 5/V/V/1 5/V/1 5/V/1 5/V/1 5/V/1 5/V/V/1 5/V/1 5/V/V/1 5/V | I race Analysis, Inc.       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Lubbock, Taxas 79424       Midland, Taxas 78703         email: lab@traceanalysis.com       Tai (806) 794-1296       Tai (432) 689-6301         email: lab@traceanalysis.com       7(800) 378-1296       Fax (432) 689-6301         et city, zip)       Fax #:       520-7720         et, city, zip)       Pution for the converting in for the convertend in for the converting in for the conver | <b>Face Analysis, Inc.</b> Indicati Texas 79424       Midiand Texas 7703         email: lab@traceanalysis.com $Tai (806) 794.1296$ $Tai (432) 689-6301$ email: lab@traceanalysis.com $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (806) 794.1296 $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (806) 794.1296 $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (806) 794.1296 $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (806) 78.1296 $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (31) $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (31) $Tai (800) 378.1296$ $Tai (432) 689-6301$ fax (31) $Tai (100) 378.1296$ $Tai (100) 378.1296$ fat, City, Zip) $Fax #:$ $Tau (11 e e novation 11 e e novati e novation 11 e e novation 11 e e novation $ | I TACE A BALYSIS, INC.     Unbook, Texes 79424     Midland, Texes 7703       email:     lab@traceanalysis.com     1 (800) 374-1296     Tak (432) 689-6301       email:     Fax (800) 374-1296     Tak (800) 374-1296     Tak (432) 689-6301       inel (A12)     Fax (800) 378-1296     Tak (800) 378-1296     Tak (432) 689-6301       inel (A12)     Fax (800) 378-1296     Fax (432) 689-6301     Tak (432) 689-6301       inel (A12)     Midmud, Texes 7703     Fax (800) 378-1296     Fax (432) 689-6301       NINU     Minich     Phone #:     520-772.0     Fax (432) 689-6301       NINU     Minich     Fax #:     Fax #:     Fax #:       Interval     NINU     Fax #:     Fax #:     Fax #:       Person     Fax #:     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #:     Fax #:     Fax #:       Person     Rom Spuille     Fax #: | <b>TACCARAIVSIS, Inc.Lubicock</b> , Texas 79424<br>Tailock, Texas 79424<br>Tailock, Texas 79426<br>Tailock, Texas 7703<br>Tailock, Texas 7703<br>Ta | FaceAnalysis.com     Tublock, Texas 7943     Midland, Texas 7873       email: lab@traceanalysis.com     Tublock, Texas 7944     Midland, Texas 7873       email: lab@traceanalysis.com     Tak (800) 794-1296     Tak (800) 794-1296       email: lab@traceanalysis.com     Fax #:     Tak (800) 794-1296       email: lab@traceanalysis.com     Phone #:     Tak (800) 794-1296       fax (800) 794-1296     Fax #:     Tak (800) 774-1296       fax (800) 774-1296     Fax #:     Tak (800) 774-1296       fax (800) 774-120     Fax #:     Tak (800) 774-1296       fax (800) 774-120     Fax #:     Tak (800) 774-1206       fax (800) 710-10     Lab     Start (800) 74-1206 <td>FraceAnalysis.com     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (800) 731-1296       email: lab@traceanalysis.com     Fax #:<br/>1 (800) 331-1296     Fax #:<br/>1 (800) 331-1296       email: lab@traceanalysis.com     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (420) 531-1296       email: lab@traceanalysis.com     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (420) 531-1296       email: lab@traceanalysis.com     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (420) 531-1296       email: lab@traceanalysis.com     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (420) 1000       endined Tex     Phone #:<br/>1 (800) 331-1296     Tate 2000<br/>Tel (420) 1000       endined Tex     Phone #:<br/>1 (800) 331-1296     Tate 2000       endined Tex     Phone #:<br/>2 200-7720     Phone #:<br/>2 200-7720       MTEE     Bonumet     Fax #:<br/>1 (800) 331-1206       Monumet     Fax #:<br/>2 200/-7105     Phone #:<br/>2 200/-7105       Monumet     Phone #:<br/>2 200/-7105       Phone #:     Phone #:<br/>2 200/-7105       Phone #:     Phone #:<br/>2 200/-7105<!--</td--><td>TaccAnalysis.com     TaccAnalysis.com       email: lab@traceanalysis.com     Phone #:<br/>18(806) 784-1286     Tace 7036       email: lab@traceanalysis.com     Phone #:<br/>18(806) 784-1286     Phone #:<br/>18(806) 784-1286       email: lab@traceanalysis.com     Phone #:<br/>780 Pingler     Phone #:<br/>18(806) 784-1286       email: lab@traceanalysis.com     Phone #:<br/>780 Pingler     Phone #:<br/>780 Pingler       file     Phone #:<br/>780 Pingler     Phone #:<br/>780 Pingler       file     Phone #:<br/>780 Pingler     Phone #:<br/>780 Pingler       file     Phone #:<br/>777 Pingler     Phone #:<br/>777 Pin</td><td>PraceAnalysis.com     TaceAnalysis.com     Tubbout activities     TaceAnalysis.com       email: lab@traceanalysis.com     Fax (606) 794-7958     Fail (606) 794-7958     Fail (606) 794-7958       email: lab@traceanalysis.com     Fax (606) 794-7958     Fail (606) 794-7958     Fail (606) 794-7958       email: lab@traceanalysis.com     Fax (600) 794-7958     Fail (600) 794-7958     Fail (600) 794-7958       et. City, Zip)     Fax (100) 776-755     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       wo     Planta     Fax #:     Fax #:     Fax #:</td><td>Phone #:     TaceA nalysis.com     TaceA nalysis.com       email: lab@traceanalysis.com     Fax #000 794-1266     Fax (800) 734-1266     Fax (800) 734-1266       email: lab@traceanalysis.com     Fax #000 794-1266     Fax (800) 734-1266     Fax (800) 734-1266       ew. City, Zip)     Fax #1     Phone #:     7300-772.0       ew. City, Zip)     Fax #1     Fax #1     Fax #1       ew. 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City, Zip)     Fax (100) 776-755     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax (422) 6896-6313       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       et. City, Zip)     Fax #:     Fax #:     Fax #:       wo     Planta     Fax #:     Fax #:     Fax #:</td> <td>Phone #:     TaceA nalysis.com     TaceA nalysis.com       email: lab@traceanalysis.com     Fax #000 794-1266     Fax (800) 734-1266     Fax (800) 734-1266       email: lab@traceanalysis.com     Fax #000 794-1266     Fax (800) 734-1266     Fax (800) 734-1266       ew. City, Zip)     Fax #1     Phone #:     7300-772.0       ew. City, Zip)     Fax #1     Fax #1     Fax #1       ew. 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E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

817 • 201 • 5260

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: April 30, 2008

Work Order: 8042323

Project Location:Lea County, NMProject Name:Lea Station to Monument 6 inchProject Number:Lea Station to Monument 6 inchSRS#:SRS# 2001-11056

6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

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
$\overline{157646}$	S. Wall-2, 14'	soil	2008-04-23	08:40	2008-04-23

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

Michael Alm

Dr. Blair Leftwich, Director

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

# **Analytical Report**

Sample: 1	157646 -	s.	Wall-2,	14'
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Analysis: QC Batch: Prep Batch:	QC Batch: 47879			ed: 20	Iod. 80153 008-04-28 008-04-28		Prep M Analyz Prepar	N/A LD LD	
			RL		<b>T</b> T <b>T</b>				51
Parameter	Flag	5	Result		Units		Dilution		$\mathbf{RL}$
DRO			1830		mg/Kg		5		50.0
Surrogate	Flag	Result	Units	Dilutio	on .	Spike Amount	Percent Recovery		overy nits
n-Triacontan	ie	176	mg/Kg	5		100	176	10 -	250.4

#### Sample: 157646 - S. Wall-2, 14'

Analysis:TPH GROQC Batch:47924Prep Batch:41211		Analytical Method: Date Analyzed: Sample Preparation:			S 8015B 2008-04-29 2008-04-29		Prep Method: Analyzed By: Prepared By:		
			$\mathbf{RL}$						
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	$\operatorname{RL}$	
GRO			108		mg/Kg		50	1.00	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT) robenzene (4-BFB)	1 2	1.49 11.5	mg/Kg mg/Kg	50 50	1.00 1.00	149 1150	75.6 - 128 78.5 - 139	

## Method Blank (1) QC Batch: 47879

QC Batch: Prep Batch:	-			2008-04-2 2008-04-2			alyzed By:	
			М	DL				
Parameter		Flag	Re	sult		Units		$\mathbf{RL}$
DRO			<1	5.8		mg/Kg		50
Surrogate	Flag	Result	Units I	Dilution	Spike Amount	Percent Recovery	Recove Limit	
n-Triacontan	e	70.5	mg/Kg	1	100	70	30.9 - 14	46.4

## Method Blank (1) QC Batch: 47924

QC Batch:	47924	Date Analyzed:	2008-04-29	Analyzed By:	MT
Prep Batch:	41211	QC Preparation:	2008-04-29	Prepared By:	$\mathbf{MT}$

¹High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

RL -

Units

Report Date: April 30, 2008 Lea Station to Monument 6 inch

Parameter

0

Flag

Work Order: 8042323 Lea Station to Monument 6 inch

MDL

Result

Surrogate											
~ 0		Flag	Result	Unit	s Di	lution	Spike Amount		Percent ecovery		ecovery Limits
Trifluorotoluene (TFT)			0.974	mg/k	۲g	1	1.00		97		5 - 116
4-Bromofluorobenzene (4	-BFB)		0.561	mg/k	Kg		1.00		56	45.	2 - 98.
Laboratory Control S	pike (LC	S-1)									·
QC Batch: 47879			Date Ar	nalyzed:	2008-04	-28			Anal	yzed By	y: LD
Prep Batch: 41166			QC Prej	paration:	2008-04	-28			Prep	ared By	r: LD
		LCS	6			Spike	Mat	rix		3	Rec.
Param		Resu		Jnits	Dil.	Amount	Res		Rec.		imit
DRO		196	i m	g/Kg	1	250	<15	5.8	78	27.8	- 152.
Percent recovery is based	on the sp	oike result.	RPD is l	oased on	the spike	and spike o	duplicate	e result.			
~		LCSD	<b>.</b>		Spike	Matrix	-	Re			RPD
Param		Result	Units		Amount	Result	Rec.	Lin		RPD	Limi
DRO		224	mg/Kg	1	250	<15.8	90	27.8 -		13	20
Percent recovery is based	on the sp	oike result.	RPD is l	based on	the spike	and spike of	duplicate	result.			
r ercent recovery is based	-										
reitent recovery is based	LCS	LCSD	,			Spike	LC	cs	LCSD		Rec.
-	-	LCSD Result		nits	Dil.	Spike Amount	LC Re		LCSD Rec.		Rec. Limit
Surrogate n-Triacontane Laboratory Control Sp	LCS Result 65.4	Result 67.5	t U mį	g/Kg	Dil. 1	-		c.			
Surrogate n-Triacontane Laboratory Control Sp QC Batch: 47924	LCS Result 65.4	Result 67.5	t U mg Date An	g/Kg		Amount 100	Re	c.	Rec. 68 Analy		Limit - 130.4 : MT
Surrogate n-Triacontane Laboratory Control Sp QC Batch: 47924 Prep Batch: 41211	LCS Result 65.4	Result 67.5 S-1)	Date An QC Prep	g/Kg alyzed: paration:	1 2008-04 2008-04	Amount 100 -29 -29 Spike	Re 65 Ma	c. 5	Rec. 68 Analy Prepa	38 vzed By ured By:	Limit - 130.4 : MT : MT Rec.
Surrogate n-Triacontane Laboratory Control Sp QC Batch: 47924 Prep Batch: 41211 Param	LCS Result 65.4	Result 67.5 S-1) LC3 Resu	Date An QC Prep S Ilt	g/Kg alyzed: paration: Units	1 2008-04 2008-04 Dil.	Amount 100 -29 -29 Spike Amount	Re 65 Ma Re	c. 5 strix sult	Rec. 68 Analy Prepa Rec.	38 vzed By vred By:	Limit - 130.4 : MT : MT Rec. Limit
Surrogate n-Triacontane Laboratory Control S QC Batch: 47924 Prep Batch: 41211 Param GRO	LCS Result 65.4 pike (LC	Result 67.5 S-1) LC: Resu	Date An QC Prep S ilt 6 n	g/Kg alyzed: paration: Units ng/Kg	1 2008-04 2008-04 Dil. 1	Amount 100 -29 -29 Spike Amount 10.0	Re 65 Ma Re <0	atrix sult	Rec. 68 Analy Prepa Rec. 100	38 vzed By vred By:	Limit - 130.4 : MT : MT Rec. Limit
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Surrogate n-Triacontane Laboratory Control S QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based Param	LCS Result 65.4 pike (LC	Result 67.5 S-1) LC3 Result JCSD Result 9.70 pike result.	Date An QC Prep S Ilt 6 n RPD is 1 Units mg/Kg RPD is 1	g/Kg alyzed: baration: Units ng/Kg based on t Dil. 1 based on t	1 2008-04 2008-04 Dil. 1 the spike Spike Amount 10.0	Amount 100 -29 -29 -29 and spike of Matrix Result <0.144 and spike of	Re 61 61 01 01 01 01 01 01 01 01 01 01 01 01 01	c. 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rec. 68 Analy Prepa Rec. 100 ec. mit - 115	38 vzed By rred By: 76 <u>RPD</u> 3	Limit - 130.4 - 130.4 - 130.4 - MT Rec. Limit .4 - 115 RPD Limit 20
Surrogate n-Triacontane Laboratory Control S QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based Param GRO Percent recovery is based	LCS Result 65.4 pike (LC	Result 67.5 S-1) S-1) LCS Result LCSD Result 9.70 bike result. LCS	Date An QC Prep S ilt 6 n RPD is 1 Mg/Kg RPD is 1 S LC	g/Kg alyzed: baration: Units ng/Kg based on t Dil. 1 based on t SD	1 2008-04 2008-04 Dil. 1 the spike Amount 10.0 the spike	Amount 100 -29 -29 -29 and spike of Matrix Result <0.144 and spike of S	Re 61 61 01 01 01 01 01 01 01 01 01 01 01 01 01	c. 5 5 14 14 14 14 14 14 14 14 14 14 14 14 14	Rec. 68 Analy Prepa Rec. 100 ec. mit - 115 LCSI	38 vzed By ured By: 76 RPD 3	Limit - 130.4 - 130.4 - 130.4 - MT Rec. Limit - 4 - 115 - 115 - 20 Rec.
Surrogate n-Triacontane Laboratory Control Sp QC Batch: 47924 Prep Batch: 41211 Param GRO Percent recovery is based Param GRO	LCS Result 65.4 pike (LC	Result 67.5 S-1) LC3 Result JCSD Result 9.70 pike result.	Date An QC Prep S Ilt 6 n RPD is 1 Mg/Kg RPD is 1 S LC It Res	g/Kg alyzed: baration: Units ng/Kg based on t Dil. 1 based on t SD sult U	1 2008-04 2008-04 Dil. 1 the spike Amount 10.0 the spike	Amount 100 -29 -29 -29 and spike of Matrix Result <0.144 and spike of S Dil. An	Re 61 61 01 01 01 01 01 01 01 01 01 01 01 01 01	c. 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rec. 68 Analy Prepa Rec. 100 ec. mit - 115	38 vzed By ured By: 76 RPD 3	Limit - 130.4 - 130.4 - 130.4 - MT Rec. Limit RPD Limit 20

Matrix Spike (MS-1) Spiked Sample: 157559

Report Date: April 30, 2008

Lea Station to Monument 6 inch

QC Batch:	47879	Date Ana	dyzed: 2008-04-28 Analyzed By:	LD
Prep Batch:	41166	QC Prepa	aration: 2008-04-28 Prepared By:	LD

Work Order: 8042323

Lea Station to Monument 6 inch

		MS			Spike	Matrix		Rec.
Param		$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	Limit
DRO	3	3500	mg/Kg	5	250	2537.31	385	18 - 179.5

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

		MSD			Spike	Matrix		Rec.		RPD
Param		$\mathbf{Result}$	Units	Dil.	$\mathbf{Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	4	2470	mg/Kg	5	250	2537.31	0	18 - 179.5	34	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		$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	56	169	228	mg/Kg	5	100	169	228	34.1 - 158

#### Matrix Spike (MS-1) Spiked Sample: 157555

QC Batch:	47924	Date Analyzed:	2008-04-29	Analyzed By:	$\mathbf{MT}$
Prep Batch:	41211	QC Preparation:	2008-04-29	Prepared By:	$\mathbf{MT}$

		MS			Spike	Matrix		Rec.
Param		$\mathbf{Result}$	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	Limit
GRO	7	272	mg/Kg	20	10.0	240	320	40.1 - 154

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.	Limit	RPD	Limit
GRO	8	313	mg/Kg	20	10.0	240	730	40.1 - 154	14	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)		1.12	1.13	mg/Kg	20	1	112	113	16.6 - 155
4-Bromofluorobenzene (4-BFB)	9 10	15.3	24.1	mg/Kg	20	1	1530	2410	40.1 - 176

#### Standard (CCV-1)

QC Batch: 47879

Date Analyzed: 2008-04-28

Analyzed By: LD

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁵High surrogate recovery due to peak interference.

- ⁶High surrogate recovery due to peak interference.
- ⁷Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
- ⁸Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

	te: April 30, n to Monume		Lea	Work Order: Station to Mor	Page Number: 5 of 5 Lea County, NM				
Param DRO	Flag	Units mg/Kg	CCVs True Conc. 250	CCVs Found Conc. 214	CCVs Percent Recovery 86	Percent Recovery Limits 85 - 115	Date Analyzed		
DRO		ing/Kg	230		00	89 - 119	2008-04-28		
Standard	(CCV-2)								
QC Batch:	47879		Date Ana	alyzed: 2008-0	4-28	Ana	lyzed By: LD		
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
DRO	Tag	mg/Kg	250	218	87	85 - 115	2008-04-28		
<b>Standard</b> QC Batch:	. ,		Date Ana	alyzed: 2008-0	4-29	Anal	yzed By: MT		
_	~		ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date		
Param GRO	Flag	Units mg/Kg	Conc. 1.00	Conc. 0.920	Recovery 92	Limits 85 - 115	Analyzed 2008-04-29		
Standard	(CCV-1)								
QC Batch:	47924		Date Ana	lyzed: 2008-0	4-29	Anal	yzed By: MT		
Param	Flog	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent	Percent Recovery Limits	Date		
GRO	Flag	mg/Kg	1.00	0.954	Recovery 95	85 - 115	Analyzed 2008-04-29		

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$\mathbf{n}$	TraceAnalysis. Inc.       6701 Aberdeen Avenue, Suite 9       5002 Basin Street, Suite A1       200 East Sunset Rd., Suite E       8608 Camp Bowle BMd. West, Suite S         TraceAnalysis.com       Lubbock, Texas 79303       Tel (422) 669-6301       Tel (422) 669-6301       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (422) 669-6301       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (915) 565-3443       Fix Worth, Texas 7616         Name:       Mu/H       Phone #:       Reidland, Texas 79303       Tel (915) 566-3443       Fix Worth, Texas 7616         Name:       Mu/H       Fix Mathedate       Reidland, Texas 79303       Tel (915) 566-3443       Fix Worth, Texas 7616       Fix Worth, Texas 7616         Nume:       Mu/H       Fix Mathedate       Fix Mathod No.       Circle of Specify Method No. <td>)109 gł</td> <td>1 <del>P</del>S q</td> <td>q Сי Р</td> <td></td> <td>PAH 8270C / 6</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-+</td> <td></td> <td></td> <td></td> <td>NIX N</td> <td>100</td> <td><u>ever</u></td> <td>HIPPHIN.</td>	)109 gł	1 <del>P</del> S q	q Сי Р		PAH 8270C / 6	-						-+				NIX N	100	<u>ever</u>	HIPPHIN.			
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## Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Project Location:Lea County, NMProject Name:Lea Station to Monument 6 inchProject Number:Lea Station to Monument 6 inchSRS#:SRS# 2001-11056

Report Date: May 5, 2008

Work Order: 8042914

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
158226	South Wall-4, 13'	soil	2008-04-28	09:30	2008-04-28
158227	East Wall-3, 13'	soil	2008-04-28	09:35	2008-04-28
158228	West Wall-3, 13'	soil	2008-04-28	09:27	2008-04-28
158229	South Floor-2, 15'	soil	2008-04-28	09:36	2008-04-28

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

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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## **Analytical Report**

#### Sample: 158226 - South Wall-4, 13'

Analysis:BTEXQC Batch:48037Prep Batch:41303		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2008-05-02 2008-05-02		Prep Metl Analyzed Prepared	By: MT
		$\operatorname{RL}$					
Parameter Flag		Result		Units	Di	lution	$\mathbf{RL}$
Benzene		< 0.0100		mg/Kg		1	0.0100
Toluene		< 0.0100		mg/Kg		1	0.0100
Ethylbenzene		< 0.0100		mg/Kg		1	0.0100
Xylene		< 0.0100		mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.864	mg/Kg	<u>ç 1</u>	1.00	86	67.4 - 126
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	ς 1	1.00	117	59.2 - 162

#### Sample: 158226 - South Wall-4, 13'

Analysis: QC Batch: Prep Batch:	QC Batch: 47932		Analytical Method Date Analyzed: Sample Preparatio		od. 8015B 08-04-29 08-04-29	1	Method: N/A zed By: RM red By: RM
			$\mathbf{RL}$				
Parameter	Fla	g	Result		Units	Dilution	$\mathbf{RL}$
DRO			<50.0	I	ng/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike n Amount	Percent Recovery	Recovery Limits
n-Triacontan		139	mg/Kg	1	100	139	49.5 - 185

#### Sample: 158226 - South Wall-4, 13'

Analysis: QC Batch: Prep Batch:	TPH GRO 47925 41212		Date Anal	e Analyzed: 2008-04-29 Analyzed		Prep Meth Analyzed Prepared 1	By: MT	
D (			RL		TT:+_	D	1)	'nr
Parameter	Flag		Result		Units	U	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	one (TFT)	6	0.971	mg/Kg	1	1.00	97	75.6 - 128
	• •			0, 0	1			
4-Bromofluoi	cobenzene (4-BFB)		1.32	mg/Kg	1	1.00	132	78.5 - 139

#### Sample: 158227 - East Wall-3, 13'

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Analysis: QC Batch: Prep Batch:	BTEX 48037 41303		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2008-05-02 2008-05-02		Prep Metl Analyzed Prepared	By: MT
			$\mathbf{RL}$					
Parameter	Flag		Result		Units	D	ilution	RL
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	<u>)</u>		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		$\mathbf{F}$ lag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.860	mg/Kg	ç 1	1.00	86	67.4 - 126
4-Bromofluor	obenzene (4-BFB)		1.18	mg/Kg	ç 1	1.00	118	59.2 - 162

#### Sample: 158227 - East Wall-3, 13'

Analysis: QC Batch: Prep Batch:	TPH DRO 47932 41218		Analytical Mo Date Analyze Sample Prepa	ed: 2	2008-04-29		Analyz	fethod: ed By: ed By:	N/A RM RM
			$\mathbf{RL}$						
Parameter	Fla	g	Result		Units		Dilution		$\mathbf{RL}$
DRO			<50.0		mg/Kg		1		50.0
						Spike	Percent	Reco	overy
Surrogate	Flag	$\mathbf{Result}$	Units	Dilutio	on A	Amount	Recovery	Lir	nits
n-Triacontan	e	112	mg/Kg	1		100	112	49.5	- 185

#### Sample: 158227 - East Wall-3, 13'

Analysis: QC Batch: Prep Batch:	TPH GRO 47925 41212		Analytical Date Anal Sample Pr		S 8015B 2008-04-29 2008-04-29		Prep Meth Analyzed Prepared 1	By: MT
Dansmotor	Flor		RL		Units	D	1)	DI
Parameter	Flag		Result			D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
		Tiag			Dilution			
Trifluorotolu	ene (TFT)		1.04	mg/Kg	1	1.00	104	75.6 - 128
4-Bromofluor	robenzene (4-BFB)		1.32	mg/Kg	1	1.00	132	78.5 - 139

#### Sample: 158228 - West Wall-3, 13'

Analysis: QC Batch: Prep Batch:	BTEX 48037 41303		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2008-05-02 2008-05-02		Prep Metl Analyzed Prepared	By: MT
			$\operatorname{RL}$					
Parameter	Flag		Result		Units	]	Dilution	$\mathbf{RL}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.863	mg/Kg	g 1	1.00	86	67.4 - 126
	obenzene (4-BFB)		1.16	mg/Kg	g 1	1.00	116	59.2 - 162

#### Sample: 158228 - West Wall-3, 13'

Analysis: QC Batch: Prep Batch:	QC Batch: 47932		Analytical Me Date Analyze Sample Prepa	ed: 2	/Iod. 80 2008-04- 2008-04-	29	Prep M Analyz Prepar	5
Parameter DRO	Fla	g	RL Result <50.0		Units mg/Kg		Dilution 1	RI 50.0
Surrogate n-Triacontan	Flag	Result 126	Units mg/Kg	Diluti 1	on	Spike Amount 100	Percent Recovery 126	Recovery Limits 49.5 - 185

#### Sample: 158228 - West Wall-3, 13'

Analysis: QC Batch: Prep Batch:	TPH GRO 47925 41212		Analytical Date Anal Sample Pr	yzed:	S 8015B 2008-04-29 2008-04-29		Prep Meth Analyzed Prepared 1	By: MT
			$\mathbf{RL}$					
Parameter	$\mathbf{Flag}$		Result		$\mathbf{Units}$	D	ilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.04	mg/Kg	1	1.00	104	75.6 - 128
4-Bromofluor	robenzene (4-BFB)		1.37	mg/Kg	1	1.00	137	78.5 - 139

#### Sample: 158229 - South Floor-2, 15'

Analysis: QC Batch: Prep Batch:	BTEX 48037 41303		Analytical M Date Analyz Sample Prep	zed:	S 8021B 2008-05-02 2008-05-02		Prep Met Analyzed Prepared	By: MT
			$\operatorname{RL}$					
Parameter	H	Flag	Result	i	Units	D	ilution	$\operatorname{RL}$
Benzene			< 0.0100	)	mg/Kg		1	0.0100
Toluene			< 0.0100	)	mg/Kg		1	0.0100
Ethylbenzene	<u>,</u>		< 0.0100	)	mg/Kg		1	0.0100
Xylene			< 0.0100	)	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		$\mathbf{Fla}$	ig Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.859	mg/Kg	ç 1	1.00	86	67.4 - 126
4-Bromofluor	obenzene (4-BF	B)	1.29	mg/Kg	; 1	1.00	129	59.2 - 162

#### Sample: 158229 - South Floor-2, 15'

Analysis:TPH DROQC Batch:47932Prep Batch:41218		Analytical Meth Date Analyzed: Sample Preparat		d: 20	od. 8015B 008-04-29 008-04-29	Analyz	fethod: N/A ed By: RM ed By: RM
			$\mathbf{RL}$				
Parameter	Flag	g	Result		Units	Dilution	$\mathbf{RL}$
DRO			<50.0	]	mg/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	$\mathbf{Result}$	Units	Dilutio	n Amount	Recovery	Limits
n-Triacontan	e	128	mg/Kg	1	100	128	49.5 - 185

#### Sample: 158229 - South Floor-2, 15'

Analysis: QC Batch: Prep Batch:	TPH GRO 47925 41212		Analytical Date Anal Sample Pr		S 8015B 2008-04-29 2008-04-29		Prep Meth Analyzed I Prepared I	By: MT
			$\mathbf{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	D	lution	$\mathbf{RL}$
GRO			9.08		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.00	mg/Kg	1	1.00	100	75.6 - 128
4-Bromofluor	robenzene (4-BFB)	1	1.50	mg/Kg	1	1.00	150	78.5 - 139

¹High surrogate recovery due to peak interference.

Method Blank (1)	QC Batch: 47925							
QC Batch: 47925		Date Anal		008-04-29		Analyz	ed By:	MT
Prep Batch: 41212		QC Prepa	ration: 20	008-04-29		Prepar	ed By:	MT
			MDL	ı				
Parameter	Flag		Result		Uni	its		$\mathbf{RL}$
GRO			< 0.144	1	mg/	Kg		1
					Spike	Percent	Rec	overy
Surrogate	Flag	Result	Units	Dilution		Recovery		mits
Trifluorotoluene (TFT)		0.931	mg/Kg	1	1.00	93	85 -	- 116
4-Bromofluorobenzene		0.660	mg/Kg	1	1.00	66	45.2	- 98.8
Method Blank (1)	QC Batch: 47932							
QC Batch: 47932		Date Anal	yzed: 20	008-04-29		Analyz	ed By:	RM
Prep Batch: 41218		QC Prepa		008-04-29		Prepar	•	RM
-						-	2	
Davia in al a	Die -		MDL		TT.			ы
Parameter DRO	Flag		Result <6.77		Uni mg/			$\frac{\text{RL}}{50}$
DIO					mg/			00
Surrogate F	'lag Result	Units		ution	Spike Amount	Percent Recovery	Li	overy mits
Surrogate F n-Triacontane	Flag Result 166	Units mg/Kg	Dilı		Spike	Percent	Li	
			Dih yzed: 20 ration: 20	ution 1 2008-05-02 2008-05-02	Spike Amount	Percent Recovery	Li: 49.5 ed By:	mits
n-Triacontane Method Blank (1) QC Batch: 48037	166	mg/Kg Date Anal	Dih yzed: 20	ution 1 2008-05-02 2008-05-02 2014	Spike Amount	Percent Recovery 166 Analyz Prepar	Li: 49.5 ed By:	mits - 185 MT
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303	166 QC Batch: 48037	mg/Kg Date Anal	Dih yzed: 20 ration: 20 MI	ution 1 008-05-02 008-05-02 0L 1lt	Spike Amount 100	Percent Recovery 166 Analyz Prepar	Li: 49.5 ed By:	mits - 185 MT MT
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter	166 QC Batch: 48037	mg/Kg Date Anal	Dih yzed: 20 ration: 20 MI Resu	ution 1 008-05-02 008-05-02 0L 1lt 47	Spike Amount 100 Un	Percent Recovery 166 Analyz Prepar- its	Li: 49.5 ed By:	mits - 185 MT MT RL
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter Benzene	166 QC Batch: 48037	mg/Kg Date Anal	Dih yzed: 20 ration: 20 MI Resu <0.003	ution 1 008-05-02 008-05-02 0L 0L 11t 47 25	Spike Amount 100 Un mg/ mg/ mg/	Percent Recovery 166 Analyz Prepart its 'Kg 'Kg 'Kg	Li: 49.5 ed By:	mits - 185 MT MT MT RL 0.01
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter Benzene Toluene	166 QC Batch: 48037	mg/Kg Date Anal	Dih yzed: 20 ration: 20 MI Rest <0.003 <0.005	ution 1 008-05-02 008-05-02 0L 0L 0L 47 25 07	Spike Amount 100 Un mg/ mg/	Percent Recovery 166 Analyz Prepart its 'Kg 'Kg 'Kg	Li: 49.5 ed By:	mits - 185 MT MT MT RL 0.01 0.01
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter Benzene Toluene Ethylbenzene	166 QC Batch: 48037 Flag	mg/Kg Date Anal	Dih yzed: 20 ration: 20 MI Rest <0.003 <0.005 <0.006 <0.007	ution 1 2008-05-02 2008-05-02 20L 25 07 24	Spike Amount 100 Un mg/ mg/ mg/	Percent Recovery 166 Analyz Prepart its 'Kg 'Kg 'Kg	Li 49.5 ed By: ed By:	mits - 185 MT MT MT RL 0.01 0.01 0.01
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	166 QC Batch: 48037 Flag Flag	mg/Kg Date Anal QC Prepa	Dih yzed: 20 ration: 20 MI Rest <0.003 <0.005 <0.006 <0.007 Units	ution 1 2008-05-02 2008-05-02 20L 211 25 07 24 Dilution	Spike Amount 100 Un mg/ mg/ mg/ mg/ Spike Amount	Percent Recovery 166 Analyz Prepar- its /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg	Li: 49.5 ed By: ed By: Reco Lir	mits - 185 - 185 - 185 - 185 - MT MT MT 0.01 0.01 0.01 0.01 0.01 0.01
n-Triacontane Method Blank (1) QC Batch: 48037 Prep Batch: 41303 Parameter Benzene Toluene Ethylbenzene Xylene	166 QC Batch: 48037 Flag Flag	mg/Kg Date Anal QC Prepa	Dih yzed: 20 ration: 20 MI Rest <0.003 <0.005 <0.006 <0.007	ution 1 2008-05-02 2008-05-02 20L 25 07 24	Spike Amount 100 Un mg/ mg/ mg/ mg/ Spike	Percent Recovery 166 Analyz Prepar its /Kg /Kg /Kg /Kg /Kg /Kg	Li: 49.5 ed By: ed By: d By: Recc Lin 70.4	mits - 185 MT MT RL 0.01 0.01 0.01 0.01 0.01

#### Laboratory Control Spike (LCS-1)

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QC Batch:	47925	Date Analyzed:	2008-04-29	Analyzed By:	$\mathbf{MT}$
Prep Batch:	41212	QC Preparation:	2008-04-29	Prepared By:	$\mathbf{MT}$

 $^2 Surrogate$  recovery outside control limits, but within method limits.  $\bullet$ 

Report Date: May 5, 2008	Work Order: 8042914
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch

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		LCS	5			Spike	М	atrix			Rec.
Param		Resu		Units	Dil.	Amoun	t R	esult	Rec.		Limit
GRO		9.53	1	mg/Kg	1	10.0	<	0.144	95	76	6.4 - 11
Percent recovery i	is based on the sp	oike result.	RPD is	based of	n the spike	and spike	duplicat	e result	•		
		LCSD			Spike	Matrix		F	lec.		RPI
Param		Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{L}$ i	imit	RPD	Limi
GRO		10.6	mg/Kg	; 1	10.0	< 0.144	106	76.4	- 115	11	20
Percent recovery i	is based on the sp	ike result.	RPD is	based of	n the spike	and spike	duplicat	e result	•		
		LCS	LC	CSD		ļ	Spike	LCS	LCSI	)	Rec.
Surrogate		Resul	t Re	sult	Units		mount	Rec.	Rec.		Limit
Trifluorotoluene (	TFT)	0.970	1	.11	mg/Kg	1	1.00	97	111	80	).3 - 11
4-Bromofluoroben		1.04			mg/Kg	1	1.00	104	107	70	).7 - 11
Laboratory Cor QC Batch: 479 Prep Batch: 412	32			nalyzed: paration	2008-04- 1: 2008-04-					vzed By ared By	
		LCS				Spike		atrix			Rec.
Param		Resu		Units	Dil.	Amoun		esult	Rec.		Limit
DRO		265	1	mg/Kg	1	250	• <	6.77	106	73	3.9 - 13
				oubeu es	i ine spine	and spike	aapnoav	c robuit			
		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	R Li	lec. mit	RPD	Limi
DRO		LCSD Result 262	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <6.77	Rec. 105	R Li 73.9	lec. mit - 138	RPD 1	RPI Limi 20
DRO	s based on the sp	LCSD Result 262	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <6.77	Rec. 105	R Li 73.9	lec. mit - 138		Limi
DRO	-	LCSD Result 262 bike result. 1	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <6.77 and spike	Rec. 105 duplicat	R Li 73.9 e result	lec. mit - 138		Limi 20
DRO Percent recovery i	LCS	LCSD Result 262 bike result. 1 LCSD	Units mg/Kg RPD is	Dil.	Spike Amount 250 n the spike	Matrix Result <6.77 and spike Spike	Rec. 105 duplicat	R Li 73.9 e result CS	tec. mit - 138 LCSD	1	Limi 20 Rec.
DRO Percent recovery i Surrogate	-	LCSD Result 262 bike result. 1	Units mg/Kg RPD is	Dil.	Spike Amount 250	Matrix Result <6.77 and spike	Rec. 105 duplicat Lo R	R Li 73.9 e result	lec. mit - 138	1	Limi 20 Rec. Limit
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1)	Units mg/Kg RPD is U m	Dil. 1 based or Jnits g/Kg nalyzed:	Spike Amount 250 n the spike Dil.	Matrix Result <6.77 and spike Spike Amount 100	Rec. 105 duplicat Lo R	R Li 73.9 e result CS ec.	Lec. mit - 138 - LCSD Rec. 121 Analy	1	Limi 20 Rec. Limit 0.5 - 18
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1)	Units mg/Kg RPD is U m Date Ai QC Pre	Dil. 1 based or Jnits g/Kg nalyzed:	Spike Amount 250 n the spike Dil. 1 2008-05-	Matrix Result <6.77 and spike Spike Amount 100	Rec. 105 duplicat Lo R 1	R Li 73.9 e result CS ec.	Lec. mit - 138 - LCSD Rec. 121 Analy	1 49 vzed By vred By	Limi 20 Rec. Limit 0.5 - 18 T: MT Rec.
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1) LCS Result	Units mg/Kg RPD is U Date An QC Pre	Dil. 1 based or Jnits g/Kg nalyzed: paration Units	Spike Amount 250 n the spike Dil. 1 2008-05-	Matrix Result <6.77 and spike Spike Amount -02 -02 Spike Amount	Rec. 105 duplicat Lo Ra 1	R Li 73.9 e result CS ec. 19	Lec. mit - 138 LCSD Rec. 121 Analy Prepa Rec.	1 49 vzed By vred By	Limi 20 Rec. Limit 5.5 - 18 T: MT : MT Rec. Limit
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1)	Units mg/Kg RPD is U Date An QC Pre	Dil. 1 based or Jnits g/Kg nalyzed: paration Units ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- :: 2008-05-	Matrix Result <6.77 and spike Spike Amount -02 -02 Spike Amount 1.00	Rec. 105 duplicat Re 1	R Li 73.9 e result CS ec. 19 atrix ssult 00347	Lec. mit - 138 LCSD Rec. 121 Analy Prepa Rec. 82	1 49 vzed By vred By 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT Rec. Limit 7.2 - 11
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1) LCS Result 0.825 0.821	Units mg/Kg RPD is U Date An QC Pre	Dil. 1 based or Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- : 2008-05- Dil.	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 Spike Amount 1.00 1.00	Rec. 105 duplicat Re 1 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	R Li 73.9 e result CS ec. 19 extrix esult 00347 00525	Lec. mit - 138 LCSD Rec. 121 Analy Prepa Rec. 82 82	1 49 vzed By vred By 77 77 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT : MT Rec. Limit 7.2 - 11 7.4 - 11
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 bike result. 1 LCSD Result 121 S-1) LCS Result 0.825	Units mg/Kg RPD is U Date An QC Pre	Dil. 1 based or Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg ng/Kg ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- 1 2008-05- Dil. 1	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 Spike Amount 1.00 1.00 1.00	Rec. 105 duplicat L0 R 1 	R Li 73.9 e result CS ec. 19 atrix esult 00347 00525 00607	Lec. mit - 138 LCSD Rec. 121 Analy Prepa Rec. 82	1 49 vzed By vred By 77 77 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT : MT Rec. Limit 7.2 - 11 7.4 - 11
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene Ethylbenzene	LCS Result 119 htrol Spike (LC 37	LCSD Result 262 Jike result. 1 LCSD Result 121 S-1) LCS Result 0.825 0.821	Units mg/Kg RPD is U Date An QC Pre	Dil. 1 based or Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- 1 2008-05- Dil. 1 1	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 Spike Amount 1.00 1.00	Rec. 105 duplicat L0 R 1 	R Li 73.9 e result CS ec. 19 extrix esult 00347 00525	Lec. mit - 138 LCSD Rec. 121 Analy Prepa Rec. 82 82	1 49 vzed By vred By 77 77 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT : MT Rec. Limit 7.2 - 11 7.4 - 11
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene Ethylbenzene Xylene	LCS Result 119 htrol Spike (LC 37 03	LCSD Result 262 vike result. 1 LCSD Result 121 S-1) LCS Result 0.825 0.821 0.806 2.41	Units mg/Kg RPD is Units Units m Date Ai QC Pre	Dil. 1 based of Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- :: 2008-05- Dil. 1 1 1 1 1	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 -02 -02 -02 -02 -02 -02 -	Rec.           105           duplicat           L0           R0           0           <0.	R Li 73.9 e result CS ec. 19 4 4 19 00347 00347 00347 00325 00607 00724	Lec. mit - 138 - LCSD Rec. 121 - Analy Prepa Rec. 82 82 81 80	1 49 vzed By vred By 77 77 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT Rec. Limit 7.2 - 11 7.4 - 11 7.4 - 11
Param DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene Ethylbenzene Xylene Percent recovery i	LCS Result 119 htrol Spike (LC 37 03	LCSD Result 262 vike result. 1 LCSD Result 121 S-1) LCS Result 0.825 0.821 0.806 2.41 vike result. 1 LCSD	Units mg/Kg RPD is Units Units m M Date An QC Pre	Dil. 1 based of Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg	Spike Amount 250 n the spike Dil. 1 2008-05- : 2008-05- : 2008-05- Dil. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 -02 -02 -02 -02 -02 -02 -	Rec. 105 duplicat Lo Ro 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R Li 73.9 e result CS ec. 19 atrix ssult 00347 00525 00607 00724 e result F	Lec. mit - 138 - LCSD Rec. 121 Analy Prepa Rec. 82 82 81 80 Rec.	1 49 77 77 77 77 77 77 77 78	Limi 20 Rec. Limit 5 - 18 7: MT : MT Rec. Limit 7.2 - 11 7.4 - 11 3.8 - 11 RPI
DRO Percent recovery i Surrogate n-Triacontane Laboratory Cor QC Batch: 480 Prep Batch: 413 Param Benzene Toluene Ethylbenzene Xylene	LCS Result 119 htrol Spike (LC 37 03	LCSD Result 262 vike result. 1 LCSD Result 121 S-1) LCS Result 0.825 0.821 0.806 2.41 vike result. 1 LCSD Result	Units mg/Kg RPD is Units Units m Date Ai QC Pre	Dil. 1 based of Jnits g/Kg nalyzed: paration Units ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg ng/Kg	Spike Amount           250           n the spike           Dil.           1           2008-05-           ::         2008-05-           ::         2008-05-           Dil.         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Matrix Result <6.77 and spike Spike Amount 100 -02 -02 -02 -02 -02 -02 -02 -02 -02 -	Rec. 105 duplicat Lo Re 1 1 1 1 1 1 1 1 1 1 1 1 1	R Li 73.9 e result CS ec. 19 4 4 19 00347 00347 00347 00347 00525 00607 00724 e result F L	Lec. mit - 138 - LCSD Rec. 121 Analy Prepa Rec. 82 82 81 80	1 49 vzed By vred By 77 77 77	Limi 20 Rec. Limit 5.5 - 18 7: MT : MT Rec. Limit 7.2 - 11 7.4 - 11 3.8 - 11

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Report Date: May 5, 2008 Lea Station to Monument 6 inch

	LCSD			Spike	Ma	rix		Re	ec.		RPD
Param	Result	Units		Amount	Res	ult	Rec.		mit	$\operatorname{RPD}$	Limit
Toluene	0.825	mg/K		1.00	< 0.0		82		- 116	0	20
Ethylbenzene	0.810	mg/K		1.00	< 0.0		81		- 112	0	20
Xylene	2.42	mg/K	g 1	3.00	< 0.0	0724	81	78.8	- 111	0	20
Percent recovery is based on the s	pike result	. RPD i	is based o	on the spike	and sp	ike dup	licate	result.			
	LC	rs i	LCSD			Spik	۵	LCS	LCSE	)	Rec.
Surrogate	Res		Result	Units	Dil.	Amou		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.8		0.797	mg/Kg	1	1.00		80	80		2 - 114
4-Bromofluorobenzene (4-BFB)	0.8		0.892	mg/Kg	1	1.00		89	89		7 - 114
<b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47925 Prep Batch: 41212	d Sample: 1	Date .	Analyzed reparatio							zed By red By:	
	N	40 I I	i opuratio	n. 2000 04	Sp	ike	Ma	atrix	Tiopa	·	Rec.
Param	Re	sult	Units	Dil.	Amo	ount	Re	esult	Rec.	]	Limit
GRO	3 11	20	mg/Kg	20	10	.0	1	060	600	40	1 - 154
Param GRO 4	Result 1040	Unit mg/k RPD i	Kg 20	10.0	10	60	Rec. -200	Lin 40.1 -		RPD 7	Limit 20
		. ה.רוזו						l.			
Percent recovery is based on the s	-			on the spike	and sp	_			1.00		~
-	-	MS	MSD	-	-	Spi	ke	MS	MSE		Rec.
Surrogate	R	MS esult	MSD Result	Units	Dil.	Spi Amo	ke unt	MS Rec.	Rec.	]	Limit
Surrogate Trifluorotoluene (TFT)	R 0	MS	MSD	-	-	Spi	ke unt	MS		16.	Limit 6 - 155
+Dromonuolobenzene (+DFB)	R 0	MS esult .995 32.2 157720 Date 4	MSD Result 0.939	Units mg/Kg mg/Kg : 2008-04	Dil. 20 20 -29	Spi Amo 1	ke unt	MS Rec. 100	Rec. 94 7310 Analy	16.	Limit 6 - 155 1 - 176 RM
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47932	R 0 5 6 8 1 Sample: 1	MS esult .995 32.2 157720 Date 4	MSD Result 0.939 73.1 Analyzed	Units mg/Kg mg/Kg : 2008-04	Dil. 20 20 -29	Spi Amo 1 1	ke unt	MS Rec. 100	Rec. 94 7310 Analy	] 16. 40. zed By: red By:	Limit 6 - 155 1 - 176 RM
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47932 Prep Batch: 41218 Param	R 0 5 6 8 I Sample: M Res	MS esult .995 32.2 157720 Date A QC Pr IS sult	MSD Result 0.939 73.1 Analyzed reparation Units	Units mg/Kg mg/Kg : 2008-04	Dil. 20 20 -29 -29 Spi Amo	Spi Amo 1 1 1	ke unt Ma Re	MS Rec. 100 8220	Rec. 94 7310 Analy Prepa Rec.	16. 40. zed By: red By:	Limit 6 - 155 1 - 176 RM RM RM Rec. Limit
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47932 Prep Batch: 41218 Param	R 0 5 6 8 I Sample: M Res	MS esult .995 32.2 157720 Date A QC Pr IS	MSD Result 0.939 73.1 Analyzed reparation	Units mg/Kg mg/Kg : 2008-04 n: 2008-04	Dil. 20 20 -29 -29 Spi	Spi Amo 1 1 1	ke unt Ma Re	MS Rec. 100 8220	Rec. 94 7310 Analy Prepa	16. 40. zed By: red By:	Limit 6 - 155 <u>1 - 176</u> RM RM RM Rec.
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) <b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47932 Prep Batch: 41218 Param DRO	R 0 5 6 8 1 Sample: M Res 2'	MS esult .995 32.2 157720 Date A QC Pr IS sult 79	MSD Result 0.939 73.1 Analyzed reparation Units mg/Kg	Units mg/Kg mg/Kg : 2008-04 n: 2008-04 Dil. 1	Dil. 20 20 -29 -29 Spi Amo 25	Spi Amo 1 1 1 ke ount 0	ke unt Ma Re	MS Rec. 100 8220 attrix sult 3.77	Rec. 94 7310 Analy Prepa Rec.	16. 40. zed By: red By:	Limit 6 - 155 <u>1 - 176</u> RM RM RM Rec.
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) <b>Matrix Spike (MS-1)</b> Spiked QC Batch: 47932 Prep Batch: 41218 Param DRO	R 0 5 6 E I Sample:	MS esult .995 32.2 157720 Date A QC Pr IS sult 79	MSD Result 0.939 73.1 Analyzed reparation Units mg/Kg	Units mg/Kg mg/Kg : 2008-04 n: 2008-04 Dil. 1 on the spike	Dil. 20 20 -29 -29 Spi Amo 25 and spi	Spi Amo 1 1 1 ke unt 0 ke dup	ke unt Ma Re	MS Rec. 100 8220 attrix sult 5.77 result.	Rec. 94 7310 Analy Prepa Rec. 112	16. 40. zed By: red By:	Limit 6 - 155 1 - 176 RM RM RM Rec. Limit 7 - 134
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked QC Batch: 47932	R 0 5 6 8 1 Sample: M Res 2'	MS esult .995 32.2 157720 Date A QC Pr IS sult 79	MSD Result 0.939 73.1 Analyzed reparation Units mg/Kg s based of	Units mg/Kg mg/Kg : 2008-04 n: 2008-04 Dil. 1	Dil. 20 20 -29 -29 Amo 25 and spi Mat	Spi Amo 1 1 1 ke ount 0 ke dup	ke unt Ma Re	MS Rec. 100 8220 attrix sult 3.77	Rec. 94 7310 Analy Prepa Rec. 112	16. 40. zed By: red By:	Limit 6 - 155 1 - 176 RM RM RM

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

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

⁵High surrogate recovery due to peak interference.

⁶High surrogate recovery due to peak interference.

Re	ult 2 158228 Date QC F IS	Units mg/Kg Analyzed: Preparation			nt R	4S .ec. 32	MSD Rec. 132 Analyz Prepar	Rec. Limit 49.5 - 1 zed By: M red By: M
13 ed Sample: M Re	158228 Date QC F IS	mg/Kg Analyzed:	1 : 2008-05	5-02			132 Analyz	49.5 - 1 zed By: M
M	Date QC F 1S							•
Re							*	July, M
				Spike	N	latrix		Rec
0'	sult	Units	Dil.	Amour		lesult	Rec.	
	794	mg/Kg	1	1.00		.00347	79	10 - 1
	782	mg/Kg	1	1.00		.00525	78 86	10 - 1
								10 - 1 10 - 1
							0	
MSD			Spike					RI
								RPD Lin
								$   \begin{array}{ccc}     3 & 2 \\     6 & 2   \end{array} $
2.73								4 2
spike result			n the spike	and spike	e duplicate	e result.		
Ν	ſS	MSD			Spike	MS	MSD	Rec.
			Units	Dil.	Amount	Rec.	Rec.	Limit
				1	1	99	114	66.1 - 1
1.	20	1.26	mg/Kg	1	1	120	126	63.8 - 1
	Date	Analyzed:	2008-04-2	29			Analyz	ed By: M
	ICVs True							Date
its	Conc.							Analyze
/Kg	1.00	0						
	2. spike result MSD Result 0.816 0.832 0.879 2.73 spike result M Res 0.9 1.1	MSD Result Unit 0.816 mg/H 0.832 mg/H 0.879 mg/H 2.73 mg/H spike result. RPD MS Result 0.987 1.20 Date ICVs True	2.63 mg/Kg spike result. RPD is based o MSD Result Units Dil. 0.816 mg/Kg 1 0.832 mg/Kg 1 0.879 mg/Kg 1 2.73 mg/Kg 1 spike result. RPD is based o MS MSD Result Result 0.987 1.14 1.20 1.26 Date Analyzed: ICVs I True F	2.63       mg/Kg       1         spike result.       RPD is based on the spike         MSD       Spike         Result       Units       Dil.       Amount         0.816       mg/Kg       1       1.00         0.832       mg/Kg       1       1.00         0.879       mg/Kg       1       1.00         2.73       mg/Kg       1       3.00         spike result.       RPD is based on the spike         MS       MSD         Result       Result       Units         0.987       1.14       mg/Kg         1.20       1.26       mg/Kg         Date       Analyzed:       2008-04-1         ICVs       ICVs       True         Found       Found       Found	2.63 $mg/Kg$ 13.00spike result. RPD is based on the spike and spikeMSDSpikeMatrResultUnitsDil.AmountResultUnitsDil.Amount0.816 $mg/Kg$ 11.00<0.0000.832 $mg/Kg$ 11.00<0.0000.879 $mg/Kg$ 11.00<0.0002.73 $mg/Kg$ 13.00<0.0002.73 $mg/Kg$ 13.00<0.000spike result. RPD is based on the spike and spikeMSMSDResultResultUnitsDil.0.9871.14 $mg/Kg$ 11.201.26 $mg/Kg$ 1Date Analyzed:2008-04-29ICVsICVsTrueFoundPercent	2.63         mg/Kg         1         3.00         <0	2.63         mg/Kg         1         3.00         <0.00724	2.63         mg/Kg         1         3.00         <0.00724

#### Standard (CCV-1)

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QC Batch: 47932

Date Analyzed: 2008-04-29

Analyzed By: RM

-	e: May 5, 2008 to Monument			Vork Order: 804 ation to Monum		<u> </u>	umber: 10 of 10 Lea County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2008-04-29
Standard (	(CCV-2)						
QC Batch:	47932		Date Analy	rzed: 2008-04-	29	Analy	yzed By: RM
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	279	112	85 - 115	2008-04-29
Standard (	(ICV-1)						
QC Batch:	48037		Date Analy	zed: 2008-05-	02	Analy	yzed By: MT
			ICVs True	ICVs Found	ICVs Percent	${f Percent}$ Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0886	89	85 - 115	2008-05-02
		mg/Kg	0.100	0.0874	87	85 - 115	2008-05-02
Toluene		mg/Kg	0.100	0.0863	86	85 - 115	2008-05-02
Toluene Ethylbenzer Xylene	ne	mg/Kg	0.300	0.258	86	85 - 115	2008-05-02

QC Batch: 480	37		Date Analyz	ed: 2008-05-0	)2	Analy	zed By: MT
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0865	86	85 - 115	2008-05-02
Toluene		mg/Kg	0.100	0.0863	86	85 - 115	2008-05-02
Ethylbenzene		mg/Kg	0.100	0.0882	88	85 - 115	2008-05-02
Xylene		mg/Kg	0.300	0.269	90	85 - 115	2008-05-02

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Company Name: K//	5114					đ	Phone #:					-						ΓλSI	S RE(	ANALYSIS REQUEST			
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Invoice to: (If different from above)	"PLAINS	5								,		€24				20.0							ete me
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158220 South	South WALL-4	4, 131	1	462	X				$\succ$		4/28/08/20	30		<u> </u>						<u> </u>			
227 EAST	EAST WALL - 3	.13'	1	ų,	F				*		11 0935	52		$\times$					 	 		 	
22 WEST WALL - 3	WALL-3	,13'	1	11	×				+		11 0927	£2		×									
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In the International States Inc.

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# Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

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Report Date: May 16, 2008

Work Order: 8051319

Project Location:Lea County, NMProject Name:Lea Station to Monument 6 inchProject Number:Lea Station to Monument 6 inchSRS#:SRS# 2001-11056

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
159684	SS-1	soil	2008-05-13	10:50	2008-05-13
159685	SS-2	soil	2008-05-13	10:53	2008-05-13
159686	SS-3	soil	2008-05-13	10:55	2008-05-13
159687	SS-4	soil	2008-05-13	10:58	2008-05-13
159688	SS-5	soil	2008-05-13	11:00	2008-05-13
159689	SS-6	soil	2008-05-13	11:03	2008-05-13
159690	SS-7	soil	2008-05-13	11:05	2008-05-13
159691	SS-8	soil	2008-05-13	11:08	2008-05-13
159692	SS-9	soil	2008-05-13	11:13	2008-05-13
159693	SS-10	soil	2008-05-13	11:16	2008-05-13
159694	SS-11	soil	2008-05-13	11:20	2008-05-13
159695	SS-12	soil	2008-05-13	11:23	2008-05-13
159696	SS-13	soil	2008-05-13	11:26	2008-05-13
159697	SS-14	soil	2008-05-13	11:30	2008-05-13
159698	SS-15	soil	2008-05-13	11:33	2008-05-13

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 25 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

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Michael abel

Dr. Blair Leftwich, Director

#### Standard Flags

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

Report Date: May 16, 2008 Lea Station to Monument 6 inch

## **Analytical Report**

#### Sample: 159684 - SS-1

Analysis: BTEX QC Batch: 48460			Analytical Mo Date Analyze		5 8021B 2008-05-15		Prep Meth Analyzed I	
Prep Batch: 41650		:	Sample Prepa	aration: 2	2008-05-15		Prepared E	By: DC
			$\operatorname{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units	Dil	ution	$\operatorname{RL}$
Benzene			< 0.0200		mg/Kg		2	0.0100
Toluene			< 0.0200		mg/Kg		2	0.0100
Ethylbenzene			0.0625		mg/Kg		2	0.0100
Xylene			0.114		mg/Kg		2	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	2	2.00	102	70 - 130
4-Bromofluorobenzene	(4-BFB)		2.56	mg/Kg	2	2.00	128	70 - 130

#### Sample: 159684 - SS-1

Analysis: QC Batch: Prep Batch:	TPH DRO 48423 41641		Analytical Me Date Analyze Sample Prepa	ed: 2008-0		Analyz	Method:N/Aacd By:LDacd By:LD
			$\operatorname{RL}$				
Parameter	Fl	ag	$\mathbf{Result}$	Un	its	Dilution	$\operatorname{RL}$
DRO			1000	mg/	Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	e	218	mg/Kg	1	100	218	10 - 250.4

#### Sample: 159684 - SS-1

Analysis: QC Batch: Prep Batch:	TPH GRO 48449 41629		Analytical Date Analy Sample Pre	zed:	S 8015B 2008-05-15 2008-05-14		Prep Meth Analyzed I Prepared I	By: DC
			$\mathbf{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	$\operatorname{RL}$
GRO			72.1		mg/Kg		10	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	$\operatorname{Amount}$	Recovery	Limits
Trifluorotolue	ene (TFT)	1	29.4	mg/Kg	10	10.0	294	70 - 130
4-Bromofluor	obenzene (4-BFB)	2	24.2	mg/Kg	10	10.0	242	70 - 130

¹High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

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Report Date: Ma Lea Station to M	• ,				er: 8051319 Monument 6	inch		mber: 4 of 2 County, NM
Sample: 159685	- SS-2							
Analysis: BT	EX		Analytical M	ethod:	S 8021B		Prep Metł	nod: S 5035
QC Batch: 484			Date Analyze		2008-05-15		Analyzed	
Prep Batch: 416			Sample Prepa		2008-05-15		Prepared	
			RL					
Parameter		Flag	Result		Units	I	Dilution	RL
Benzene			< 0.0200		mg/Kg		2	0.0100
Toluene			< 0.0200		mg/Kg		2	0.0100
Ethylbenzene			0.0326		mg/Kg		2	0.0100
Xylene			0.0953		mg/Kg		2	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene ('	TFT)		1.95	mg/Kg	2	2.00	98	70 - 130
1-Bromofluoroben	zene (4-BI	FB)	2.33	mg/Kg	2	2.00	116	70 - 130
QC Batch: 484 Prep Batch: 416 Parameter	41	lag	Date Analy Sample Pro RL Result		2008-05-14 2008-05-14 Units		Analyze Prepare Dilution	•
DRO	I	1ag	<u>960</u>		mg/Kg		1	50.0
5110		· · · · ·			mg/ng		<u>F</u>	
Surrogate	Flag	Result	Units	וים	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		294	mg/Kg		1	100	294	10 - 250.4
	66.0							10 2001
Sample: 159685			A 1 (* 1	<b></b>	0.00150			1 0 500
	H GRO		Analytical		S 8015B		Prep Meth	
QC Batch: 484			Date Analy		2008-05-15		Analyzed	
Prep Batch: 416	29		Sample Pre	eparation:	2008-05-14		Prepared 1	By: DC
Parameter	Г	lag	$\operatorname{RL}$ Result		Units		Dilution	RI
GRO	T	1045	26.2		mg/Kg		10	1.00
		·	<i>40.4</i>					
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate	ተውጥ)		12.3			10.0	123	
	1811		12.3	mg/Kg	10	10.0	123	70 - 130
Trifluorotoluene (' 4-Bromofluoroben		CD)	12.0	mg/Kg	10	10.0	120	70 - 130

³High surrogate recovery due to peak interference.

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Report Date: May 16, Lea Station to Monume					er: 8051319 Monument 6	inch	Page Numb Lea C	er: 5 of 25 ounty, NM
Sample: 159686 - SS	-3							
Analysis: BTEX			Analytical M	ethod:	S 8021B		Prep Method	l: S 5035
QC Batch: 48460			Date Analyze		2008-05-15		Analyzed By	
Prep Batch: 41650			Sample Prepa		2008-05-15		Prepared By	
			$\operatorname{RL}$					
Parameter	Flag		Result		Units	Ι	Dilution	$\operatorname{RL}$
Benzene			< 0.0200		mg/Kg		2	0.0100
Toluene			< 0.0200		mg/Kg		2	0.0100
Ethylbenzene			< 0.0200		mg/Kg		2	0.0100
Xylene			0.0539		mg/Kg		2	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	-	Recovery	Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	2	2.00	101	70 - 130
4-Bromofluorobenzene (	(4-BFB)		2.39	mg/Kg	$\frac{1}{2}$	2.00	120	70 - 130
Prep Batch: 41641			Sample Pre	eparation:	2008-05-14		Prepared E	By: LD
Parameter	Flag		RL Result	•	Units		Dilution	RL
	Flag			-			ŕ	•
Parameter DRO Surrogate Fl		esult	Result		Units mg/Kg	Spike Amount	Dilution 1 Percent	RL
DRO Surrogate Fl		esult 178	Result 736		Units mg/Kg	Spike	Dilution 1 Percent Recovery	RL 50.0 Recovery
DRO	lag Re		Result 736 Units	Dil Method: rzed:	Units mg/Kg ution 1 \$ 8015B 2008-05-15	Spike Amount 100	Dilution 1 Percent Recovery	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GRI QC Batch: 48449 Prep Batch: 41629	lag Re - <b>3</b> O		Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL	Dil Method: rzed:	Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GR QC Batch: 48449 Prep Batch: 41629 Parameter	lag Re		Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL Result	Dil Method: rzed:	Units mg/Kg ution 1 \$ 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By Dilution	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC : DC
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GR/ QC Batch: 48449	lag Re - <b>3</b> O		Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL	Dil Method: rzed:	Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC : DC
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GR/ QC Batch: 48449 Prep Batch: 41629 Parameter GRO	lag Re - <b>3</b> O	178	Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL Result 32.0	Dil Method: rzed: eparation:	Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By Dilution 10 Percent	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC : DC RL 1.00 Recovery
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GR/ QC Batch: 48449 Prep Batch: 41629 Parameter GRO Surrogate	lag Re - <b>3</b> O		Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL Result 32.0 Result	Dil Method: rzed: eparation: Units	Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution	Spike Amount 100 Spike Amount	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By Dilution 10 Percent Recovery	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC : DC RL 1.00 Recovery Limits
DRO Surrogate Fl n-Triacontane Sample: 159686 - SS Analysis: TPH GR/ QC Batch: 48449 Prep Batch: 41629 Parameter GRO	lag Re -3 O Flag	178	Result 736 Units mg/Kg Analytical Date Analy Sample Pre RL Result 32.0	Dil Method: rzed: eparation:	Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Dilution 1 Percent Recovery 178 Prep Method Analyzed By Prepared By Dilution 10 Percent	RL 50.0 Recovery Limits 10 - 250.4 I: S 5035 : DC : DC : DC RL 1.00 Recovery

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Report Date: May 16, 2008 Lea Station to Monument				er: 8051319 Monument 6	nch	0	mber: 6 of 2 County, NM
Sample: 159687 - SS-4							
Analysis: BTEX		Analytical M	ethod: {	S 8021B		Prep Meth	nod: S 5035
QC Batch: 48460		Date Analyze		2008-05-15		Analyzed	
Prep Batch: 41650		Sample Prepa		2008-05-15		Prepared 1	
		$\operatorname{RL}$					
Parameter	Flag	Result		Units	I	Dilution	RI
Benzene		< 0.0200		mg/Kg		<b>2</b>	0.0100
Toluene		< 0.0200		mg/Kg		2	0.0100
Ethylbenzene		0.0356		mg/Kg		2	0.010
Xylene	·	0.0683		mg/Kg		2	0.010
-		<b>_</b> .	<b>.</b>	-	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	、	2.00	mg/Kg	2	2.00	100	70 - 130
4-Bromofluorobenzene (4-B	<u>FB)</u>	2.47	mg/Kg	2	2.00	124	70 - 130
Analysis: TPH DRO QC Batch: 48423 Prep Batch: 41641		Analytical Date Analy Sample Pre	zed:	Mod. 8015 2008-05-14 2008-05-14	В	Prep Me Analyze Prepare	d By: LD
Parameter I		$\operatorname{RL}$ Result		Units		Dilution	RI
DRO	Flag	1020		mg/Kg		1	50.0
				0, 0			
					Spike	Percent	
	Result	Units	Dilı	ution	-		•
Surrogate Flag n-Triacontane	Result 168	Units mg/Kg		ution 1	Amount 100	Recovery 168	Limits
Surrogate Flag n-Triacontane					Amount	Recovery	Limits
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO		mg/Kg Analytical	Method:	1 S 8015B	Amount	Recovery 168 Prep Meth	Limits 10 - 250.4 nod: S 503
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449		mg/Kg Analytical Date Analy	Method: 'zed:	1 S 8015B 2008-05-15	Amount	Recovery 168 Prep Meth Analyzed	Limits 10 - 250.4 nod: S 5038 By: DC
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO		mg/Kg Analytical	Method: 'zed:	1 S 8015B	Amount	Recovery 168 Prep Meth	Limits 10 - 250.4 nod: S 5038 By: DC
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	168	mg/Kg Analytical Date Analy Sample Pre RL	Method: 'zed:	1 S 8015B 2008-05-15 2008-05-14	Amount 100	Recovery 168 Prep Meth Analyzed Prepared I	10 - 250.4 nod: S 503! By: DC By: DC
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter H		mg/Kg Analytical Date Analy Sample Pre RL Result	Method: 'zed:	1 S 8015B 2008-05-15 2008-05-14 Units	Amount 100	Recovery 168 Prep Meth Analyzed Prepared I Dilution	Limits 10 - 250.4 nod: S 5033 By: DC By: DC By: DC RI
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	168	mg/Kg Analytical Date Analy Sample Pre RL	Method: 'zed:	1 S 8015B 2008-05-15 2008-05-14	Amount 100	Recovery 168 Prep Meth Analyzed Prepared 1 Dilution 10	Limits 10 - 250.4 nod: S 5038 By: DC By: DC By: DC RI 1.00
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter I GRO	168 Flag	mg/Kg Analytical Date Analy Sample Pre RL Result <b>44.4</b>	Method: 'zed:	1 S 8015B 2008-05-15 2008-05-14 Units	Amount 100	Recovery 168 Prep Meth Analyzed Prepared 1 Dilution 10 Percent	Limits 10 - 250.4 nod: S 503; By: DC By: DC RI 1.00 Recovery
Surrogate Flag n-Triacontane Sample: 159687 - SS-4 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter H	168	mg/Kg Analytical Date Analy Sample Pre RL Result	Method: zed: paration:	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Amount 100 Spike	Recovery 168 Prep Meth Analyzed Prepared 1 Dilution 10	Limits 10 - 250.4 nod: S 5038 By: DC By: DC RI 1.00

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Report Date: Lea Station to		inch			er: 8051319 Monument 6	inch		mber: 7 of 28 a County, NM
Sample: 1596	388 - SS-5							
QC Batch: 4	BTEX 48460 41650		Analytical M Date Analyze Sample Prepa	ed: ź	5 8021B 2008-05-15 2008-05-15		Prep Metl Analyzed Prepared	By: DC
D	-	זר	RL		<b>T</b> T •.	Ŧ		DI
Parameter	<u>I</u>	Flag	Result	- ·	Units	1	Dilution	RL 0.0100
Benzene			<0.0200		mg/Kg		2	
Toluene			< 0.0200		mg/Kg		2	0.0100
Ethylbenzene			0.0415		mg/Kg		2	0.0100
Xylene			0.0796		mg/Kg		2	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	g Result	Units	Dilution	-	Recovery	Limits
Trifluorotoluen	e (TFT)		2.03	mg/Kg	2	2.00	102	70 - 130
	benzene (4-BF	B) 4	2.68	mg/Kg	2	2.00	134	70 - 130
Prep Batch: 4 Parameter	41641 Fl.	ag	Sample Pro RL Result		2008-05-14 Units		Prepare	d By: LD RI
DRO			895		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		119	mg/Kg		1	100	119	10 - 250.4
QC Batch: 4	3 <b>88 - SS-5</b> TPH GRO 48449 41629		Analytical Date Analy Sample Pre	yzed:	S 8015B 2008-05-15 2008-05-14		Prep Metl Analyzed Prepared	By: DC
Parameter	Fl	ag	$\operatorname{RL}$ Result		Units		Dilution	RI
GRO			60.7		mg/Kg		10	1.00
~		~~~		TT •-		Spike	Percent	Recovery
Surrogate		Fla		Units	Dilution			Limits
				/17/	10	10.0	100	70 100
Trifluorotoluen	ne (TFT) benzene (4-BF		12.0 13.0	mg/Kg mg/Kg	10 10	10.0 10.0	120 130	70 - 130 70 - 130

⁴High surrogate recovery due to peak interference.

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Report Date: May 16, 2008 Lea Station to Monument				er: 8051319 Monument 6 i	nch	•	mber: 8 of 2 County, NM
Sample: 159689 - SS-6							
Analysis: BTEX		Analytical M	ethod:	5 8021B		Prep Metł	nod: S $5035$
QC Batch: 48460		Date Analyze		2008-05-15		Analyzed	
Prep Batch: 41650		Sample Prepa		2008-05-15		Prepared 1	•
		$\operatorname{RL}$					
Parameter	Flag	Result		Units	E	Dilution	RL
Benzene		< 0.0200		mg/Kg		2	0.0100
Toluene		< 0.0200		mg/Kg		2	0.0100
Ethylbenzene		0.0265		mg/Kg		2	0.0100
Xylene	·····	0.0536		mg/Kg		2	0.0100
<b>C</b>	<b>1</b> 21 -	Damili	TI	D:1 - 1 -	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-B	<b>EB</b> )	$\begin{array}{c} 2.00\\ 2.49\end{array}$	mg/Kg mg/Kg	$2 \\ 2$	$\begin{array}{c} 2.00\\ 2.00\end{array}$	$\frac{100}{124}$	70 - 130 70 - 130
			0/ 0				
Sample: 159689 - SS-6							
Analysis: TPH DRO		Analytical	Method:	Mod. 8015H	3	Prep Me	ethod: N/A
		Date Analy		2008-05-14	-	Analyze	,
QC Batch: 48423			Dou.				
QC Batch: 48423 Prep Batch: 41641		Sample Pre		2008-05-14		Prepareo	•
Prep Batch: 41641		Sample Pre		2008-05-14		Prepareo	d By: LD
Prep Batch: 41641 Parameter F	Flag	Sample Pre RL Result		2008-05-14 Units	]	•	d By: LD
Prep Batch: 41641 Parameter F	Flag	Sample Pre		2008-05-14	]	Prepareo	d By: LD
Prep Batch: 41641 Parameter F DRO		Sample Pre RL Result 889	eparation:	2008-05-14 Units mg/Kg	Spike	Prepared Dilution 1 Percent	d By: LD RL 50.0 Recovery
Prep Batch: 41641 Parameter F DRO Surrogate Flag	Result	Sample Pre RL Result 889 Units	paration:	2008-05-14 Units mg/Kg	Spike Amount	Prepared Dilution 1 Percent Recovery	d By: LD RL 50.0 Recovery Limits
Prep Batch: 41641 Parameter F DRO		Sample Pre RL Result 889	paration:	2008-05-14 Units mg/Kg	Spike	Prepared Dilution 1 Percent	d By: LD RL 50.0 Recovery
Prep Batch: 41641 Parameter F DRO Surrogate Flag	Result	Sample Pre RL Result 889 Units	paration:	2008-05-14 Units mg/Kg	Spike Amount	Prepared Dilution 1 Percent Recovery	d By: LD RL 50.0 Recovery Limits
Prep Batch: 41641 Parameter F DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO	Result	Sample Pre RL Result 889 Units mg/Kg	paration: Dilu Method:	2008-05-14 Units mg/Kg ntion 4 1 S 8015B	Spike Amount	Prepared Dilution 1 Percent Recovery 176 Prep Meth	d By: LD RL 50.0 Recovery Limits 10 - 250.4
Prep Batch: 41641 Parameter F DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449	Result	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy	paration: Dilu Method: zed:	2008-05-14 Units mg/Kg 1tion A 1 S 8015B 2008-05-15	Spike Amount	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed 1	d By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC
Prep Batch: 41641 Parameter F DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO	Result	Sample Pre RL Result 889 Units mg/Kg	paration: Dilu Method: zed:	2008-05-14 Units mg/Kg ntion 4 1 S 8015B	Spike Amount	Prepared Dilution 1 Percent Recovery 176 Prep Meth	d By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC
Prep Batch: 41641 Parameter Flag DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	Result 176	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL	paration: Dilu Method: zed:	2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared J	H By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC By: DC By: DC
Prep Batch: 41641 Parameter F DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter H	Result	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL Result	paration: Dilu Method: zed:	2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared I Dilution	H By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC By: DC By: DC RL
Prep Batch: 41641 Parameter Flag DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	Result 176	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL	paration: Dilu Method: zed:	2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared J	H By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC By: DC By: DC RL
Prep Batch: 41641 Parameter Flag DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter F GRO	Result 176	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL Result 49.2	Method: zed: paration:	2008-05-14 Units mg/Kg ntion A 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared I Dilution 10 Percent	d By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC By: DC RL 1.00 Recovery
Prep Batch: 41641 Parameter Flag DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter F GRO Surrogate	Result 176	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL Result 49.2 Result	Method: zed: paration: Units	2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution	Spike Amount 100 I Spike Amount	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared I Dilution 10 Percent Recovery	d By: LD RL 50.0 Recovery Limits 10 - 250.4 nod: S 5035 By: DC By: DC RL 1.00 Recovery Limits
Prep Batch: 41641 Parameter Flag DRO Surrogate Flag n-Triacontane Sample: 159689 - SS-6 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter F GRO	Result 176 Flag Flag	Sample Pre RL Result 889 Units mg/Kg Analytical I Date Analy Sample Pre RL Result 49.2	Method: zed: paration:	2008-05-14 Units mg/Kg ntion A 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100	Prepared Dilution 1 Percent Recovery 176 Prep Meth Analyzed I Prepared I Dilution 10 Percent	d By: LD RI 50.0 Recovery Limits 10 - 250.4 Nod: S 5035 By: DC By: DC RI 1.00 Recovery

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Report Date: May 16, 2008 Lea Station to Monument 6 inc	ch			er: 8051319 Monument 6	inch	0	mber: 9 of 25 . County, NM
Sample: 159690 - SS-7							
Analysis: BTEX		Analytical M	ethod:	5 8021B		Prep Meth	nod: S 5035
QC Batch: 48460		Date Analyze		2008-05-15		Analyzed	
Prep Batch: 41650		Sample Prepa		2008-05-15		Prepared 1	
		$\operatorname{RL}$					
Parameter Fla	g	$\operatorname{Result}$		Units	L	Dilution	$\operatorname{RL}$
Benzene		< 0.0200		mg/Kg		2	0.0100
Toluene		< 0.0200		mg/Kg		2	0.0100
Ethylbenzene		0.0380		mg/Kg		2	0.0100
Xylene		0.0832		mg/Kg		2	0.0100
~		<b>.</b> -	<b></b>		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	2	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		2.54	mg/Kg	2	2.00	127	70 - 130
QC Batch: 48423 Prep Batch: 41641 Parameter Flag		Date Analy Sample Pre RL Result		2008-05-14 2008-05-14 Units		Analyzed Prepared Dilution	-
		886	<u> </u>	mg/Kg		1	50.0
JRD					<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	Result	Units	Dily	ition	Spike Amount	Percent Becovery	Recovery Limits
Surrogate Flag	Result 128	Units mg/Kg		ıtion 1	Spike Amount 100	Recovery 128	Limits 10 - 250.4
DRO Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629			Method: vzed:		Amount	Recovery	Limits 10 - 250.4 aod: S 5035 By: DC
Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449		mg/Kg Analytical Date Analy	Method: vzed:	1 S 8015B 2008-05-15	Amount	Recovery 128 Prep Meth Analyzed 1	Limits 10 - 250.4 aod: S 5035 By: DC
Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter Flag		mg/Kg Analytical Date Analy Sample Pre RL Result	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14 Units	Amount 100	Recovery 128 Prep Meth Analyzed I Prepared H	Limits 10 - 250.4 aod: S 5035 By: DC By: DC By: DC RL
Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter Flag		mg/Kg Analytical Date Analy Sample Pre RL	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14	Amount 100	Recovery 128 Prep Meth Analyzed I Prepared I	Limits 10 - 250.4 aod: S 5035 By: DC By: DC By: DC
Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629		mg/Kg Analytical Date Analy Sample Pre RL Result <b>55.7</b> Result	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution	Amount 100 Spike	Recovery 128 Prep Meth Analyzed D Prepared H Dilution 10 Percent Recovery	Limits 10 - 250.4 aod: S 5035 By: DC By: DC RL 1.00 Recovery Limits
Surrogate Flag n-Triacontane Sample: 159690 - SS-7 Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter Flag GRO	128	mg/Kg Analytical Date Analy Sample Pre RL Result <b>55.7</b>	Method: vzed: eparation:	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Amount 100 Spike	Recovery 128 Prep Meth Analyzed D Prepared H Dilution 10 Percent	Limits 10 - 250.4 aod: S 5035 By: DC By: DC RL 1.00 Recovery

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Report Date: Lea Station to						r: 8051319 Ionument 6 i	nch	•	ber: 10 of 2 County, NM
Sample: 159	691 - SS-8								
Analysis:	BTEX			Analytical M	lethod:	S 8021B		Prep Meth	od: S 503
2	48460			Date Analyz		2008-05-15		Analyzed	
•	41650			Sample Prep		2008-05-15		Prepared 1	-
				$\mathbf{RL}$					
Parameter		Flag		Result		Units	D	ilution	RI
Benzene				< 0.0200		mg/Kg		2	0.010
Toluene				< 0.0200		mg/Kg		2	0.010
Ethylbenzene				0.0325		mg/Kg		2	0.010
Xylene				0.0656		mg/Kg		2	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotolue				1.96	mg/Kg	2	2.00	98	70 - 130
4-Bromofluoro	benzene (4-E	SFB)		2.55	mg/Kg	2	2.00	128	70 - 130
Parameter	41641	Flag		Sample Pr RL Result	eparation:	Units		Prepared Dilution	RI
DRO		_		820		mg/Kg		1	50.0
							Spike	Percent	Recovery
Surrogate	Flag		Result	Units			Amount	Recovery	Limits
n-Triacontane	5		260	mg/Kg		1	100	260	10 - 250.4
	691 - SS-8								
Sample: 159				Analytical	Method:	S 8015B		Prep Meth	od: S 503
-	TPH GRO			Date Analy		2008-05-15		Analyzed 1	
- Analysis:	TPH GRO 48449					2008-05-14		Prepared I	By: DC
Analysis: QC Batch:				Sample Pre	eparation:	2000 00 11			
Analysis: QC Batch: Prep Batch:	48449 41629			RL	eparation:				<b></b>
Analysis: QC Batch: Prep Batch: Parameter	48449 41629	Flag		RL Result	eparation:	Units		Dilution	RI
- Analysis: QC Batch:	48449 41629	Flag		RL	eparation:		]	Dilution	
Analysis: QC Batch: Prep Batch: Parameter GRO	48449 41629	Flag	Flog	RL Result 51.0		Units mg/Kg	I	10 Percent	1.00 Recovery
Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	48449 41629	Flag	Flag	RL Result 51.0 Result	Units	Units mg/Kg Dilution	Spike Amount	10 Percent Recovery	1.00 Recovery Limits
Analysis: QC Batch: Prep Batch: Parameter	48449 41629 ne (TFT)		Flag	RL Result 51.0		Units mg/Kg	I	10 Percent	1.00 Recovery

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Report Date: Lea Station t	• •		1			r: 8051319 fonument 6 i	nch	Page Num Lea	County, NN
Sample: 159	9692 - SS-	9							
Analysis:	BTEX			Analytical Me		S 8021B		Prep Met	
QC Batch:	48448			Date Analyze		2008-05-15		Analyzed	•
Prep Batch:	41629			Sample Prepa	ration:	2008-05-14		Prepared	By: DC
				RL					
Parameter		Flag	5	Result		Units	I	Dilution	RI
Benzene				< 0.0500		mg/Kg		5	0.0100
Toluene				< 0.0500		mg/Kg		5	0.0100
Ethylbenzene	2			< 0.0500		mg/Kg		5	0.0100
Xylene				0.0756		mg/Kg		5	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotolue				5.62	mg/Kg	5	5.00	112	70 - 130
4-Bromofluor	obenzene (4	<u>t-BFB)</u>		6.08	mg/Kg	5	5.00	122	70 - 130
QC Batch:	TPH DRO 48423 41641	)		Analytical I Date Analy Sample Pre	zed:	Mod. 8015 2008-05-14 2008-05-14		Prep Me Analyze Prepare	d By: LD
QC Batch: Prep Batch:	48423			Date Analy Sample Pre RL	zed:	2008-05-14 2008-05-14		Analyze Prepare	d By: LD d By: LD
QC Batch: Prep Batch: Parameter	48423	) Flag		Date Analy Sample Pre RL Result	zed:	2008-05-14 2008-05-14 Units		Analyze Prepare Dilution	d By: LD d By: LD
QC Batch: Prep Batch: Parameter	48423			Date Analy Sample Pre RL	zed:	2008-05-14 2008-05-14		Analyze Prepare	d By: LD d By: LD
QC Batch: Prep Batch: Parameter DRO	48423 41641	Flag	Decult	Date Analy Sample Pre RL Result 724	zed: paration:	2008-05-14 2008-05-14 Units mg/Kg	Spike	Analyze Prepare Dilution 1 Percent	d By: LD d By: LD RI 50.0 Recovery
QC Batch: Prep Batch: Parameter DRO Surrogate	48423 41641 Fla	Flag	Result	Date Analy Sample Pre RL Result 724 Units	zed: paration: Dilu	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery	d By: LD d By: LD RI 50.0 Recovery Limits
QC Batch: Prep Batch: Parameter DRO Surrogate	48423 41641 Fla	Flag	Result 155	Date Analy Sample Pre RL Result 724	zed: paration: Dilu	2008-05-14 2008-05-14 Units mg/Kg	Spike	Analyze Prepare Dilution 1 Percent	d By: LD d By: LD RI 50.0 Recovery Limits
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane	48423 41641 Fla	Flag		Date Analy Sample Pre RL Result 724 Units	zed: paration: Dilu	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery	d By: LD d By: LD RI 50.0 Recovery Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis:	48423 41641 Fla	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg	zed: paration: Dilu	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery 155	d By: LD d By: LD <u>RI</u> 50.0 Recovery Limits 10 - 250.4
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis:	48423 41641 Fla	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg	zed: paration: Dilu Method:	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery 155 Prep Meth	d By: LD d By: LD <u>RI</u> 50.0 Recovery Limits 10 - 250.4
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159	48423 41641 Fla 9692 - SS-9 TPH GRC	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg	zed: paration: Dilu Method: zed:	2008-05-14 2008-05-14 Units mg/Kg 1tion 1 S 8015B	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery 155	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5038 By: DC
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch:	48423 41641 Fla 9692 - SS-4 TPH GRO 48449	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg Analytical I Date Analy Sample Pre RL	zed: paration: Dilu Method: zed:	2008-05-14 2008-05-14 Units mg/Kg 1tion 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 155 Prep Meth Analyzed Prepared	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 503: By: DC By: DC By: DC
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch:	48423 41641 Fla 9692 - SS-4 TPH GRO 48449	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg Analytical I Date Analy Sample Pre	zed: paration: Dilu Method: zed:	2008-05-14 2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 155 Prep Meth Analyzed	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5038 By: DC By: DC By: DC RI
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	48423 41641 Fla 9692 - SS-4 TPH GRO 48449	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg Analytical I Date Analy Sample Pre RL Result	zed: paration: Dilu Method: zed:	2008-05-14 2008-05-14 Units mg/Kg 1tion 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Analyze Prepare	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5038 By: DC By: DC RI 1.00
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	48423 41641 Fla 9692 - SS-4 TPH GRO 48449	Flag ag 9	155	Date Analy Sample Pre RL Result 724 Units mg/Kg Analytical I Date Analy Sample Pre RL Result 57.5	zed: paration: Dilu Method: zed: paration:	2008-05-14 2008-05-14 Units mg/Kg ntion 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Analyze Prepare	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 503: By: DC By: DC RI 1.00 Recovery
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	48423 41641 Fla P692 - SS-4 TPH GRO 48449 41629	Flag ag 9		Date Analy Sample Pre RL Result 724 Units mg/Kg Analytical I Date Analy Sample Pre RL Result	zed: paration: Dilu Method: zed:	2008-05-14 2008-05-14 Units mg/Kg 1 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100 Spike	Analyze Prepare	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 503; By: DC By: DC RI 1.00

Lea Station to	May 16, 2008 Monument 6 incl	h	,		r: 8051319 Ionument 6 i	nch	•	ber: 12 of 2 County, NN
Sample: 1596	393 - SS-10							
Analysis: I	BTEX		Analytical Me	ethod: S	5 8021B		Prep Meth	nod: S 5035
0	184 <b>6</b> 0		Date Analyze		2008-05-15		Analyzed	
=	41650		Sample Prepa		2008-05-15		Prepared 1	•
			$\operatorname{RL}$					
Parameter	Flag	g	Result		Units	]	Dilution	RI
Benzene			< 0.0200		mg/Kg		2	0.0100
Toluene			< 0.0200		mg/Kg		2	0.0100
Ethylbenzene			0.0608		mg/Kg		2	0.0100
Xylene			0.114		mg/Kg		2	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	-	Recovery	Limits
Trifluorotoluen			2.09	mg/Kg	2	2.00	104	70 - 130
4-Bromofluorol	benzene (4-BFB)	6	2.84	mg/Kg	2	2.00	142	70 - 130
•	48423 41641		Date Analy Sample Pre RL		2008-05-14 2008-05-14		Analyzee Preparec	•
Parameter	Flag		Result		Units		Dilution	RL
DRO			870		mg/Kg		1	50.0
						Spike	Percent	Recovery
Ö	Flag	Result	Units	Dilı	ition	Amount	Recovery	Limits
Surrogate			17.5					
	v	174	mg/Kg		1	100	174	10 - 250.4
QC Batch: 4		174	mg/Kg Analytical I Date Analy Sample Pre	Method: zed:	1 S 8015B 2008-05-15 2008-05-14	100	174 Prep Meth Analyzed I Prepared F	od: S 5035 By: DC
n-Triacontane Sample: 1596 Analysis: 7 QC Batch: 4 Prep Batch: 4	3 <b>93 - SS-10</b> ГРН GRO 18449 11629	174	Analytical I Date Analy Sample Pre RL	Method: zed:	S 8015B 2008-05-15 2008-05-14		Prep Meth Analyzed I Prepared I	By: DC By: DC
n-Triacontane Sample: 1596 Analysis: 7 QC Batch: 4 Prep Batch: 4 Parameter	<b>393 - SS-10</b> ГРН GRO 18449	174	Analytical I Date Analy Sample Pre RL Result	Method: zed:	S 8015B 2008-05-15 2008-05-14 Units		Prep Meth Analyzed I Prepared I Dilution	od: S 5038 By: DC By: DC RI
n-Triacontane Sample: 1596 Analysis: 7 QC Batch: 4	3 <b>93 - SS-10</b> ГРН GRO 18449 11629	174	Analytical I Date Analy Sample Pre RL	Method: zed:	S 8015B 2008-05-15 2008-05-14		Prep Meth Analyzed I Prepared I Dilution 20	od: S 5035 By: DC By: DC RI 1.00
n-Triacontane Sample: 1596 Analysis: 7 QC Batch: 4 Prep Batch: 4 Parameter GRO	3 <b>93 - SS-10</b> ГРН GRO 18449 11629		Analytical I Date Analy Sample Pre RL Result <b>64.1</b>	Method: zed: paration:	S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike	Prep Meth Analyzed J Prepared F Dilution 20 Percent	od: S 5035 By: DC By: DC RL 1.00 Recovery
1-Triacontane Sample: 1596 Analysis: 7 QC Batch: 4 Prep Batch: 4 Parameter	593 - SS-10 FPH GRO 18449 11629 Flag	174 Flag	Analytical I Date Analy Sample Pre RL Result	Method: zed:	S 8015B 2008-05-15 2008-05-14 Units		Prep Meth Analyzed I Prepared I Dilution 20	od: S 5035 By: DC By: DC RI 1.00

⁶High surrogate recovery due to peak interference.

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	May 16, 2008 Monument 6 inch	a			er: 8051319 fonument 6 i	inch	Ŷ	ber: 13 of 2 County, NM
Sample: 159	694 - SS-11							
	BTEX		Analytical M		S 8021B		Prep Meth	
•	48460 41650		Date Analyze Sample Prepa		2008-05-15 2008-05-15		Analyzed I Prepared I	
i tep Datcii.	41000		Sample 1 Tepa	11 au 1011. 4	2000-00-10		i iepaieu i	зу. DC
_			RL					
Parameter	Flag	r >	Result		Units	I	Dilution	RI
Benzene			<0.0200		mg/Kg		2	0.0100
Toluene Ethylbongong			< 0.0200 < 0.0200		mg/Kg mg/Kg		2	0.0100 0.0100
Ethylbenzene Xylene			< 0.0200 <b>0.0245</b>		mg/Kg mg/Kg		$2 \\ 2$	0.0100
Tylene			0.0240	<b>.</b>	mg/ Kg_		2	0.0100
_						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotoluer			2.01	mg/Kg	2	2.00	100	70 - 130
4-DIOINOITUOIO	benzene (4-BFB)		2.49	mg/Kg	2	2.00	124	70 - 130
Sample: 159	694 - SS-11							
-	TPH DRO		Amplentical	Mathada	M.J. 9015	р	Dura Ma	41J. NT/A
	48423		Analytical Date Analy		Mod. 8015 2008-05-14		Prep Me Analyzed	,
-	48423 41641		Sample Pre				Prepared	•
Trep Daten.	11041		Dampie I I	<i>paration.</i>	2000-00-14		Tieparec	Dy. DD
			RL					
Parameter	Flag		Result	·	Units		Dilution	RL
DRO			610		mg/Kg		1	50.0
						Spike	Percent	Recovery
							_	÷•••.
	Flag	Result	Units	Dilu	ution	Amount	Recovery	Limits
Surrogate n-Triacontane	Flag	Result 223	Units mg/Kg		ution1	Amount 100	Recovery 223	$\frac{\text{Limits}}{10 - 250.4}$
n-Triacontane								
n-Triacontane								
n-Triacontane Sample: 159								10 - 250.4
n-Triacontane Sample: 1590 Analysis: '	694 - SS-11		mg/Kg Analytical Date Analy	Method: vzed:	1	100	223	<u>10 - 250.4</u> od: S 5035
n-Triacontane Sample: 159 Analysis: 2 QC Batch: 4	<b>694 - SS-11</b> TPH GRO		mg/Kg Analytical	Method: vzed:	1 S 8015B	100	223 Prep Meth	10 - 250.4 od: S 5038 3y: DC
n-Triacontane Sample: 159 Analysis: 7 QC Batch: 4 Prep Batch: 4	<b>694 - SS-11</b> TPH GRO 48449 41629		mg/Kg Analytical Date Analy Sample Pre RL	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14	100	223 Prep Meth Analyzed I Prepared F	10 - 250.4 od: S 5035 3y: DC 3y: DC
n-Triacontane Sample: 1590 Analysis: 7 QC Batch: 4 Prep Batch: 4 Parameter	<b>694 - SS-11</b> TPH GRO 48449		mg/Kg Analytical Date Analy Sample Pre RL Result	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14 Units	100	223 Prep Meth Analyzed I Prepared F Dilution	10 - 250.4 od: S 5035 3y: DC 3y: DC RL
n-Triacontane Sample: 159 Analysis: 7 QC Batch: 4 Prep Batch: 4	<b>694 - SS-11</b> TPH GRO 48449 41629		mg/Kg Analytical Date Analy Sample Pre RL	Method: vzed:	1 S 8015B 2008-05-15 2008-05-14	100	223 Prep Meth Analyzed I Prepared F	10 - 250.4 od: S 5038 3y: DC 3y: DC RI
n-Triacontane Sample: 1590 Analysis: 2 QC Batch: 2 Prep Batch: 2 Parameter GRO	694 - SS-11 TPH GRO 48449 41629 Flag	223	mg/Kg Analytical Date Analy Sample Pre RL Result <b>27.7</b>	Method: vzed: eparation:	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	100 Spike	223 Prep Meth Analyzed I Prepared F Dilution 10 Percent	10 - 250.4 od: S 5038 3y: DC 3y: DC RI 1.00 Recovery
n-Triacontane Sample: 1590 Analysis: 2 QC Batch: 2 Prep Batch: 2 Parameter GRO Surrogate	694 - SS-11 TPH GRO 48449 41629 Flag		mg/Kg Analytical Date Analy Sample Pre RL Result 27.7 Result	Method: vzed: eparation: Units	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution	100 Spike Amount	223 Prep Meth Analyzed I Prepared F Dilution 10 Percent Recovery	10 - 250.4 od: S 5035 3y: DC By: DC RI 1.00 Recovery Limits
n-Triacontane Sample: 1590 Analysis: 7 QC Batch: 7 Prep Batch: 7 Parameter GRO Surrogate Trifluorotoluen	694 - SS-11 TPH GRO 48449 41629 Flag	223	mg/Kg Analytical Date Analy Sample Pre RL Result <b>27.7</b>	Method: vzed: eparation:	1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	100 Spike	223 Prep Meth Analyzed I Prepared F Dilution 10 Percent	10 - 250.4 od: S 503; 3y: DC 3y: DC RI 1.00 Recovery

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•	: May 16, 2008 to Monument (				er: 8051319 Ionument 6 i	nch	Page Number: 14 of Lea County, N		
Sample: 159	9695 - SS-12								
Analysis: QC Batch: Prep Batch:	BTEX 48460 41650		Analytical M Date Analyze Sample Prepa	ed: ź	S 8021B 2008-05-15 2008-05-15		Prep Met Analyzed Prepared	By: DC	
			RL						
Parameter		Flag	$\operatorname{Result}$		Units	J	Dilution	RI	
Benzene			< 0.0200		mg/Kg		2	0.0100	
Toluene			< 0.0200		mg/Kg		2	0.0100	
Ethylbenzene	<u>}</u>		< 0.0200		mg/Kg		<b>2</b>	0.0100	
Xylene			0.0437	····	mg/Kg		2	0.0100	
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolue	(TFT)	1 145	2.04	mg/Kg	2	2.00	102	70 - 130	
	obenzene (4-B	FR)	2.55	mg/Kg	$\frac{2}{2}$	2.00	102	70 - 130	
	TPH DRO 48423		Analytical Date Analy		Mod. 8015 2008-05-14		Prep M Analyze	,	
QC Batch:	48423 41641			vzed:	2008-05-14	_	-	ed By: LD	
QC Batch: Prep Batch: Parameter	48423 41641	Flag	Date Analy Sample Pre RL Result	vzed:	2008-05-14 2008-05-14 Units	_	Analyze	ed By: LD ed By: LD RI	
QC Batch: Prep Batch: Parameter	48423 41641	Flag	Date Analy Sample Pre RL	vzed:	2008-05-14 2008-05-14	_	Analyze Prepare	ed By: LD ed By: LD RI	
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	48423 41641	Result	Date Analy Sample Pre RL Result 837 Units	vzed: eparation:	2008-05-14 2008-05-14 Units mg/Kg	_	Analyze Prepare Dilution	ed By: LD ed By: LD <u>RI</u> 50.0 Recovery Limits	
QC Batch: Prep Batch: Parameter DRO	48423 41641 		Date Analy Sample Pre RL Result 837	vzed: eparation: Dilu	2008-05-14 2008-05-14 Units mg/Kg	Spike	Analyze Prepare Dilution 1 Percent	ed By: LD ed By: LD <u>RI</u> 50.0 Recovery Limits	
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch:	48423 41641 	Result	Date Analy Sample Pre RL Result 837 Units	Zed: eparation: Dih Dih Method: rzed:	2008-05-14 2008-05-14 Units mg/Kg ution	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery	ed By: LD ed By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 5038 By: DC	
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	48423 41641 Flag e 9695 - SS-12 TPH GRO 48449 41629	Result	Date Analy Sample Pre- RL Result 837 Units mg/Kg Analytical Date Analy Sample Pre- RL Result	Zed: eparation: Dih Dih Method: rzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 166 Prep Met Analyzed Prepared Dilution	ed By: LD ed By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 5038 By: DC By: DC By: DC RI	
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch:	48423 41641 Flag e 9695 - SS-12 TPH GRO 48449 41629	Result 166	Date Analy Sample Pre- RL Result 837 Units mg/Kg Analytical Date Analy Sample Pre- RL	Zed: eparation: Dih Dih Method: rzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 166 Prep Met Analyzed Prepared	ed By: LD ed By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 503! By: DC By: DC	
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	48423 41641 Flag e 9695 - SS-12 TPH GRO 48449 41629	Result 166 Flag	Date Analy Sample Pre- RL Result 837 Units mg/Kg Analytical Date Analy Sample Pre- RL Result 41.1	Zed: eparation: Dih Dih Method: rzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100 Spike	Analyze Prepare Dilution 1 Percent Recovery 166 Prep Meth Analyzed Prepared Dilution 10 Percent	ed By: LD ed By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 503: By: DC By: DC RI 1.00 Recovery	
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	48423 41641 Flag e 9695 - SS-12 TPH GRO 48449 41629 H	Result 166	Date Analy Sample Pre- RL Result 837 Units mg/Kg Analytical Date Analy Sample Pre- RL Result 41.1	Zed: Pparation: Dilu Method: Zed: Pparation:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Analyze Prepare Dilution 1 Percent Recovery 166 Prep Metl Analyzed Prepared Dilution 10	ed By: LD ed By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 503; By: DC By: DC RI 1.00	

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Report Date: May 16, 200 Lea Station to Monument				er: 8051319 Monument 6	inch	Page Numbe Lea C	er: 15 of 25 County, NM
Sample: 159696 - SS-1:	3						
Analysis: BTEX		Analytical M	lethod:	S 8021B		Prep Metho	d: S 5035
QC Batch: 48448		Date Analyz		2008-05-15		Analyzed By	
Prep Batch: 41629		Sample Prep		2008-05-14		Prepared By	
		$\operatorname{RL}$					
Parameter	Flag	Result		Units		Dilution	$\operatorname{RL}$
Benzene		< 0.0200		mg/Kg		2	0.0100
Toluene		< 0.0200		mg/Kg		2	0.0100
Ethylbenzene		< 0.0200		mg/Kg		2	0.0100
Xylene		0.0208	· · · · · · · · · · · · · · · · · · ·	mg/Kg	. <u></u>	2	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution			Limits
Trifluorotoluene (TFT)		2.18	mg/Kg		2.00	109	70 - 130
4-Bromofluorobenzene (4-1	BFB)	2.41	mg/Kg	2	2.00	120	70 - 130
QC Batch: 48423		Date Analy	yocu.	2008-05-14	<b>c</b>	Analyzed 1	By: LD
-		Sample Pr	eparation	2008-05-14	Į	Prepared 1	By: LD
Prep Batch: 41641	Flag	RL	eparation		l		
Prep Batch: 41641 Parameter	Flag	RL Result	eparation	Units		Dilution	RL
Prep Batch: 41641 Parameter	Flag	RL	eparation			Dilution1	RL 50.0
Prep Batch: 41641 Parameter DRO		RL Result <b>302</b>		Units mg/Kg	Spike	Dilution 1 Percent	RL 50.0 Recovery
Prep Batch: 41641 Parameter DRO Surrogate Flag		RL Result <b>302</b> Units		Units mg/Kg lution	Spike Amount	Dilution 1 Percent Recovery	RL 50.0 Recovery Limits
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane	Result 172	RL Result <b>302</b>		Units mg/Kg	Spike	Dilution 1 Percent	RL 50.0 Recovery
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1:	Result 172	RL Result <b>302</b> Units mg/Kg	Di	Units mg/Kg lution	Spike Amount	Dilution 1 Percent Recovery 172	RL 50.0 Recovery Limits 10 - 250.4
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO	Result 172	RL Result <b>302</b> Units	Di Method:	Units mg/Kg lution 1	Spike Amount 100	Dilution 1 Percent Recovery 172 Prep Method	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO	Result 172	RL Result <b>302</b> Units mg/Kg Analytical	Di Di Method: yzed:	Units mg/Kg lution 1 S 8015B 2008-05-15	Spike Amount 100	Dilution 1 Percent Recovery 172	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	Result 172	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pre RL	Di Di Method: yzed:	Units mg/Kg lution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter Parameter	Result 172	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pre RL Result	Di Di Method: yzed:	Units mg/Kg lution 1 \$ 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By Dilution	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC 8. RL
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter Parameter	Result 172	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pre RL	Di Di Method: yzed:	Units mg/Kg lution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC 8. RL
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter GRO	Result 172 3 Flag	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pro RL Result 19.3	Di Method: yzed: eparation:	Units mg/Kg lution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By Dilution 2 Percent	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629 Parameter GRO Surrogate	Result 172	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pre RL Result 19.3 Result	Di Method: yzed: eparation: Units	Units mg/Kg lution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution	Spike Amount 100 Spike Amount	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By Dilution 2 Percent Recovery	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC
Prep Batch: 41641 Parameter DRO Surrogate Flag n-Triacontane Sample: 159696 - SS-1: Analysis: TPH GRO QC Batch: 48449 Prep Batch: 41629	Result 172 3 Flag Flag	RL Result 302 Units mg/Kg Analytical Date Analy Sample Pro RL Result 19.3	Di Method: yzed: eparation:	Units mg/Kg lution 1 S 8015B 2008-05-15 2008-05-14 Units mg/Kg Dilution 2	Spike Amount 100 Spike	Dilution 1 Percent Recovery 172 Prep Method Analyzed By Prepared By Dilution 2 Percent	RL 50.0 Recovery Limits 10 - 250.4 d: S 5035 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC 7: DC

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Prep Met Analyzed Prepared lution 1 1 1 1 Percent Recovery 106	By: DC By: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery
Analyzed Prepared lution 1 1 1 1 Percent Recovery	By: DC By: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery
Prepared lution 1 1 1 1 1 Percent Recovery	By: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery
lution 1 1 1 1 1 Percent Recovery	RL 0.0100 0.0100 0.0100 0.0100 Recovery
1 1 1 1 Percent Recovery	0.0100 0.0100 0.0100 0.0100 Recovery
1 1 1 1 Percent Recovery	0.0100 0.0100 0.0100 0.0100 Recovery
1 1 1 Percent Recovery	0.0100 0.0100 0.0100 Recovery
1 1 Percent Recovery	0.0100 0.0100 Recovery
1 Percent Recovery	0.0100 Recovery
Percent Recovery	Recovery
Recovery	•
106	Limits
	70 - 130
125	70 - 130
Prepare	-
·1 /·	DI
	RL 50.0
<u> </u>	
Percent	Recovery
Recovery	Limits
153	10 - 250.4
Prep Meth	
Analyzed	
Prepared .	By: DC
1	~~~
	RL
1	1.00
Percent	Recovery
	Limits
	70 - 130
126	70 - 130
	Prep Me Analyze Prepare ilution 1 Percent Recovery 153 Prep Meth Analyzed Prepared ilution 1

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Lea Station t	: May 16, 2008 to Monument 6				er: 8051319 Aonument 6 i	nch		nber: 17 of 2 a County, NN
Sample: 15	9698 - SS-15							
Analysis:	BTEX		Analytical M		S 8021B		Prep Met	
QC Batch:	48448		Date Analyz		2008-05-15		Analyzed	•
Prep Batch:	41629		Sample Prep	aration:	2008-05-14		Prepared	By: DC
			$\operatorname{RL}$					
Parameter		Flag	Result		Units	]	Dilution	RI
Benzene			< 0.0100		mg/Kg		1	0.010
Toluene			< 0.0100		mg/Kg		1	0.010
Ethylbenzene	2		< 0.0100		mg/Kg		1	0.010
Xylene			< 0.0100		mg/Kg		1	0.010
						Spike	Percent	Recover
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue			1.06	mg/Kg	1	1.00	106	70 - 130
4-Bromofluor	obenzene (4-BH	FB)	1.15	mg/Kg	1	1.00	115	70 - 130
•	48423 41641		Date Anal Sample Pr	-	Mod. 8015 2008-05-14 2008-05-14	-	Analyze	d By: LD
Prep Batch:	41641		Sample Pr RL	yzed:	2008-05-14 2008-05-14		Analyze Prepare	d By: LD d By: LD
Prep Batch: Parameter	41641	lag	Sample Pr RL Result	yzed:	2008-05-14 2008-05-14 Units		Analyze Prepare Dilution	d By: LD d By: LD RI
Prep Batch: Parameter	41641	lag	Sample Pr RL	yzed:	2008-05-14 2008-05-14		Analyze Prepare	d By: LD d By: LD RI
Prep Batch: Parameter DRO	41641 F		Sample Pr RL Result <50.0	yzed: eparation:	2008-05-14 2008-05-14 Units mg/Kg	Spike	Analyze Prepare Dilution 1 Percent	d By: LD d By: LD RI 50.0 Recovery
Prep Batch: Parameter DRO Surrogate	41641 F F	Result	Sample Pr RL Result <50.0 Units	yzed: eparation:  Dilt	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery	d By: LD d By: LD RI 50.0 Recovery Limits
Prep Batch: Parameter DRO Surrogate	41641 F F		Sample Pr RL Result <50.0	yzed: eparation:  Dilt	2008-05-14 2008-05-14 Units mg/Kg	Spike	Analyze Prepare Dilution 1 Percent	d By: LD d By: LD RI 50.0 Recovery Limits
Prep Batch: Parameter DRO Surrogate n-Triacontane	41641 F F	Result	Sample Pr RL Result <50.0 Units	yzed: eparation:  Dilt	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery	d By: LD d By: LD RI 50.0 Recovery Limits
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis:	41641 F Flag	Result	Sample Pr RL Result <50.0 Units	yzed: eparation:  Dila	2008-05-14 2008-05-14 Units mg/Kg	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch:	41641 F Flag e 9698 - SS-15 TPH GRO 48449	Result	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5033 By: DC
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch:	41641 F Flag 9698 - SS-15 TPH GRO	Result	Sample Pr RL Result <50.0 Units mg/Kg	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B	Spike Amount	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5033 By: DC
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch:	41641 F Flag e 9698 - SS-15 TPH GRO 48449 41629	Result 107	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed Prepared	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 503: By: DC By: DC By: DC
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 158 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	41641 F Flag e 9698 - SS-15 TPH GRO 48449 41629	Result	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL Result	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed Prepared	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 5033 By: DC By: DC By: DC RI
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	41641 F Flag e 9698 - SS-15 TPH GRO 48449 41629	Result 107	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14	Spike Amount 100	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed Prepared Dilution 1	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 hod: S 5033 By: DC By: DC By: DC RI 1.00
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 159 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	41641 F Flag e 9698 - SS-15 TPH GRO 48449 41629	Result 107	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL Result <1.00	yzed: eparation: Dila Method: yzed: eparation:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-15 2008-05-14 Units mg/Kg	Spike Amount 100 Spike	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed Prepared Dilution 1 Percent	d By: LD d By: LD RI 50.0 Recovery Limits 10 - 250.4 nod: S 503; By: DC By: DC RI 1.00 Recovery
Prep Batch: Parameter DRO Surrogate n-Triacontane Sample: 15	41641 F Flag 9 9698 - SS-15 TPH GRO 48449 41629 F	Result 107	Sample Pr RL Result <50.0 Units mg/Kg Analytical Date Analy Sample Pro RL Result	yzed: eparation: Dili Method: yzed:	2008-05-14 2008-05-14 Units mg/Kg ution 1 S 8015B 2008-05-15 2008-05-14 Units	Spike Amount 100 Spike	Analyze Prepare Dilution 1 Percent Recovery 107 Prep Meth Analyzed Prepared Dilution 1 Percent	d By: LD d By: LD RI 50.( Recovery Limits 10 - 250.4 nod: S 5038 By: DC

Lea Station to Monu	iment 6 i	nch	Lea Si	tation to	Monument	6 inch		Lea	a Count	y, NM
Method Blank (1)	$\mathbf{QC}$	Batch: 48423								
QC Batch: 48423 Prep Batch: 41641			Date Ana QC Prepa	-	2008-05-14 2008-05-14				zed By: red By:	LD LD
			• .	MD	L					
Parameter	. <u></u> .	Flag		Resu			Units			R
DRO				<15	.8		mg/K	g		5(
						Spike	e I	Percent	Reco	overv
Surrogate	Flag	Result	Units	Di	lution	Amou		ecovery	Lin	
n-Triacontane		118	mg/Kg		1	100	<u></u>	118	30.9 -	146.4
Parameter Benzene Toluene		Flag		Re <0.00 <0.00	0150		Unit mg/K mg/K	g g		RI 0.0
Ethylbenzene Xylene				<0.00 <0.00			mg/K mg/K	-		0.0 0.0
Surrogate		Flag	Result	Units			Spike Amount	Percent Recovery	Li	over mits
Trifluorotoluene (TF' 4-Bromofluorobenzen	· ·	2)	$\frac{1.06}{1.02}$	mg/K mg/K			1.00 1.00	106 102		- 130 - 130
Method Blank (1) QC Batch: 48449 Prep Batch: 41629	QC	Batch: 48449	Date Ana QC Prepa	•	2008-05-15 2008-05-14			Analyz Prepar	ed By: ed By:	DC DC
Parameter		Flag		MD Resu			Units			RI
GRO				<0.73			mg/K			10
Surrogate		Flag	Result	Units	Dilut	tion	Spike Amount	Percent Recovery		cover mits
Trifluorotoluene (TF			1.18	mg/K	•		1.00	118		- 130
4-Bromofluorobenzen	e (4-BFI	3)	0.996	mg/K	g 1		1.00	100	70	- 130

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QC Batch:48460Date Analyzed:2008-05-15Analyzed By:DCPrep Batch:41650QC Preparation:2008-05-15Prepared By:DC

	)8 6 inch		Lea		rder: 8051 5 Monume			Page Nı L	umber: ea Cour	
					MDL					
Parameter	Ŧ	Flag			Result		Uni	its		RL
Benzene		0			00110		mg/			0.01
Toluene					00150		8, mg/			0.01
Ethylbenzene				<0.	00160		mg/			0.01
Xylene				<0.	00410		mg/	-		0.01
Surrogate		Flag	Result	Unit	s Di	ilution	Spike Amount	Percent Recovery		ecovery Limits
Trifluorotoluene (TFT)		1 105	1.06	mg/I		1	1.00	106		0 - 130
4-Bromofluorobenzene (4-I	3FB)		1.00 1.06	mg/I		1	1.00	100		0 - 130 0 - 130
QC Batch: 48423 Prep Batch: 41641			Date Ar QC Prej	alyzed: paration:	2008-05- 2008-05-				yzed By ared By	
		LCS	5			Spike	Matri	x	J	Rec.
Param		Resu	lt I	Jnits	Dil.	Amount	Resul	t Rec.	L	imit
DRO		240	m	g/Kg	1	250	<15.8	<u> </u>	27.8	- 152.1
Param DRO		LCSD Result 260	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <15.8	Rec.	Rec. Limit 7.8 - 152.1	RPD 8	RPD Limit 20
Percent recovery is based o	on the sp	ike result.		based on	the spike a	and spike d	uplicate r	esult.		
					-					
	LCS	LCSD				Spike	LCS	LCSD		Rec.
Surrogate	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	LCSD Result		nits	Dil.	Spike Amount	LCS Rec.	LCSD Rec.		Rec. Limit
Surrogate n-Triacontane			; U	nits g/Kg	Dil.				]	Limit
n-Triacontane Laboratory Control Spi QC Batch: 48448	Result 95.6	Result 97.9	U mg Date An	g/Kg		Amount 100	Rec.	Rec. 98 Analy	]	Limit - 130.4 r: DC
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629	Result 95.6	Result 97.9 S-1)	U mg Date An QC Prep	g/Kg alyzed: paration:	1 2008-05- 2008-05-	Amount 100 15 14 Spike	Rec. 96	Rec. 98 Analy Prepa	38 yzed By ared By	Limit - 130.4 - DC : DC Rec.
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param	Result 95.6	Result 97.9 S-1) LC3 Resu	Date An QC Prep	g/Kg aalyzed: paration: Units	1 2008-05-	Amount 100 15 14 Spike Amount	Rec. 96 Mat Res	Rec. 98 Analy Prepa rix ult Rec	38 yzed By ared By	Limit - 130.4 - DC : DC : DC Rec. Limit
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param Benzene	Result 95.6	Result 97.9 S-1)	U mg Date An QC Prep S ult 1 2 m	g/Kg alyzed: paration: Units 1g/Kg	1 2008-05- 2008-05- Dil.	Amount 100 15 14 Spike	Rec. 96	Rec. 98 Analy Prepa ult Rec 0110 102	38 yzed By ared By 2 7	Limit - 130.4 - 130.4 - DC : DC : DC Rec. Limit 70 - 130
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param Benzene Toluene	Result 95.6	Result 97.9 S-1) LC: Resu 1.0	U mg Date An QC Prep S tlt U 2 m 4 m	g/Kg alyzed: paration: Units Ig/Kg Ig/Kg	12008-05- 2008-05- Dil1	Amount 100 15 14 Spike Amount 1.00	Rec. 96 Mat Res <0.00	Rec. 98 Analy Prepa ult Rec 0110 102 0150 104	38 yzed By ared By :. 2 7 4 7	Limit - 130.4 - DC : DC : DC Rec. Limit
p-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param Benzene Toluene Ethylbenzene	Result 95.6	Result 97.9 S-1) LC: Resu 1.0 1.0	Date An QC Prep S ilt 1 2 m 4 m 5 m	g/Kg alyzed: paration: Units 1g/Kg	12008-05- 2008-05- Dil. 1 1	Amount 100 15 14 Spike Amount 1.00 1.00	Rec. 96 Mat Res <0.00 <0.00	Rec. 98 Analy Prepa ult Rec 0110 102 0150 104 0160 105	1 38 yzed By ared By 2 7 4 7 5 7	Limit - 130.4 - 130.4 - 130.4 - 130.4 - 130 -
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param Benzene Toluene Ethylbenzene Xylene	Result 95.6 ike (LC:	Result 97.9 S-1) LC3 Resu 1.0 1.0 3.1	Date An QC Prep S alt 1 2 m 2 m 2 m	g/Kg aalyzed: paration: Units ng/Kg ng/Kg ng/Kg ng/Kg	1 2008-05- 2008-05- Dil 1 1 1 1 1	Amount 100 15 14 Spike Amount 1.00 1.00 1.00 3.00	Rec. 96 96 Mat Res <0.00 <0.00 <0.00 <0.00	Rec. 98 Analy Prepa ult Rec 0110 102 0150 104 0160 105 0410 104	1 38 yzed By ared By 2 7 4 7 5 7	Limit - 130.4 - 130.4 - 130.4 - 130.4 - 130 -
n-Triacontane Laboratory Control Spi QC Batch: 48448 Prep Batch: 41629 Param Benzene Toluene Ethylbenzene Xylene	Result 95.6 ike (LC:	Result 97.9 S-1) S-1) LCS Resu 1.0 1.0 1.0 3.1 : ike result. LCSD	Date An QC Prep S Ilt 1 2 m 4 m 5 m 2 m RPD is b	g/Kg alyzed: paration: units ng/Kg ng/Kg ng/Kg ng/Kg pased on	1 2008-05- 2008-05- Dil 1 1 1 1 1 1 5 pike	Amount 100 15 14 Spike Amount 1.00 1.00 1.00 3.00 and spike d Matrix	Rec. 96 96 Mat Res <0.00 <0.00 <0.00 <0.00	Rec. 98 Analy Prepa ult Rec 0110 102 0150 104 0160 105 0410 104	2 7 4 7 5 7 4 7	Limit - 130.4 - 130.4 - DC : DC Rec. Limit 70 - 130 70 - 130
n-Triacontane Laboratory Control Spi QC Batch: 48448	Result 95.6 ike (LC:	Result 97.9 S-1) LC3 Resu 1.0 1.0 3.1 ike result.	Date An QC Prep S alt 1 2 m 2 m 2 m	g/Kg aalyzed: paration: Units ng/Kg ng/Kg ng/Kg ng/Kg	1 2008-05- 2008-05- Dil 1 1 1 1 1 1 1 1 1 1	Amount 100 15 14 Spike Amount 1.00 1.00 1.00 3.00 and spike d	Rec.           96           Mat           Res           <0.00	Rec.           98           Analy           Prepa           ult         Rec           0110         102           0150         104           0160         105           0410         104	1 38 yzed By ared By 2 7 4 7 5 7	Limit - 130.4 - 130.4 - 130.4 - 130.4 - 130 -

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Lea Station to Monument 6 inch		L		Order: 8051 n to Monume		ıch			~		20 of 28 1nty, NM
control spikes continued											
D	LCSD	TT •	1.1	Spike		atrix	ъ		ec.	חחח	RPD
Param Ethylbenzene	Result 0.990	Unit mg/I		Amount 1.00		esult 00160			mit 130	$\frac{\text{RPD}}{6}$	Limit
Xylene	$0.990 \\ 2.94$	mg/l	-	3.00		00100	99 98		130	6	$\frac{20}{20}$
Percent recovery is based on the sp											
	$\mathbf{LC}$	S	LCSD			Spil	æ	LCS	LCS	SD	Rec.
Surrogate	Resi		Result	Units	Dil.	Amo		Rec.	Re		Limit
Trifluorotoluene (TFT)	1.0		1.08	mg/Kg	1	1.0		106	10		70 - 130
4-Bromofluorobenzene (4-BFB)	1.0	7	1.06	mg/Kg	1	1.0	0	107	10	6	70 - 130
Laboratory Control Spike (LC QC Batch: 48449 Prep Batch: 41629	S-1)		Analyzed reparatio							yzed B ared B	•
	LO	CS			S	oike	Ма	trix			Rec.
Param	Res		Units	Dil.		ount		sult	Rec		Limit
GRO	8.4	41	mg/Kg	1	1	0.0	<0	.739	84		70 - 130
Param GRO	LCSD Result 8.58	Uni mg/	Kg 1	10.0	. Re <0	atrix esult ).739	Rec. 86	Re Lin 70 -	nit	RPD 2	RPD Limit 20
Percent recovery is based on the sp	oike result.	RPD	is based o	on the spike :	and sp	ike dupl	icate r	esult.			
	LC	S	LCSD			Spik	e	LCS	LCS	SD	Rec.
			DODD								1000.
Surrogate	Rest	ult	Result	Units	Dil.	Amou		Rec.	$\operatorname{Re}$	c.	Limit
Surrogate Trifluorotoluene (TFT)	1.2	:0	Result 1.18	mg/Kg	Dil.	1.00	int )	120	11	8	Limit 70 - 130
Trifluorotoluene (TFT)		:0	Result				int )			8	Limit 70 - 130
	1.2 1.0	0 5 Date	Result 1.18	mg/Kg mg/Kg : 2008-05-	1	1.00	int )	120	11 10 Anal:	8	Limit 70 - 130 70 - 130 y: DC
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650	1.2 1.0 (S-1)	0 5 Date QC F	Result 1.18 1.04 Analyzed Preparatio	mg/Kg mg/Kg : 2008-05- n: 2008-05-	1 1 15 15 5	1.00 1.00	Int ) ) Mat	120 105	11 10 Analy Prepa	8 4 yzed B ared B	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec.
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param	1.2 1.0 S-1) LC Rest	0 5 Date QC F S ult	Result 1.18 1.04 Analyzed Preparatio Units	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil.	1 1 15 15 5 Spi Amo	1.00 1.00	Int ) ) Mat Res	120 105 	11 10 Analy Prepa	8 4 yzed B ared B	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param Benzene	1.2 1.0 S-1) LC Rest 0.99	0 5 Date QC F S ult 94	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1	1 15 15 Spi <u>Amo</u> 1.0	1.00 1.00 ke unt	Mat Res <0.0	120 105 crix ult 0110	11 10 Anal; Prep Rec 99	8 4 yzed B ared B	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit 70 - 130
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param Benzene Toluene	1.2 1.0 S-1) LC Rest	0 5 Date QC F S ult 94 95	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg mg/Kg	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1 1	1 1 15 15 Amo 1.0 1.0	1.00 1.00 ke unt 00	Int ) ) Mat Res <0.00 <0.00	120 105 	11 10 Anal: Prepa Rec 99 100	8 4 yzed B ared B c. 0	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit 70 - 130 70 - 130
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param Benzene Toluene Ethylbenzene	1.2 1.0 2S-1) LC Rest 0.99 0.99	0 5 Date QC F 2S ult 94 95 01	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1	1 15 15 Spi <u>Amo</u> 1.0	1.00 1.00 1.00	Mat Res <0.0	120 105 crix ult 0110 0150 0160	11 10 Anal; Prep Rec 99	8 4 yzed B ared B c. 0 1	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit 70 - 130 70 - 130 70 - 130
Irifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param Benzene Toluene Ethylbenzene Xylene	1.2 1.0 (S-1) LC Rest 0.99 0.99 1.0 3.0	0 5 Date QC F S ult 94 95 01	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg mg/Kg mg/Kg mg/Kg	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1 1 1 1 1	1 15 15 5 5 5 5 5 5 5 5 5 7 5 7 5 7 5 7	1.00 1.00 1.00 0.00	mt ) ) Mat Res <0.00 <0.00 <0.00 <0.00 <0.00	120 105 	11 10 Anal: Prepa Rec 99 100 101	8 4 yzed B ared B c. 0 1	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit 70 - 130 70 - 130 70 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460 Prep Batch: 41650 Param Benzene Toluene Ethylbenzene Xylene	1.2 1.0 2S-1) ES-1) LC Rest 0.99 0.99 1.0 3.0 Dike result. LCSD	0 5 Date QC F S ult 94 95 01 01 RPD	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg mg/Kg mg/Kg mg/Kg is based of	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1 1 1 1 1	1 1 15 15 Spi Amo 1.0 1.0 1.0 3.0 and spi	1.00 1.00 1.00 0.00	mt ) ) Mat Res <0.00 <0.00 <0.00 <0.00 <0.00	120 105 xrix ult 0110 0150 0160 02410 esult. Re	11 10 Anal: Prep: Rec 99 100 101 100	8 4 yzed B ared B c. 0 0	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Rec. Limit 70 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LC QC Batch: 48460	1.2 1.0 2S-1) ES-1) LC Rest 0.99 0.99 1.0 3.0 Dike result.	0 5 Date QC F S ult 94 95 01	Result 1.18 1.04 Analyzed Preparatio Units mg/Kg mg/Kg mg/Kg mg/Kg is based of ts Dil.	mg/Kg mg/Kg : 2008-05- n: 2008-05- Dil. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 15 15 Spi <u>Amo</u> 1.0 1.0 1.0 1.0 3.0 and spi Ma Re	1.00 1.00 1.00 0 0 00 00 00 00 00 00 00 00	mt ) ) Mat Res <0.00 <0.00 <0.00 <0.00 <0.00	120 105	11 10 Anal; Prep: Rec 99 100 101 100 ec nit	8 4 yzed B ared B c. 0 1	Limit 70 - 130 70 - 130 y: DC y: DC y: DC Limit 70 - 130 70 - 130 70 - 130

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Report Date: May 16, 2008 Lea Station to Monument 6	inch		Lea		Order: 805 to Monume			]	Ŷ		21 of 25 unty, NM
control spikes continued											
	$\mathbf{L}$	CSD			Spike	Matrix		R	lec.		$\operatorname{RPD}$
Param		esult	Units	Dil.	Amount	Result	Rec.		mit	RPD	Limit
Ethylbenzene			mg/Kg	1	1.00	< 0.0016			- 130	4	20
Xylene			mg/Kg	1	3.00	< 0.0041			- 130	4	20
Percent recovery is based on	the spike	result.	RPD is l	pased or	n the spike	and spike d	uplicate 1	esult.			
		LCS	LC	CSD		5	spike	LCS	LCS	SD	Rec.
Surrogate		Resu		sult	Units		nount	Rec.	Re		Limit
Trifluorotoluene (TFT)		1.03		.06	mg/Kg	1	1.00	103	10		70 - 130
4-Bromofluorobenzene (4-BF	FB)	1.07	1.	.12	mg/Kg	1	1.00	107	11	2	70 - 130
QC Batch: 48423 Prep Batch: 41641			Date An QC Prep		2008-05 1: 2008-05					yzed E ared B	
Param		MS Resul	t. 1	Units	Dil.	Spike Amount	Mat Res		Rec.		Rec. Limit
DRO		1120		ng/Kg	1	250	96		64	1	8 - 179.5
Percent recovery is based on	the spike	result.			the spike	and spike d	uplicate r	esult.			
	Ν	1SD			Spike	Matrix		$\operatorname{Re}$	c.		RPD
Param	$\mathbf{R}$	$\operatorname{esult}$	Units	Dil.	Amount	Result	Rec.	Lin		RPD	Limit
DRO	1	.090	mg/Kg	1	250	960	52	18 - 1	79.5	3	20
Percent recovery is based on	the spike	result.	RPD is b	based or	the spike	and spike d	uplicate r	esult.			
	MS	MSI	)			Spike	M	3	MSD		Rec.
Surrogate	Result	Resu	lt	Units	Dil.	Amount	$\mathbf{Re}$	с.	Rec.		Limit
n-Triacontane ⁷⁸	179	189	n	ng/Kg	1	100	17	9	189	3	4.1 - 158
Matrix Spike (MS-1) QC Batch: 48448 Prep Batch: 41629	Spiked Sar	-	9698 Date An QC Prep	-	2008-05- : 2008-05-				•	yzed B ared B	•
		MS	5			Spike	Ма	trix			Rec.
		Resu		Units	Dil.	Amount		sult	Rec		Limit
Param				177							70 - 130
	9	1.4	2 r.	ng/Kg	1	1.00	<0.0	0110	142	4	10 - 190
Param Benzene Toluene	10	1.4 1.4		ng/Kg ng/Kg	1 1	1.00		0110	142		70 - 130
Benzene			5 n 9 n				<0.0			5	

⁷High surrogate recovery due to peak interference.

⁸High surrogate recovery due to peak interference.

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

¹²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: May 16, 2008 Lea Station to Monument 6 inch		Lea		Order: 8051 to Monume			Pa	age Numb Lea (		2 of 2 ty, NN
	MSD			Spike	Matri	r	Re	c		RPD
Param	Result	Units	Dil.	Amount	Resul		Lin		D	Limi
Benzene	1.19	mg/Kg		1.00	<0.001		70 -			20
Toluene	1.21	mg/Kg		1.00	< 0.001		70 -			20
Ethylbenzene	1.24	mg/Kg		1.00	< 0.001		70 -			20
Xylene	3.71	mg/Kg		3.00	< 0.004		70 -			20
Percent recovery is based on the sp	oike result.	RPD is	based on	the spike a	and spike	duplicate r	esult.			
	M	5 1	MSD			Spike	MS	MSD		Rec.
Surrogate	Res		Result	Units	Dil.	Amount	Rec.	Rec.		Limit
Trifluorotoluene (TFT)	1.0		1.09	mg/Kg	1	1	106	109		) - 13
4-Bromofluorobenzene (4-BFB)	1.1	8	1.21	mg/Kg	1	1	118	121	70	) - 13
QC Batch: 48449 Prep Batch: 41629	ъл	QC Pre	nalyzed: eparation	2008-05- : 2008-05-	-14	۸.		Analyzed Prepared	By:	DC
Param	M Res		Units	Dil.	Spike Amoui		trix	Rec.		Rec. Limit
GRO	17		mg/Kg	<u> </u>	100		128	106		$\frac{11111}{2}$ - 130
Percent recovery is based on the sp										
	MSD			Spike	Matri	x	Rec			RPE
Param	$\mathbf{Result}$	Units	Dil.	Amount	Resul	t Rec.	$\operatorname{Lim}$	it RP	D	Limi
GRO	174	$mg/K_{l}$	g 10	100	72.128	3 102	70 - 1	130 2		20
Percent recovery is based on the sp	oike result.	RPD is	based on	the spike a	and spike	duplicate r	esult.			
		AS	MSD			Spike	MS	MSD		Rec.
Surrogate			Result	Units	Dil.	Amount	Rec.	Rec.		Limit
Irifluorotoluene (TFT)		0.1	12.8	mg/Kg	10	10	301	128		) - 130
4-Bromofluorobenzene (4-BFB)	14 24	4.3	11.0	mg/Kg	10	10	243	110	7(	) - 13(
Matrix Spike (MS-1) Spiked	Sample: 1	59684								
<b>Matrix Spike (MS-1)</b> Spiked QC Batch: 48460 Prep Batch: 41650	Sample: 1	Date A	nalyzed:	2008-05- : 2008-05-				Analyzed Prepared	-	
QC Batch: 48460	-	Date A QC Pre	•		15			-	By:	DC
QC Batch: 48460 Prep Batch: 41650	MS	Date A QC Pre	eparation	: 2008-05-	15 Spike	Mat Res		Prepared	By:	DC Rec.
QC Batch: 48460 Prep Batch: 41650 Param	MS Resu	Date A QC Pre	eparation Units	: 2008-05- Dil.	15 Spike Amount	Res	ult	Prepared Rec.	By:	DC Rec. Limit
QC Batch: 48460 Prep Batch: 41650 Param Benzene	MS Resu 2.0	Date A QC Pre	eparation Units mg/Kg	: 2008-05- Dil. 2	15 Spike Amount 2.00	Res <0.00	ult )220	Prepared Rec. 101	By:	DC Rec. Limit ) - 13
QC Batch: 48460	MS Resu	Date A QC Pre	eparation Units	: 2008-05- Dil.	15 Spike Amount	Res	ult )220 .57	Prepared Rec.	By: 7( 7(	DC Rec. Limit

¹³High surrogate recovery due to peak interference. ¹⁴High surrogate recovery due to peak interference.

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	to Monumer	t 6 inch	Lea		Order: 8051 to Monume				Lea Cou	23 of 23 1nty, NM
		MS	D		Spike	Matrix		Rec.		RPD
Param		Resu	lt Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		2.1	5 mg/Kg	2	2.00	< 0.00220	108	70 - 130	6	20
Foluene		2.2	6 mg/Kg	<b>2</b>	2.00	0.0157	112	70 - 130	6	20
Ethylbenzen	ie	2.3	7 mg/Kg	2	2.00	0.0625	115	70 - 130	5	20
Kylene		6.9	6 mg/Kg	2	6.00	0.1139	114	70 - 130	5	20
ercent reco	overy is based	on the spike rea	sult. RPD is	based on	the spike a	and spike du	iplicate r	esult.		
			MS	MSD			Spike		MSD	Rec.
Surrogate		· · · · · · · · · · · · · · · · · · ·	Result	Result	Units		mount		Rec.	Limit
	iene (TFT)	BEB) 15 16	2.01	2.02	mg/Kg	2	2	100	101	70 - 130
-Bromonuc	probenzene (4	-BFB) ¹⁰ 10	2.69	2.64	mg/Kg	2	2	134	132	70 - 130
Standard (	(ICV-1)									
QC Batch:	48423		Date A:	nalyzed:	2008-05-1	4		Ar	nalyzed B	y: LD
			ICVs	IC	Vs	ICVs		Percent		
			True	-	und	Percent		Recovery		Date
Param	Flag	Units	Conc.		onc.	Recovery		Limits		nalyzed
ORO		mg/Kg	250		58	103		85 - 115		08-05-14
QC Batch:	48423		Date An CCVs True	CC	2008-05-14 CVs und	4 CCVs Percent		Ar Percent Recovery	alyzed B	y: LD Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	A	nalyzed
DRO		mg/Kg	250	2	70	108	8	85 - 115	200	08-05-14
Standard (	(CCV-2)									
QC Batch:	48423		Date A	nalyzed:	2008-05-14	1		An	alyzed B	y: LD
			CCVs		CVs	CCVs		Percent		
		<b>.</b>	True		und	Percent		lecovery		Date
Param	Flag	Units	Conc.		onc.	Recovery		Limits		nalyzed
DRO		mg/Kg	250	2	67	107		35 - 115	200	08-05-14
Standard (	ICV-1)									
QC Batch:	48448		Date Ar	nalyzed:	2008-05-15	5		An	alyzed B	y: DC

¹⁵High surrogate recovery due to peak interference. ¹⁶High surrogate recovery due to peak interference.

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Report Date: May 16, 2008 Lea Station to Monument 6 inch				ork Order: 805 ion to Monume	Page Number: 24 of 25 Lea County, NM		
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene	<u>_</u>	mg/Kg	0.100	0.101	101	85 - 115	2008-05-15
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2008-05-15
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2008-05-15
Xylene		mg/Kg	0.300	0.309	103	85 - 115	2008-05-15

### Standard (CCV-1)

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QC Batch: 4844		Date Analyz	ed: 2008-05-1	Analyzed By: DC			
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.106	106	85 - 115	2008-05-15
Toluene		mg/Kg	0.100	0.107	107	85 - 115	2008-05-15
Ethylbenzene		mg/Kg	0.100	0.109	109	85 - 115	2008-05-15
Xylene		mg/Kg	0.300	0.324	108	85 - 115	2008-05-15

### Standard (ICV-1)

QC Batch: 48449			Date Ana	alyzed: 2008-0	Analyzed By: DC		
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
$\overline{\mathrm{GRO}}$		mg/Kg	1.00	1.06	106	85 - 115	2008-05-15

### Standard (CCV-1)

QC Batch: 48449		Date Ana	alyzed: 2008-0	Analyzed By: DC			
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.11	111	85 - 115	2008-05-15

### Standard (ICV-1)

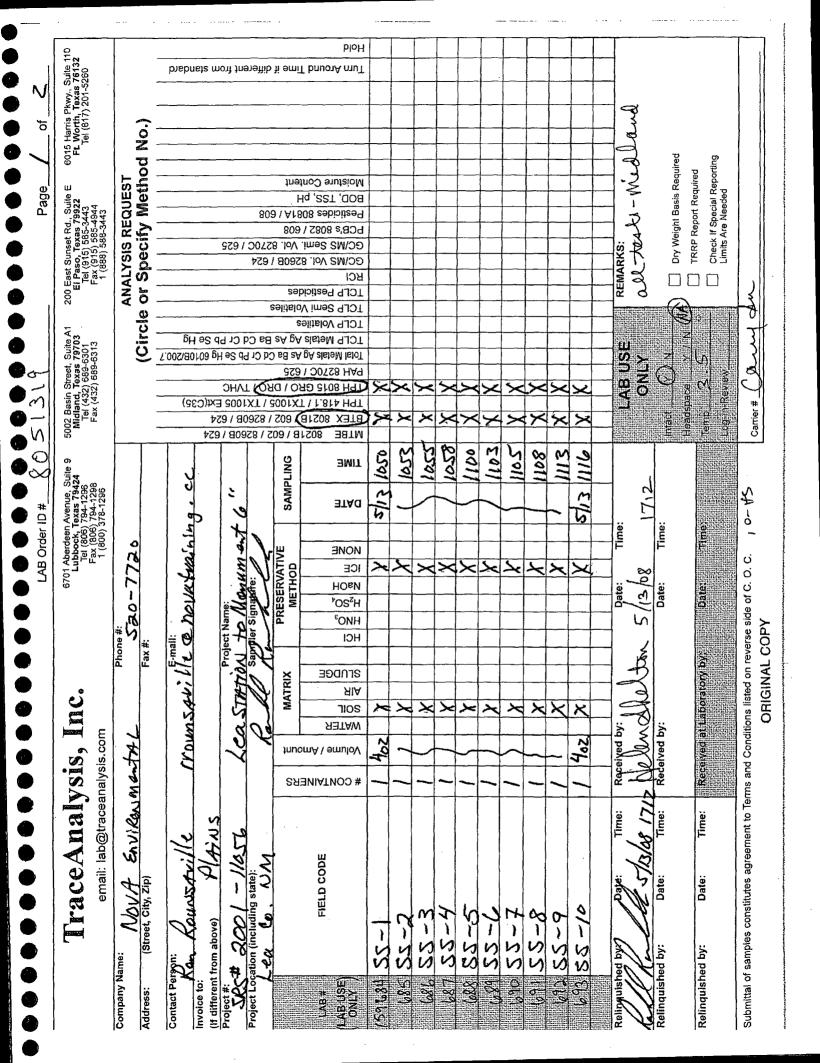
QC Batch: 48460			Date Analyzed: 2008-05-15			Analyzed By: DC	
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.112	112	85 - 115	2008-05-15
Toluene		mg/Kg	0.100	0.113	113	85 - 115	2008-05-15
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-05-15
Xylene		mg/Kg	0.300	0.340	113	85 - 115	2008-05-15

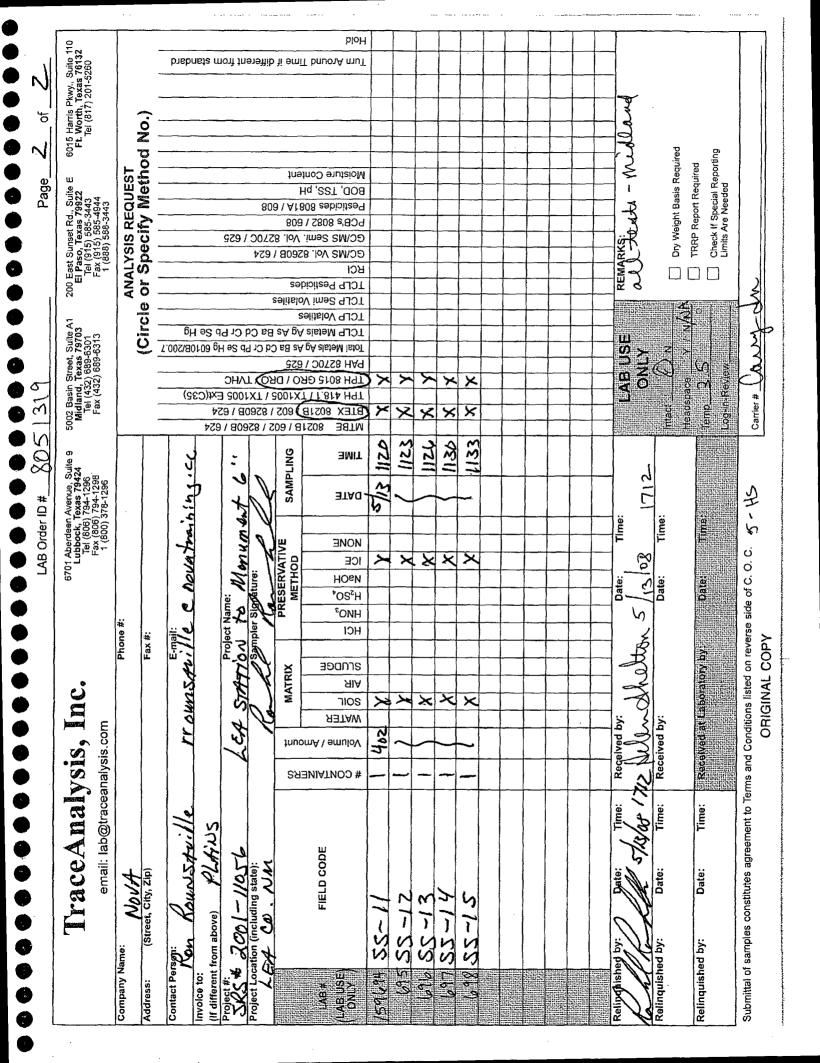
Report Date: May 16, 2008 Lea Station to Monument 6 inch			Work Order: 8051319 Lea Station to Monument 6 inch			Page Number: 25 of 25 Lea County, NM	
Standard (C	CV-1)	·					
QC Batch: 48460		Date Analyzed: 2008-05-15			Analyzed By: DC		
			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.103	103	85 - 115	2008-05-15
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2008-05-15
Ethylbenzene		mg/Kg	0.100	0.105	105	85 - 115	2008-05-15
Xylene		mg/Kg	0.300	0.311	104	85 - 115	2008-05-15

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96 FAX 806 • 794 • 1298 43 FAX 915 • 585 • 4944 01 FAX 432 • 689 • 6313 60

# Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: May 28, 2008

Work Order: 8052303

Project Location:	Lea County, NM
Project Name:	Lea Station to Monument 6 inch
Project Number:	Lea Station to Monument 6 inch
SRS#:	SRS# 2001-11056

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

			Date	Time	Date
Sample	Description	$\operatorname{Matrix}$	Taken	Taken	Received
161006	SS2-1	soil	2008-05-22	10:03	2008-05-23
161007	SS2-2	soil	2008-05-22	10:06	2008-05-23
161008	SS2-3	soil	2008-05-22	10:10	2008-05-23
161009	SS2-4	soil	2008-05-22	10:13	2008-05-23
161010	<b>SS2-</b> 5	soil	2008-05-22	10:16	2008-05-23
161011	SS2-6	soil	2008-05-22	10:20	2008-05-23
161012	SS2-7	soil	2008-05-22	10:23	2008-05-23
161013	SS2-8	soil	2008-05-22	10:25	2008-05-23
161014	SS2-9	soil	2008-05-22	10:28	2008-05-23
161015	SS2-10	soil	2008-05-22	10:32	2008-05-23
161016	SS2-11	soil	2008-05-22	10:34	2008-05-23
161017	SS2-12	soil	2008-05-22	10:38	2008-05-23
161018	SS2-13	soil	2008-05-22	10:40	2008-05-23
161019	SS2-14	soil	2008-05-22	10:43	2008-05-23
161020	SS2-15	soil	2008-05-22	10:45	2008-05-23

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

Michael abel

Dr. Blair Leftwich, Director

Certifications Lubbock - NELAP T104704219-08-TX El Paso - NELAP T104704221-08-TX

#### Standard Flags

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

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# **Case Narrative**

Samples for project Lea Station to Monument 6 inch were received by TraceAnalysis, Inc. on 2008-05-23 and assigned to work order 8052303. Samples for work order 8052303 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

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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 8052303 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.

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Report Date: May 28, 2008 Lea Station to Monument 6 inch

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# **Analytical Report**

#### Sample: 161006 - SS2-1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 48781 41923		Analytical M Date Analyz Sample Prep	zed:	S 8021B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared E	By: DC
			$\operatorname{RL}$					
Parameter	Fla	g	$\operatorname{Result}$		Units	Dil	ution	$\operatorname{RL}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ne (TFT)		0.907	mg/Kg	1	1.00	91	70 - 130
4-Bromofluoro	obenzene (4-BFB)		0.859	mg/Kg	1	1.00	86	70 - 130

#### Sample: 161006 - SS2-1

n-Triacontane	e	182	mg/Kg	1	100	182	10 - 250.4
Surrogate	Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
					Spike	Percent	Recovery
DRO			408	mg/J	Kg	1	50.0
Parameter	Fla	g	RL Result	Un		Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 48730 41882		Analytical M Date Analyze Sample Prepa	d: 2008-0	5-23	Analyz	fethod: N/A aed By: LD ed By: LD

#### Sample: 161006 - SS2-1

Laboratory:	Midland					
•	TPH GRO	Analytical Method:	S 8015B	Prep	Method:	S 5035
QC Batch:	48784	Date Analyzed:	2008-05-27	Analy	zed By:	DC
Prep Batch:	41923	Sample Preparation:	2008-05-27	Prepa	red By:	DC
				,. ,		

continued ...

sample 161006 continued ...

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			$\operatorname{RL}$					
Parameter	Flag		Result		Units	D	ilution	RL
			$\operatorname{RL}$					
Parameter	Flag		Result		Units	D	ilution	$\operatorname{RL}$
GRO			10.2		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T	FT)		1.12	mg/Kg	1	1.00	112	70 - 130
4-Bromofluorobenz	ene (4-BFB)		1.18	mg/Kg	1	1.00	118	70 - 130

#### Sample: 161007 - SS2-2

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 48781 41923		Analytical M Date Analyz Sample Prep	zed:	S 8021B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
			$\operatorname{RL}$					
Parameter	Fla	g	$\operatorname{Result}$		Units	Dil	ution	$\operatorname{RL}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	2		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		$\operatorname{Flag}$	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		0.914	mg/Kg	1	1.00	91	70 - 130
4-Bromofluor	obenzene (4-BFB)		0.861	mg/Kg	1	1.00	86	70 - 130

#### Sample: 161007 - SS2-2

Laboratory: Analysis: QC Batch: Prep Batch:	TPH DRO 48730	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2008-05-23 2008-05-23	Prep Method: Analyzed By: Prepared By:	ĹĎ
		RL			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
DRO		346	mg/Kg	1	50.0

	onument 6 in	ch	Lea St	ation to M	Aonument 6	inch		County, NM
Surrogate	Flag	Result	Units	$\mathrm{Dil}^{\mathrm{i}}$	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		129	mg/Kg		1	100	129	10 - 250.4
Sample: 161007	- SS2-2							
•			Analytical Date Analy Sample Pre	zed:	S 8015B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
<b>-</b>	ורז		RL		<b>**</b> •.			
Parameter	Flag	S	Result		Units		Dilution	RI
GRO			11.2		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Irifluorotoluene ('	TFT)		1.14	mg/Kg	1	1.00	114	70 - 130
4-Bromofluoroben	zene (4-BFB)	)	1.17	mg/Kg	1	1.00	117	70 - 130
Laboratory: Mid Analysis: BT QC Batch: 487	lland EX 81		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
Laboratory: Mid Analysis: BTI QC Batch: 487 Prep Batch: 419	lland EX 81 23		Date Analyz Sample Prep RL	ed:	2008-05-27 2008-05-27		Analyzed I Prepared I	By: DC 3y: DC
Laboratory: Mid Analysis: BTI QC Batch: 487 Prep Batch: 419 Parameter	lland EX 81	ag	Date Analyz Sample Prep RL Result	ed:	2008-05-27 2008-05-27 Units	D	Analyzed I Prepared I	By: DC 3y: DC RI
Laboratory: Mid Analysis: BTI QC Batch: 487 Prep Batch: 419 Parameter Benzene	lland EX 81 23	ag	Date Analyz Sample Prep RL Result <0.0100	ed:	2008-05-27 2008-05-27 Units mg/Kg	D	Analyzed I Prepared I ilution 1	By: DC 3y: DC RI 0.0100
Analysis: BT QC Batch: 487 Prep Batch: 419 Parameter Benzene Toluene	lland EX 81 23	ag	Date Analyz Sample Prep RL Result <0.0100 <0.0100	ed:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg	D	Analyzed I Prepared I ilution 1 1	By: DC 3y: DC <u>RI</u> 0.0100 0.0100
Laboratory: Mid Analysis: BTJ QC Batch: 487 Prep Batch: 419 Parameter Benzene Foluene Ethylbenzene	lland EX 81 23	ag	Date Analyz Sample Prep RL Result <0.0100 <0.0100 <0.0100	ed:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg	D	Analyzed I Prepared I ilution 1 1 1	By: DC 3y: DC RI 0.0100 0.0100 0.0100
Laboratory: Mid Analysis: BTJ QC Batch: 487 Prep Batch: 419 Parameter Benzene Foluene Ethylbenzene	lland EX 81 23	ag	Date Analyz Sample Prep RL Result <0.0100 <0.0100	ed:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg		Analyzed I Prepared I ilution 1 1 1 1 1	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100
Laboratory: Mid Analysis: BTI QC Batch: 487 Prep Batch: 419 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	lland EX 81 23 Fla	ag Flag	Date Analyz Sample Prep RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result	ed: aration: Units	2008-05-27 2008-05-27 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount	Analyzed I Prepared I ilution 1 1 1 1 Percent Recovery	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits
Laboratory: Mid Analysis: BTI QC Batch: 487 Prep Batch: 419 Parameter Benzene Foluene Ethylbenzene Xylene	lland EX 81 23 Fla	Flag	Date Analyz Sample Prep RL Result <0.0100 <0.0100 <0.0100 <0.0100	ed: aration:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed I Prepared I ilution 1 1 1 1 Percent	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100 Recovery

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	: May 28, 2008 to Monument 6 inc	h			er: 8052303 Monument 6	inch		nber: 7 of 27 County, NM
Sample: 16	1008 - SS2-3							
Laboratory:	Midland							
Analysis:	TPH DRO		Analytical M	lethod:	Mod. 8015	В	Prep Me	thod: N/A
QC Batch:	48730		Date Analyz	zed:	2008-05-23	;	Analyzed	l By: LD
Prep Batch:	41882		Sample Prep	paration:	2008-05-23	;	Prepared	l By: LD
			$\operatorname{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units		Dilution	$\operatorname{RL}$
DRO		_	320		mg/Kg		1	50.0
						Spike	Percent	Recovery
Surrogate	$\mathbf{Flag}$	Result	Units	Dil	ution	Amount	Recovery	Limits
n-Triacontane	9	132	mg/Kg		1	100	132	10 - 250.4
Prep Batch: Parameter GRO	41923 Flag		Sample Prep RL Result 10.3		2008-05-27 Units mg/Kg		Prepared E Dilution 1	By: DC RL 1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution			Limits
Trifluorotolue	obenzene (4-BFB)		1.11 $1.10$	mg/Kg mg/Kg	1 1	1.00 $1.00$	$\frac{111}{110}$	70 - 130 70 - 130
Sample: 161	1009 - SS2-4 Midland		Analytical Me Date Analyze		S 8021B 2008-05-27		Prep Meth Analyzed F	
Analysis:	BTEX 48781		Daw maryze				Prepared E	
Analysis: QC Batch:			Sample Prepa RL	ration:	2008-05-27		i iopaicu i	By: DC
Analysis: QC Batch: Prep Batch: Parameter	48781	5	Sample Prepa RL Result	ration:	Units		Dilution	RL
Analysis: QC Batch: Prep Batch: Parameter Benzene	48781 41923	5	Sample Prepa RL Result <0.0100	ration:			-	•
Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene	48781 41923 Flag	5	Sample Prepa RL Result <0.0100 <0.0100	ration:	Units mg/Kg mg/Kg		Dilution 1 1	RL 0.0100 0.0100
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	48781 41923 Flag	3	Sample Prepa RL Result <0.0100	ration:	Units mg/Kg		Dilution	RL 0.0100

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Surrogate Trifluorotolue 4-Bromofluor								
Trifluorotolue		Flor	Decult	II	Dilution	Spike	Percent	Recovery
		Flag	Result 0.891	Units		Amount	Recovery 89	Limits 70 - 130
			0.891 0.819	mg/Kg mg/Kg	1 1	1.00 $1.00$	89 82	70 - 130 70 - 130
	(4-DI D)			ing/ ing	1	1.00		10 - 150
Sample: 16	1009 - SS2-4							
Laboratory:	Midland							
Analysis:	TPH DRO		Analytical	Method:	Mod. 8015E	3	Prep Me	ethod: N/A
QC Batch:	48730		Date Anal	yzed:	2008-05-23		Analyze	d By: LD
Prep Batch:	41882		Sample Pr	eparation:	2008-05-23		Prepare	d By: LD
			RL			_		~ -
Parameter	Flag		Result		Units		Dilution	RI
DRO			395		m ~ / k ~		1	50.0
					mg/Kg		<u>+</u>	
					iiig/ Kg	Spike	Percent	
Surrogate	Flag	Result	Units	Dilı		Amount	Percent Recovery	Recovery Limits
Surrogate n-Triacontane		Result 166				-	Percent	Recovery Limits
Surrogate n-Triacontane Sample: 16 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter			Units	Method: yzed:	tion A 1 S 8015B 2008-05-27 2008-05-27 Units	Amount	Percent Recovery	Recovery Limits 10 - 250.4 od: S 5035 By: DC By: DC RL
Surrogate n-Triacontane	e 1009 - SS2-4 Midland TPH GRO 48784 41923		Units mg/Kg Analytical Date Analy Sample Pro RL Result	Method: yzed:	s 8015B 2008-05-27 2008-05-27	Amount 100 I	Percent Recovery 166 Prep Meth Analyzed J Prepared H Dilution 1	Recovery Limits 10 - 250.4 od: S 503: By: DC By: DC RI 1.00
Surrogate n-Triacontane Sample: 16 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	e 1009 - SS2-4 Midland TPH GRO 48784 41923	166	Units mg/Kg Analytical Date Analy Sample Pro RL Result 1.86	Method: yzed: eparation:	tion A 1 S 8015B 2008-05-27 2008-05-27 Units	Amount 100 I Spike	Percent Recovery 166 Prep Meth Analyzed J Prepared H Dilution 1 Percent	Recovery Limits 10 - 250.4 od: S 5035 By: DC By: DC RL 1.00 Recovery
Surrogate n-Triacontane Sample: 16 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	e 1009 - SS2-4 Midland TPH GRO 48784 41923 Flag		Units mg/Kg Analytical Date Analy Sample Pro RL Result	Method: yzed:	tion A S 8015B 2008-05-27 2008-05-27 Units mg/Kg	Amount 100 I	Percent Recovery 166 Prep Meth Analyzed J Prepared H Dilution 1	Recovery Limits 10 - 250.4 od: S 5035 By: DC

Date Analyzed:

Sample Preparation: 2008-05-27

2008-05-27

Analyzed By: DC

Prepared By: DC

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			$\operatorname{RL}$							
Parameter	Flag		Result		Units	$\mathbf{Di}$	lution	$\operatorname{RL}$		
Benzene			< 0.0100		mg/Kg		1	0.0100		
Toluene			< 0.0100		mg/Kg		1	0.0100		
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100		
Xylene			< 0.0100		mg/Kg		1	0.0100		
						Spike	Percent	Recovery		
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits		
Trifluorotoluene (TFT)			0.917	mg/Kg	1	1.00	92	70 - 130		
4-Bromofluorobenzene (	4-BFB)		0.834	mg/Kg	1	1.00	83	70 - 130		

### Sample: 161010 - SS2-5

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n-Triacontane	9	136	mg/Kg	1	100	136	10 - 250.4
Surrogate	Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
					Spike	Percent	Recovery
DRO			307	mg/	Kg	1	50.0
Parameter	Fla	g	$\operatorname{RL}$ Result	Ur	nits	Dilution	$\operatorname{RL}$
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 48730 41882		Analytical Me Date Analyze Sample Prepa	d: 2008-0		Analyz	Method: N/A zed By: LD zed By: LD

## Sample: 161010 - SS2-5

	Midland TPH GRO		Analytical	Method:	S 8015B		Prep Meth	od: S 5035
QC Batch:	48784		Date Anal	yzed:	2008-05-27		Analyzed H	By: DC
Prep Batch:	ep Batch: 41923		Sample Pr	eparation:	2008-05-27		Prepared E	By: DC
			$\mathbf{RL}$					
Parameter	$\operatorname{Flag}$		Result		Units	Di	lution	$\mathbf{RL}$
GRO			5.61		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluer	ne (TFT)		1.13	mg/Kg	1	1.00	113	70 - 130
4-Bromofluoro	benzene (4-BFB)		1.13	mg/Kg	1	1.00	113	70 - 130

Report Date: May 28, 2008	Work Order: 8052303	Page Number: 10 of 27
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch	Lea County, NM

#### Sample: 161011 - SS2-6

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Laboratory: Midland Analysis: BTEX QC Batch: 48781			Analytical M Date Analys		S 8021B 2008-05-27		Prep Metho Analyzed B	
Prep Batch: 41923			Sample Pre		2008-05-27		Prepared B	•
			$\mathbf{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units	Di	ution	$\mathbf{RI}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.928	mg/Kg	1	1.00	93	70 - 130
4-Bromofluorobenzene (4-E	FB)		0.864	mg/Kg	1	1.00	86	70 - 130

#### Sample: 161011 - SS2-6

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 48730 41882		Analytical Me Date Analyze Sample Prepa	d: 2008-0	5-23	Analyz	Method: N/A zed By: LD red By: LD
			$\mathbf{RL}$				
Parameter	Fla	g	$\mathbf{Result}$	Un	its	Dilution	$\operatorname{RL}$
DRO			271	mg/I	Kg	1	50.0
<i>a</i>		<b>_</b> .		<b>-</b>	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	2	131	mg/Kg	1	100	131	10 - 250.4

#### Sample: 161011 - SS2-6

Laboratory: Analysis: QC Batch: Prep Batch:	TPH GRO 48784	Analytical Method: Date Analyzed: Sample Preparation:	S 8015B 2008-05-27 2008-05-27	Prep Method: Analyzed By: Prepared By:	DC
		$\mathbf{RL}$			
Parameter	$\mathbf{Flag}$	Result	Units	Dilution	$\mathbf{RL}$
GRO		5.92	mg/Kg	1	1.00

Report Date: Lea Station to	May 28, 2008 o Monument 6 inc	h			er: 8052303 Aonument 6 i	nch		aber: 11 of 27 County, NM
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluer	ne (TFT)		1.14	mg/Kg	1	1.00	114	70 - 130
	bbenzene (4-BFB)		1.11	mg/Kg		1.00	111	70 - 130
Sample: 161	012 - SS2-7							
Laboratory:	Midland							
	BTEX		Analytical M	lethod:	S 8021B		Prep Met	hod: S 5035
•	48781		Date Analyz		2008-05-27		Analyzed	
Prep Batch:	41923		Sample Prep	paration:	2008-05-27		Prepared	By: DC
			RL					
Parameter	Flag	g	Result		Units	]	Dilution	RL
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent	Recovery Limits
Trifluorotoluer	<u>, (TFT)</u>	Tag	0.894	mg/Kg	1	<u>1.00</u>	Recovery 89	70 - 130
	benzene (4-BFB)		0.894 $0.846$	mg/Kg	1	1.00	85	70 - 130 70 - 130
				6/116				
Sample: 161	012 - SS2-7							
•	Midland							
	TPH DRO		Analytical		Mod. 8015		Prep M	,
•	48730		Date Analy		2008-05-23		Analyze	•
Prep Batch:	41882		Sample Pro	eparation:	2008-05-23		Prepare	d By: LD
Parameter	Flag		$\operatorname{RL}$ Result		Units		Dilution	זת
DRO	rag	, <b>..</b>	450		mg/Kg		1	RL 50.0
			400		<u>6/17</u> 6			
Cumporata	Flam	Result	Units	נית	ution	Spike	Percent	Recovery
Surrogate n-Triacontane	Flag	13.9		ווע	$\frac{\text{ution}}{1}$	Amount 100	Recovery	Limits 10 - 250.4
u-iriacontane		19.9	mg/Kg		1	100	14	10 - 250.4

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	May 28, 2008 o Monument 6 inch				r: 8052303 Ionument 6 inch			ber: 12 of 27 County, NM
Sample: 161	1012 - SS2-7							
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 48784 41923		Analytical Date Analy Sample Pre	vzed:	S 8015B 2008-05-27 2008-05-27		Prep Meth Analyzed 1 Prepared I	By: DC
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO		·	12.4		mg/Kg			1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		1.10	mg/Kg	1	1.00	110	70 - 130
4-Bromofluor	obenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	70 - 130
Prep Batch:	41923		Sample Prep RL	paration:	2008-05-27	~	Prepared I	
Parameter Benzene	Flag		Result <0.0100		Units mg/Kg	D1	ution 1	
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue			0.878	mg/Kg	1	1.00	88	70 - 130
4-Bromofluor	obenzene (4-BFB)		0.808	mg/Kg	1	1.00	81	70 - 130
Sample: 163 Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 48730 41882		Analytical Date Analy Sample Pre	zed:	Mod. 8015B 2008-05-23 2008-05-23		Prep Me Analyzed Prepared	l By: LD
D ·			RL		<b>TT</b> •			
	nel'H		$\mathbf{Result}$		Units	Di Di	ilution	RL
Parameter DRO	Flag		433		mg/Kg		1	50.0

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Work Order: 8052303 Report Date: May 28, 2008 Page Number: 13 of 27 Lea Station to Monument 6 inch Lea Station to Monument 6 inch Lea County, NM Spike Percent Recovery Flag Surrogate Result Units Dilution Limits Amount Recovery n-Triacontane 154mg/Kg 1 10015410 - 250.4 Sample: 161013 - SS2-8 Laboratory: Midland Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035 QC Batch: Analyzed By: 48784 Date Analyzed: 2008-05-27 DC Prep Batch: 41923 Sample Preparation: 2008-05-27 Prepared By: DC RLFlag Parameter Result Units Dilution RLGRO 9.19 mg/Kg 1.00 1 Spike Percent Recovery Flag Surrogate Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 1.08 mg/Kg 1 1.00 108 70 - 130 4-Bromofluorobenzene (4-BFB) 1.06 106 70 - 130 mg/Kg 1 1.00Sample: 161014 - SS2-9 Laboratory: Midland Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 48781 Date Analyzed: 2008-05-27 Analyzed By: DC Prep Batch: 41923 Sample Preparation: 2008-05-27 DC Prepared By: RL Parameter Flag Result Units Dilution  $\mathbf{RL}$ Benzene < 0.0100 mg/Kg 0.0100 1 Toluene < 0.0100 mg/Kg 1 0.0100 Ethylbenzene < 0.0100 1 mg/Kg 0.0100< 0.0100 Xylene 1 0.0100 mg/Kg Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 0.878 mg/Kg 1.0088 70 - 130 1 mg/Kg 4-Bromofluorobenzene (4-BFB) 0.810 1 1.00 81 70 - 130

	: May 28, 2008 to Monument 6 incl	1			er: 8052303 Monument 6 i	inch	Ŷ	ber: 14 of 27 County, NM
Sample: 16	1014 - SS2-9							
Laboratory:	Midland							
Analysis:	TPH DRO		Analytical		Mod. 8015		Prep M	,
QC Batch:	48730		Date Anal		2008-05-23		Analyze	•
Prep Batch:	41882		Sample Pr	eparation:	2008-05-23		Prepare	d By: LD
			$\operatorname{RL}$					
Parameter	Flag		Result		Units		Dilution	RL
DRO			434		mg/Kg		1	50.0
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits
n-Triacontan	e	147	mg/Kg		1	100	147	10 - 250.4
QC Batch: Prep Batch: Parameter	48784 41923 Flag		Date Analy Sample Pro RL Result		2008-05-27 2008-05-27 Units		Analyzed Prepared Dilution	
GRO	F lag		9.41		mg/Kg		1	1.00
			J.41		iiig/ iig		<b>1</b>	1.00
9		Flag	Result	Units	Dilution	Spike Amount	Percent	Recovery Limits
Surrogate Trifluorotolue		Flag	1.08	mg/Kg	1	1.00	t Recovery 108	70 - 130
	obenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	70 - 130
Sample: 16 Laboratory: Analysis: QC Batch: Prep Batch:	1015 - SS2-10 Midland BTEX 48781 41923		Analytical M Date Analyz Sample Prep	zed:	S 8021B 2008-05-27 2008-05-27	1	Prep Met Analyzed Prepared	By: DC
			$^{\circ}\mathrm{RL}$					
Parameter	Flag	5	Result		Units		Dilution	RI
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9		$< 0.0100 \\ < 0.0100$		mg/Kg mg/Kg		1	0.0100 0.0100

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Flag	Result 0.876					
		Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
<u> </u>		mg/Kg	1	1.00	88	70 - 130
	0.812	mg/Kg	1	1.00	81	70 - 130
	Date Anal	yzed:	Mod. 8015 2008-05-23 2008-05-23	В	Prep Me Analyze Prepared	d By: LD
	DT					
	Result		Units	]	Dilution	RI
	441		mg/Kg		1	50.0
				Spiles	Percent	Recovery
Result 137	Units mg/Kg		ition 1	Spike Amount 100	Recovery 137	Limits
		Method: yzed:		Amount	Recovery	Limits 10 - 250.4 nod: S 5033 By: DC
	mg/Kg Analytical Date Anal Sample Pr RL	Method: yzed:	1 S 8015B 2008-05-27 2008-05-27	Amount 100	Recovery 137 Prep Meth Analyzed J Prepared I	Limits 10 - 250.4 nod: S 5035 By: DC By: DC By: DC
	mg/Kg Analytical Date Anal Sample Pr RL Result	Method: yzed:	1 S 8015B 2008-05-27 2008-05-27 Units	Amount 100	Recovery 137 Prep Meth Analyzed J Prepared I Dilution	Limits 10 - 250.4 hod: S 5038 By: DC By: DC By: DC
	mg/Kg Analytical Date Anal Sample Pr RL	Method: yzed:	1 S 8015B 2008-05-27 2008-05-27	Amount 100 I	Recovery 137 Prep Meth Analyzed J Prepared I Dilution 1	Limits 10 - 250.4 hod: S 5038 By: DC By: DC RL 1.00
137	mg/Kg Analytical Date Anal Sample Pr RL Result <b>7.80</b>	Method: yzed: eparation:	1 S 8015B 2008-05-27 2008-05-27 Units mg/Kg	Amount 100 I Spike	Recovery 137 Prep Meth Analyzed J Prepared I Dilution 1 Percent	Limits 10 - 250.4 hod: S 5038 By: DC By: DC RL 1.00 Recovery
	mg/Kg Analytical Date Anal Sample Pr RL Result	Method: yzed:	1 S 8015B 2008-05-27 2008-05-27 Units	Amount 100 I	Recovery 137 Prep Meth Analyzed J Prepared I Dilution 1	Limits 10 - 250.4 nod: S 5033 By: DC
		Date Anal Sample Pr RL Result	Result	Date Analyzed: 2008-05-23 Sample Preparation: 2008-05-23 RL Result Units	Date Analyzed: 2008-05-23 Sample Preparation: 2008-05-23 RL Result Units I 441 mg/Kg	Date Analyzed:2008-05-23AnalyzeSample Preparation:2008-05-23PrepareRLResultUnitsDilution441mg/Kg1

Report Date: May 2 Lea Station to Monu	,			Work Order: ation to Mo	8052303	1	0	ber: 16 of 27 County, NM
			$\operatorname{RL}$					
Parameter	$\operatorname{Flag}$		$\operatorname{Result}$		Units	Dil	ution	$\operatorname{RL}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TF	Т)	<u> </u>	0.878	mg/Kg	1	1.00	88	70 - 130
4-Bromofluorobenzen	e (4-BFB)		0.813	mg/Kg	1	1.00	81	70 - 130

## Sample: 161016 - SS2-11

n-Triacontan		128	mg/Kg	1	100	128	10 - 250.4
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
DRO			439	mg/l	Хg	1	50.0
Parameter	Fla	g	RL Result	Un	its	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	TPH DRO h: 48730		CPH DROAnalytical Method:Mod. 8015B.8730Date Analyzed:2008-05-23				Method: N/A zed By: LD red By: LD

## Sample: 161016 - SS2-11

Analysis: QC Batch:	TPH GRO 48784		Analytical Date Anal Sample Pr		S 8015B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
riep Daten.	11020		RL	cparation.	2000-00-21		i repareu i	<i>y</i> . DO
Parameter	Flag		Result		Units	Di	ilution	$\mathbf{RL}$
GRO			10.3		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ne (TFT)		1.08	mg/Kg	1	1.00	108	70 - 130
4-Bromofluoro	obenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	70 - 130

Report Date: May 28, 2008	Work Order: 8052303	Page Number: 17 of 27
Lea Station to Monument 6 inch	Lea Station to Monument 6 inch	Lea County, NM

#### Sample: 161017 - SS2-12

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Laboratory: Midland Analysis: BTEX			Analytical N	Method:	S 8021B		Prep Meth	.od: S 5035
QC Batch: 48781			Date Analy	zed:	2008-05-27		Analyzed l	By: DC
Prep Batch: 41923			Sample Pre	paration:	2008-05-27		Prepared I	By: DC
			$\operatorname{RL}$					
Parameter	Flag		Result		Units	Di	ution	$\operatorname{RL}$
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg	··· · · · · · · · · · · · · · · · · ·	1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.886	mg/Kg	1	1.00	89	70 - 130
4-Bromofluorobenzene (4-BI	FB)		0.815	mg/Kg		1.00	82	70 - 130

#### Sample: 161017 - SS2-12

Laboratory: Analysis: QC Batch:	Midland TPH DRO 48730		Analytical Me Date Analyze		Iod. 8015B 008-05-23		-	Aethod: N/A zed By: LD
Prep Batch:	48730 41882		Sample Prepa		)08-05-23 )08-05-23		•	red By: LD
			$\operatorname{RL}$					
Parameter	$\mathbf{Fla}$	Flag		Result Units			Dilution	RI
DRO			381		mg/Kg		1	50.
Surrogate	Flag	Result	Units	Dilutio		pike nount	Percent Recovery	Recovery Limits
n-Triacontane	<u> </u>	127	mg/Kg	1		100	127	10 - 250.4

#### Sample: 161017 - SS2-12

GRO		3.27	mg/Kg	1	1.00
Parameter	Flag	RL Result	Units	Dilution	$\operatorname{RL}$
QC Batch: Prep Batch:	48784	Date Analyzed: Sample Preparation:	2008-05-27	Analyzed By: Prepared By:	$\mathbf{DC}$
Laboratory: Analysis:	Midland TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035

Report Date: May 28, 2008 Work Order: 8052303 Page Number: 18 of 27 Lea Station to Monument 6 inch Lea Station to Monument 6 inch Lea County, NM Spike Percent Recovery Units Surrogate Flag Result Dilution Amount Recovery Limits Trifluorotoluene (TFT) 1.10 mg/Kg 1 1.00 110 70 - 130 4-Bromofluorobenzene (4-BFB) 1.08 mg/Kg 1 1.00 108 70 - 130 Sample: 161018 - SS2-13 Midland Laboratory: BTEX Analytical Method: S 8021B Analysis: Prep Method: S 5035 QC Batch: 48781 Date Analyzed: 2008-05-27 Analyzed By: DC 41923 Sample Preparation: 2008-05-27 Prep Batch: Prepared By: DC RLParameter Flag Result Units Dilution  $\mathbf{RL}$ < 0.01000.0100 Benzene mg/Kg 1 Toluene < 0.0100mg/Kg 1 0.0100 Ethylbenzene < 0.0100 mg/Kg 1 0.0100 Xylene < 0.0100 mg/Kg 1 0.0100 Spike Percent Recovery Flag Result Units Dilution Limits Surrogate Amount Recovery 0.903 70 - 130 Trifluorotoluene (TFT) mg/Kg 1 1.00 90 4-Bromofluorobenzene (4-BFB) 0.841 mg/Kg 1 1.0084 70 - 130 Sample: 161018 - SS2-13 Laboratory: Midland Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 48730 Date Analyzed: 2008-05-23 LD Analyzed By: Prep Batch: 41882 Sample Preparation: 2008-05-23 LDPrepared By: RL Result Units Dilution  $\mathbf{RL}$ Flag Parameter DRO 427 mg/Kg 50.0 1 Spike Percent Recovery Flag Result Units Dilution Amount Recovery Limits Surrogate 100 n-Triacontane 102 mg/Kg 1 102 10 - 250.4

	: May 28, 2008 to Monument 6 inch			Work Orde tation to M	r: 8052303 Ionument 6 inch			ber: 19 of 27 County, NM
Sample: 161	1018 - SS2-13							
Laboratory: Midland Analysis: TPH GRO QC Batch: 48784 Prep Batch: 41923			Analytical Date Anal Sample Pr		S 8015B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
			$\operatorname{RL}$					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			13.5		mg/Kg		1	1.00
		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate		LIGE						
	ene (TFT)	1 145	1.12	mg/Kg	1	1.00	112	70 - 130
Trifluorotolue 4-Bromofluor Sample: 16	obenzene (4-BFB) 1019 - SS2-14	1145	1.12 1.16	mg/Kg mg/Kg	1 1	1.00 1.00	112 116	70 - 130 70 - 130
Sample: 16 Laboratory: Analysis:	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX	1145	1.16 Analytical I	mg/Kg Method:	1 S 8021B		116 Prep Meth	70 - 130 od: S 5035
Trifluorotolue 4-Bromofluor Sample: 16 Laboratory: Analysis: QC Batch:	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781	1145	1.16 Analytical I Date Analy	mg/Kg Method: zed:	1 S 8021B 2008-05-27		116 Prep Meth Analyzed I	70 - 130 od: S 5035 3y: DC
Trifluorotolue 4-Bromofluor Sample: 16 Laboratory: Analysis:	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX	1145	1.16 Analytical I	mg/Kg Method: zed:	1 S 8021B		116 Prep Meth	70 - 130 od: S 5035 3y: DC
Trifluorotolue 4-Bromofluor Sample: 16 Laboratory: Analysis: QC Batch:	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781		1.16 Analytical I Date Analy	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27		116 Prep Meth Analyzed I	70 - 130 od: S 5035 3y: DC
Trifluorotolue 4-Bromofluor Sample: 16 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781	1145	1.16 Analytical M Date Analy Sample Pre RL Result	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units	1.00	116 Prep Meth Analyzed I	70 - 130 od: S 5035 3y: DC 3y: DC RL
Trifluorotolue 4-Bromofluor Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923		1.16 Analytical M Date Analy Sample Pres RL Result <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg	1.00	116 Prep Meth Analyzed I Prepared E ution 1	70 - 130 od: S 5035 3y: DC 3y: DC RL 0.0100
Trifluorotolue 4-Bromofluor Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Benzene Toluene	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag		1.16 Analytical M Date Analy Sample Pres RL Result <0.0100 <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg	1.00	116 Prep Meth Analyzed I Prepared E ution 1 1	70 - 130 od: S 5035 3y: DC 3y: DC RL 0.0100 0.0100
Trifluorotolue 4-Bromofluoro Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag	1145	1.16 Analytical M Date Analy Sample Pres RL Result <0.0100 <0.0100 <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg	1.00	116 Prep Meth Analyzed I Prepared E ution 1 1 1	od: S 5035 3y: DC 3y: DC RL 0.0100 0.0100 0.0100
Trifluorotolue 4-Bromofluoro Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag		1.16 Analytical M Date Analy Sample Pres RL Result <0.0100 <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg	1.00	116 Prep Meth Analyzed I Prepared E ution 1 1	70 - 130 od: S 5035 3y: DC 3y: DC RL 0.0100 0.0100 0.0100
Trifluorotolue 4-Bromofluor Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag		1.16 Analytical M Date Analy Sample Pres RL Result <0.0100 <0.0100 <0.0100 <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg mg/Kg	1.00 Dil	116 Prep Meth Analyzed I Prepared E ution 1 1 1 1 1 Percent	70 - 130 od: S 5035 By: DC By: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery
Trifluorotolue 4-Bromofluor Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag	Flag	1.16 Analytical I Date Analy Sample Pres RL Result <0.0100 <0.0100 <0.0100 Result	mg/Kg Method: zed: paration: Units	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	1.00 Dil Spike Amount	116 Prep Meth Analyzed I Prepared E ution 1 1 1 1 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2	70 - 130 od: S 5035 3y: DC 3y: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery Limits
Trifluorotolue 4-Bromofluor Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue	obenzene (4-BFB) 1019 - SS2-14 Midland BTEX 48781 41923 Flag		1.16 Analytical M Date Analy Sample Pres RL Result <0.0100 <0.0100 <0.0100 <0.0100	mg/Kg Method: zed: paration:	1 S 8021B 2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg mg/Kg	1.00 Dil	116 Prep Meth Analyzed I Prepared E ution 1 1 1 1 1 Percent	70 - 130 od: S 5035 By: DC By: DC RL 0.0100 0.0100 0.0100 0.0100 Recovery

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	48730	Date Analyzed:	2008-05-23	Analyzed By:	LD
Prep Batch:	41882	Sample Preparation:	2008-05-23	Prepared By:	LD
		· RL			
Parameter	$\mathbf{Flag}$	Result	Units	Dilution	$\mathbf{RL}$
DRO		298	mg/Kg	1	50.0

	Iay 28, 2008 Monument 6 inc	h			r: 8052303 Ionument 6 i	nch	-	ber: 20 of 2 County, NI
Surrogate	Flag	Result	Units	$\operatorname{Dil}$	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		141	mg/Kg		1	100	141	10 - 250.
Sample: 16101	19 - SS2-14							
v	idland							
•	PH GRO		Analytical		S 8015B		Prep Meth	
QC Batch: 48784			Date Anal	•	2008-05-27		Analyzed	
Prep Batch: 41	.923		Sample Pr	eparation:	2008-05-27		Prepared 2	By: DC
			$\operatorname{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units	r	Dilution	RI
GRO			2.56		mg/Kg		1	1.0
						Spike	Percent	Recover
Surrogate		Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotoluene			1.11	mg/Kg	1	1.00	111	70 - 130
4-Bromofluorobe	enzene (4-BFB)		1.09	mg/Kg	1	1.00	109	70 - 130
Laboratory: M Analysis: B QC Batch: 48	2 <b>0 - SS2-15</b> idland TEX 781 923		Analytical M Date Analy: Sample Prej	zed:	S 8021B 2008-05-27 2008-05-27		Prep Meth Analyzed I Prepared I	By: DC
Laboratory: M Analysis: B' QC Batch: 48 Prep Batch: 41	idland TEX 781 923		Date Analyz Sample Prep RL	zed:	2008-05-27 2008-05-27		Analyzed 1 Prepared 1	By: DC By: DC
Laboratory: M Analysis: B ² QC Batch: 48 Prep Batch: 41 Parameter	idland FEX 781	5	Date Analyz Sample Prep RL Result	zed:	2008-05-27 2008-05-27 Units	Di	Analyzed I Prepared I	By: DC 3y: DC RI
Laboratory: M Analysis: B' QC Batch: 48 Prep Batch: 41 Parameter Benzene	idland TEX 781 923	5	Date Analy: Sample Prep RL Result <0.0100	zed:	2008-05-27 2008-05-27 Units mg/Kg	Di	Analyzed 1 Prepared 1 Iution 1	By: DC 3y: DC 
Analysis: B ⁴ QC Batch: 48 Prep Batch: 41 Parameter Benzene Toluene	idland TEX 781 923	5	Date Analyz Sample Prep RL Result	zed:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg	Di	Analyzed I Prepared I	By: DC By: DC 
Laboratory: M Analysis: B QC Batch: 48 Prep Batch: 41 Parameter Benzene Toluene Ethylbenzene	idland TEX 781 923	5	Date Analy: Sample Prep RL Result <0.0100 <0.0100	zed:	2008-05-27 2008-05-27 Units mg/Kg	Di	Analyzed I Prepared I Iution 1 1	By: DC 3y: DC RI 0.0100 0.0100 0.0100
Laboratory: M Analysis: B' QC Batch: 48 Prep Batch: 41 Parameter Benzene	idland TEX 781 923	5	Date Analy: Sample Prep RL Result <0.0100 <0.0100 <0.0100	zed:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg	Di	Analyzed I Prepared I I I 1 1 1	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100
Laboratory: M Analysis: B' QC Batch: 48 Prep Batch: 41 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	idland TEX 781 923 Flag	ç Flag	Date Analy: Sample Prep RL Result <0.0100 <0.0100 <0.0100 Result	zed: paration: Units	2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg	Spike Amount	Analyzed I Prepared I I I I I I I I I I	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits
Laboratory: M Analysis: B' QC Batch: 48 Prep Batch: 41 Parameter Benzene Toluene Ethylbenzene Xylene	idland TEX '781 923 Flag		Date Analy: Sample Prep RL Result <0.0100 <0.0100 <0.0100 <0.0100	zed: paration:	2008-05-27 2008-05-27 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed I Prepared I I I I I I Percent	By: DC By: DC RI 0.0100 0.0100 0.0100 0.0100 Recovery

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	e: May 28, 2008 to Monument 6	inch		Vork Order: ation to Mo		inch	•	nber: 21 of 27 a County, NM
Sample: 16	1020 - SS2-15							
Laboratory:			A 1	M-41-3.		'n	Duran M	The L NI (A
Analysis: QC Batch:	TPH DRO 48730		Analytical I Date Analy		Mod. 8013 2008-05-23		Prep M Analyze	,
Prep Batch:			Sample Pre		2008-05-23 2008-05-23		Prepare	
I Tep Daten.	41002		-		2000-00-20	,	Tiepare	d Dy. DD
Parameter	FI	ag	$\operatorname{RL}$ Result		Units		Dilution	RL
DRO			320		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Diluti	ion	Spike Amount	Percent	Recovery Limits
n-Triacontan		153	mg/Kg	<u>Dnut</u>		100	Recovery 153	10 - 250.4
Sample: 16	1020 - SS2-15							
Laboratory:								
Analysis:	TPH GRO		Analytical M	Method: S	S 8015B		Prep Met	hod: S 5035
							-	
-	48784		Date Analy:	zed: 2	2008-05-27		Analyzed	By: DC
•			Date Analy Sample Prej	zed: 2			-	By: DC
Prep Batch:	41923		Sample Prej RL	zed: 2	2008-05-27 2008-05-27		Analyzed Prepared	By: DC By: DC
Prep Batch: Parameter	41923	ag	Sample Prej RL Result	zed: 2	2008-05-27 2008-05-27 Units		Analyzed Prepared Dilution	By: DC By: DC RL
Prep Batch: Parameter	41923	ag	Sample Prej RL	zed: 2	2008-05-27 2008-05-27		Analyzed Prepared	By: DC By: DC
Prep Batch: Parameter	41923		Sample Prej RL Result	zed: 2	2008-05-27 2008-05-27 Units		Analyzed Prepared Dilution	By: DC By: DC RL
Prep Batch: Parameter GRO Surrogate	41923 FI	ag Flag	Sample Prej RL Result	zed: 2	2008-05-27 2008-05-27 Units	Spike	Analyzed Prepared Dilution 1 Percent	By: DC By: DC RL 1.00
Prep Batch: Parameter GRO Surrogate Trifluorotolue	41923 Fl	Flag	Sample Prep RL Result <1.00 Result 1.11	zed: 2 paration: 2	2008-05-27 2008-05-27 <u>Units</u> mg/Kg	Spike Amour 1.00	Analyzed Prepared Dilution 1 Percent	By: DC By: DC RL 1.00 Recovery Limits 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue	41923 FI	Flag	Sample Prep RL Result <1.00 Result	zed: 2 paration: 2 Units	2008-05-27 2008-05-27 <u>Units</u> mg/Kg Dilution	Spike Amour	Analyzed Prepared Dilution 1 Percent t Recovery	By: DC By: DC RL 1.00 Recovery Limits
QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor	41923 Fl	Flag	Sample Prep RL Result <1.00 Result 1.11	zed: 2 paration: 2 Units mg/Kg	2008-05-27 2008-05-27 <u>Units</u> mg/Kg Dilution 1	Spike Amour 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111	By: DC By: DC RL 1.00 Recovery Limits 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC	Flag	Sample Prep RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 <u>Units</u> mg/Kg mg/Kg	2008-05-27 2008-05-27 <u>Units</u> mg/Kg Dilution 1 1	Spike Amour 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch:	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC 48730	Flag B)	Sample Prej RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg yzed: 2003	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23	Spike Amour 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch:	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC	Flag B)	Sample Prep RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg yzed: 2003	2008-05-27 2008-05-27 <u>Units</u> mg/Kg Dilution 1 1	Spike Amour 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch:	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC 48730	Flag B) C Batch: 48730	Sample Prej RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg vzed: 2003 ation: 2003 MDL	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23	Spike Amour 1.00 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz Prepar	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC 48730	Flag B)	Sample Prej RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg ///Kg /////////////////////	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23	Spike Amour 1.00 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz Prepar	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130 70 - 130 red By: LD red By: LD red By: LD
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter	41923 Fl ene (TFT) robenzene (4-BF ank (1) QC 48730	Flag B) C Batch: 48730	Sample Prej RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg vzed: 2003 ation: 2003 MDL	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23	Spike Amour 1.00 1.00	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz Prepar	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130 70 - 130
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter DRO	41923 Fl ene (TFT) obenzene (4-BF ank (1) QC 48730 41882	Flag B) C Batch: 48730 Flag	Sample Prep RL Result <1.00 Result 1.11 1.06 Date Analy QC Prepar	zed: 2 paration: 2 <u>Units</u> mg/Kg mg/Kg vzed: 2002 ation: 2002 MDL Result 18.8	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23 8-05-23	Spike Amour 1.00 1.00 U mg Spike	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz Prepar nits /Kg Percent	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130 70 - 130 70 - 130 Recovery RL 50 Recovery
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor	41923 Fl ene (TFT) obenzene (4-BF ank (1) QC 48730 41882 Flag	Flag B) C Batch: 48730	Sample Prej RL Result <1.00 Result 1.11 1.06	zed: 2 paration: 2 Units mg/Kg mg/Kg ///Kg /////////////////////	2008-05-27 2008-05-27 Units mg/Kg Dilution 1 1 8-05-23 8-05-23	Spike Amour 1.00 1.00 Um	Analyzed Prepared Dilution 1 Percent t Recovery 111 106 Analyz Prepar nits	By: DC By: DC RL 1.00 Recovery Limits 70 - 130 70 - 130 70 - 130 20 - 130 Recovery Limits 70 - 130 70 - 130

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Report Date: May 28, 2008 Lea Station to Monument 6 inch	L	Lea		Order: 808 to Monun	52303 nent 6 inch		Ų		22 of 27 nty, NM
Method Blank (1) QC Ba	.tch: 48781								
QC Batch: 48781		Date Ar	-	2008-0				lyzed By	
Prep Batch: 41923		QC Prej	paration:	2008-0	5-27		Prep	oared By	r: DC
				MDL					
Parameter	Flag			Result		Uni	its		RL
Benzene			<0	.00110		mg/	Kg		0.01
Toluene				.00150		mg/	Kg		0.01
Ethylbenzene				.00160		mg/	-		0.01
Xylene		· · ·	<0.	.00410		mg/	Kg		0.01
						Spike	Percent	R	ecovery
Surrogate	Flag	Result	Uni	its I	Dilution	Amount	Recover		Limits
Trifluorotoluene (TFT)		0.974	mg/	Kg	1	1.00	97		0 - 130
4-Bromofluorobenzene (4-BFB)		0.873	mg/	Kg	1	1.00	87	7	0 - 130
								yzed By	
Prep Batch: 41923		QC Prep			5-27			ared By	
-	Flag	QC Prep	Μ	2008-0 IDL sult	5-27	Unit	Prep		
Parameter	Flag	QC Prep	M Re	IDL	5-27	Unit mg/I	Prep		: DC
-	Flag	QC Prep	M Re	IDL sult	5-27	mg/H	Prep 55 Kg	ared By	: DC RL 1
Parameter ] GRO			M Re <0.	fDL sult .739		mg/H Spike	Prep 55 Kg Percent	ared By	: DC RL 1 ecovery
Parameter I GRO Surrogate	Flag Flag	QC Prep Result 1.22	M Re <0. Uni	IDL sult .739 ts I	5-27 Dilution	mg/H	Prep 55 Kg	ared By	: DC RL 1
Parameter ] GRO Surrogate Trifluorotoluene (TFT)		Result	M Re <0.	IDL sult 739 ts I Kg	Dilution	mg/H Spike Amount	Prep 55 Xg Percent Recovery	ared By R y 7	: DC RL 1 ecovery Limits
Parameter	Flag	Result 1.22	M Re <0. Uni mg/I mg/I alyzed:	IDL sult 739 ts I Kg Kg 2008-09	Dilution 1 1 5-23	mg/H Spike Amount 1.00	Prep 58 Kg Percent Recovery 122 118 Anal	ared By R y 7	: DC RL 1 ecovery Limits 0 - 130 0 - 130
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (Lo QC Batch: 48730 Prep Batch: 41882	Flag CS-1)	Result 1.22 1.18 Date An QC Prep	M Re <0. Uni mg/J mg/J alyzed:	IDL sult 739 ts I Kg Kg 2008-03 2008-03	Dilution 1 1 5-23 5-23 Spike	mg/H Spike Amount 1.00 1.00	Prep	R 7 7 y 2 yzed By ared By	: DC RL 1 ecovery Limits 0 - 130 0 - 130 r: LD : LD Rec.
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (L4 QC Batch: 48730 Prep Batch: 41882 Param	Flag CS-1) LCS Resu	Result 1.22 1.18 Date An QC Prep S	M Re <0. Uni mg/J mg/J alyzed: paration:	IDL sult 739 ts I Kg Kg 2008-03 2008-03 2008-03	Dilution 1 1 5-23 5-23 Spike Amount	mg/H Spike Amount 1.00 1.00 Matrip Result	Prep	R y 7 7 y 2 yzed By ared By I L	: DC RL 1 ecovery Limits 0 - 130 0 - 130 r: LD : LD Rec. imit
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (Lo QC Batch: 48730 Prep Batch: 41882 Param DRO	Flag CS-1) LCS Resu 256	Result 1.22 1.18 Date An QC Prep S It U	M Re <0. Uni mg/J mg/J alyzed: oaration: fuits g/Kg	IDL sult .739 ts I Kg Kg 2008-03 2008-03 2008-03 2008-03 2008-03 2008-03	Dilution 1 1 5-23 5-23 5-23 Spike Amount 250	mg/H Spike Amount 1.00 1.00 Matrip Result 18.8	Prep SS Cg Percent Recovery 122 118 Anal Prep C C Rec. 95	R y 7 7 y 2 yzed By ared By I L	: DC RL 1 ecovery Limits 0 - 130 0 - 130 r: LD : LD Rec.
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (Lo QC Batch: 48730	Flag CS-1) LCS Resu 256	Result 1.22 1.18 Date An QC Prep S It U	M Re <0. Uni mg/J mg/J alyzed: oaration: fuits g/Kg	IDL sult .739 ts I Kg Kg 2008-03 2008-03 2008-03 2008-03 2008-03 2008-03	Dilution 1 1 5-23 5-23 5-23 Spike Amount 250	mg/H Spike Amount 1.00 1.00 Matrip Result 18.8	Prep SS Cg Percent Recovery 122 118 Anal Prep C C Rec. 95	R y 7 7 y 2 yzed By ared By I L	: DC RL 1 ecovery Limits 0 - 130 0 - 130 - 130 r: LD : LD Rec. imit
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (Lo QC Batch: 48730 Prep Batch: 41882 Param DRO	Flag CS-1) LCS Resu 256	Result 1.22 1.18 Date An QC Prep S It U	M Re <0. Uni mg/J mg/J alyzed: oaration: fuits g/Kg	IDL sult .739 ts I Kg Kg 2008-03 2008-03 2008-03 2008-03 2008-03 2008-03	Dilution 1 1 5-23 5-23 5-23 Spike Amount 250	mg/H Spike Amount 1.00 1.00 Matrip Result 18.8	Prep SS Cg Percent Recovery 122 118 Anal Prep C C Rec. 95	R y 7 7 y 2 yzed By ared By I L	: DC RL 1 ecovery Limits 0 - 130 0 - 130 r: LD : LD Rec. imit
Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (Lo QC Batch: 48730 Prep Batch: 41882 Param DRO	Flag CS-1) LCS Resu 256 spike result.	Result 1.22 1.18 Date An QC Prep S It U	M Re <0. Uni mg/J mg/J alyzed: oaration: fuits g/Kg	IDL sult .739 ts I Kg Kg 2008-03 2008-03 2008-03 Dil. 1 the spike	Dilution 1 1 5-23 5-23 5-23 Spike Amount 250 and spike of	mg/H Spike Amount 1.00 1.00 Matrip Result 18.8	Prep SS Cg Percent Recovery 122 118 Anal Prep C S Rec. 95 esult.	R y 7 7 y 2 yzed By ared By I L	: DC RL 1 ecovery Limits 0 - 130 0 - 130 0 - 130

Report Date: May 28, 2 Lea Station to Monume			Le		Order: 8052 to Monume		nch					23 of 2' unty, NM
Percent recovery is base	d on the sp	oike result.	RPD is	s based on	the spike a	and sp	ike dup	licate 1	esult.			
	LCS	LCSI	)			Spi	ke	LCS	5	LCSD		Rec.
Surrogate	Result	Resul		Units	Dil.	Amo		Rec		Rec.		Limit
n-Triacontane	108	118	1	ng/Kg	1	10	0	108		118	3	8 - 130.4
Laboratory Control S	Spike (LC	S-1)										
QC Batch: 48781			Date A	Analyzed:	2008-05-	27				Anal	yzed B	y: DC
Prep Batch: 41923				eparation	: 2008-05-	27				Prep	ared B	y: DC
		$\mathbf{LC}$	S			$\mathbf{Spi}$	ke	Ma	trix			Rec.
Param		Resi		Units	Dil.	Amo	_		sult	Re		Limit
Benzene		0.84		mg/Kg	1	1.0			0110	84		70 - 130
Toluene		0.87		mg/Kg	1	1.(			0150	88		70 - 130
Ethylbenzene Veder e		0.91		mg/Kg	1	1.0 3.0	,		0160	91 89		70 - 130 70 - 130
Xylene		2.6		mg/Kg	1				0410		,	70 - 130
Percent recovery is base	d on the sp		RPD is	s based on				licate 1				
_		LCSD			Spike		atrix	_		ec.		RPD
Param		Result	Units		Amount		esult	Rec.		$\frac{\text{mit}}{100}$	RPD	Limi
Benzene Toluene		0.843	mg/K		1.00		$\begin{array}{c} 00110 \\ 00150 \end{array}$	84 88		130 130	$\begin{array}{c} 0 \\ 1 \end{array}$	20
Ethylbenzene		$\begin{array}{c} 0.883 \\ 0.917 \end{array}$	mg/K mg/K		$\begin{array}{c} 1.00\\ 1.00\end{array}$		00150	00 92		130	1	20 20
Xylene		2.70	mg/K mg/K		3.00		00410	90		130	1	20 20
Percent recovery is base	d on the sp											
		$\mathbf{LC}$	S I	LCSD			Spi	ke	LCS	LC	SD	Rec.
Surrogate		Resu		Result	Units	Dil.	Amo		Rec.	Re		Limit
Trifluorotoluene (TFT)		0.93	32	0.939	mg/Kg	1	1.0	0	93	94	4	70 - 130
					·	1	1.0	0	84	8	5	70 - 130
	4-BFB)	0.84	14	0.846	mg/Kg	*						
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784			Date 4	0.846 Analyzed: reparation:	2008-05-	27					yzed B ared B	-
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784 Prep Batch: 41923		2 <b>S-1</b> ) L(	Date A QC Pr	Analyzed: reparation	2008-05- : 2008-05-	27 27 S	pike		utrix sult	Prep	ared B	y: DC Rec.
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784 Prep Batch: 41923 Param		2 <b>S-1)</b> L( Res	Date A QC Pr CS ult	Analyzed: reparation Units	2008-05-	27 27 S An	pike 10unt	Re	sult	Prep Rec	ared B	y: DC Rec. Limit
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784 Prep Batch: 41923	Spike (LC	2 <b>S-1)</b> LC Res 9.4	Date A QC Pr CS ult 47	Analyzed: eparation: Units mg/Kg	2008-05- 2008-05- Dil. 1	27 27 S <u>An</u> 1	pike 10unt 0.0	Re <0	sult .739	Prep	ared B	y: DC Rec. Limit
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784 Prep Batch: 41923 Param GRO	Spike (LC	2 <b>S-1)</b> LC Res 9.4	Date 4 QC Pr CS ult 47 RPD is	Analyzed: eparation: Units mg/Kg s based on	2008-05- 2008-05- Dil. 1	27 27 An 1 and sp M	pike nount 0.0 ike dup atrix	Re <0 licate 1	sult .739	Prep Rec 95	ared B	y: DC Rec.
4-Bromofluorobenzene ( Laboratory Control S QC Batch: 48784 Prep Batch: 41923 Param GRO	Spike (LC	S-1) LC Res 9.4 Dike result.	Date A QC Pr CS ult 47	Analyzed: reparation Units mg/Kg s based on s Dil.	2008-05- 2008-05- Dil. 1 the spike a	27 27 An 1 and sp M R	pike iount 0.0 ike dup	Re <0	esult 1.739 result.	Prep Rec 95 ec. nit	ared B	y: DC Rec. Limit 70 - 130

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

Surrogate	$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.14	1.14	mg/Kg	1	1.00	114	114	70 - 130
4-Bromofluorobenzene (4-BFB)	1.11	1.11	mg/Kg	1	1.00	111	111	70 - 130

#### Matrix Spike (MS-1) Spiked Sample: 161006

QC Batch:	48730	Date Analyzed:	2008-05-23	Analyzed By:	LD
Prep Batch:	41882	QC Preparation:	2008-05-23	Prepared By:	LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	Limit
DRO	582	mg/Kg	1	250	407.92	70	18 - 179.5

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

	MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	609	mg/Kg	1	250	407.92	80	18 - 179.5	4	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	$\operatorname{Result}$	$\mathbf{Result}$	Units	Dil.	$\mathbf{A}\mathbf{m}\mathbf{o}\mathbf{u}\mathbf{n}\mathbf{t}$	Rec.	$\operatorname{Rec.}$	Limit
n-Triacontane	142	153	mg/Kg	1	100	142	153	34.1 - 158

#### Matrix Spike (MS-1) Spiked Sample: 160850

QC Batch:	48781	Date Analyzed:	2008-05-27	Analyzed By:	$\mathbf{DC}$
Prep Batch:	41923	QC Preparation:	2008-05-27	Prepared By:	$\mathbf{DC}$

	MS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	Units	Dil.	Amount	$\operatorname{Result}$	Rec.	$\operatorname{Limit}$
Benzene	4.32	mg/Kg	5	5.00	< 0.00550	86	70 - 130
Toluene	4.40	mg/Kg	5	5.00	< 0.00750	88	70 - 130
Ethylbenzene	4.57	mg/Kg	5	5.00	0.0629	90	70 - 130
Xylene	13.7	mg/Kg	5	15.0	0.249	90	70 - 130

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

	MSD			Spike	Matrix		Rec.		RPD
Param	$\operatorname{Result}$	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	$\operatorname{Limit}$
Benzene	4.38	mg/Kg	5	5.00	< 0.00550	88	70 - 130	1	20
Toluene	4.46	mg/Kg	5	5.00	< 0.00750	89	70 - 130	1	20
Ethylbenzene	4.62	mg/Kg	5	5.00	0.0629	91	70 - 130	1	20
Xylene	13.9	mg/Kg	5	15.0	0.249	91	70 - 130	1	20

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

-	MS	MSD	<b>.</b>		Spike	MS	MSD	Rec.
Surrogate	$\operatorname{Result}$	$\operatorname{Result}$	Units	Dil.	$\operatorname{Amount}$	Rec.	Rec.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	4.55	4.62	mg/Kg	5	5	91	92	70 - 130
4-Bromofluorobenzene (4-BFB)	4.29	4.20	mg/Kg	5	5	86	84	70 - 130

#### Matrix Spike (MS-1) Spiked Sample: 161020

QC Batch:	48784	Date Analyzed:	2008-05-27	Analyzed By:	$\mathbf{DC}$
Prep Batch:	41923	QC Preparation:	2008-05-27	Prepared By:	$\mathbf{DC}$

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	1	15.4	mg/Kg	1	10.0	< 0.739	154	70 - 130

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

		MSD			Spike	Matrix		Rec.		RPD
Param		$\operatorname{Result}$	Units	Dil.	Amount	$\operatorname{Result}$	Rec.	Limit	RPD	Limit
GRO	2	14.3	mg/Kg	1	10.0	< 0.739	143	70 - 130	7	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	$\operatorname{Result}$	$\operatorname{Result}$	Units	Dil.	$\operatorname{Amount}$	Rec.	Rec.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	1.08	1.10	mg/Kg	1	1	108	110	70 - 130
4-Bromofluorobenzene (4-BFB)	1.04	1.06	mg/Kg	1	1	104	106	70 - 130

#### Standard (ICV-1)

QC Batch:	48730		Date Ana	alyzed: 2008-0	5-23	Ana	lyzed By: LD
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2008-05-23

#### Standard (CCV-1)

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QC Batch: 48730

Date Analyzed: 2008-05-23

Analyzed By: LD

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

Lea Station to N	Ionument	6 inch	Lea Sta	ation to Monum	ient 6 inch	I	Lea County, NN
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
	lag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2008-05-2
tandard (CC	V-2)						
C Batch: 487	30		Date Analy	yzed: 2008-05-	-23	Anal	yzed By: LD
			CCVs	CCVs	CCVs	Percent	
		<b>T</b> T <b>T</b> .	True	Found	Percent	Recovery	Date
aram F RO	lag	Units	Conc. 250	<u>Conc.</u> 272	Recovery 109	Limits 85 - 115	Analyzed 2008-05-2
		mg/Kg	290	212	103	60 - 110	2008-00-2
tandard (ICV	7-1)						
C Batch: 487	81		Date Analy	zed: 2008-05-	27	Anal	yzed By: DC
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
aram	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
enzene		mg/Kg	0.100	0.0892	89	85 - 115	2008-05-2
oluene		mg/Kg	0.100	0.0929	93	85 - 115	2008-05-2
thylbenzene		mg/Kg	0.100	0.0953	95	85 - 115	2008-05-2
lylene		mg/Kg	0.300	0.280	93	85 - 115	2008-05-2
tandard (CC	V-1)						
C Batch: 487	81		Date Analy	zed: 2008-05-	27	Anal	yzed By: DC
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
aram	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
enzene	3	mg/Kg	0.100	0.0822	82	85 - 115	2008-05-2
oluene		mg/Kg	0.100	0.0852	85	85 - 115	2008-05-2
thylbenzene		mg/Kg	0.100	0.0877	88	85 - 115	2008-05-2
Lylene		mg/Kg	0.300	0.260	87	85 - 115	2008-05-2
tandard (ICV	⁷ -1)						
C Batch: 487	84		Date Analy	zed: 2008-05-	27	Anal	yzed By: DC
	e of control l	imits on CCV. CC	 V component ave	erage is 0.0858 whi	ich is within acceptal	ole range. This is acc	ceptable by Metl
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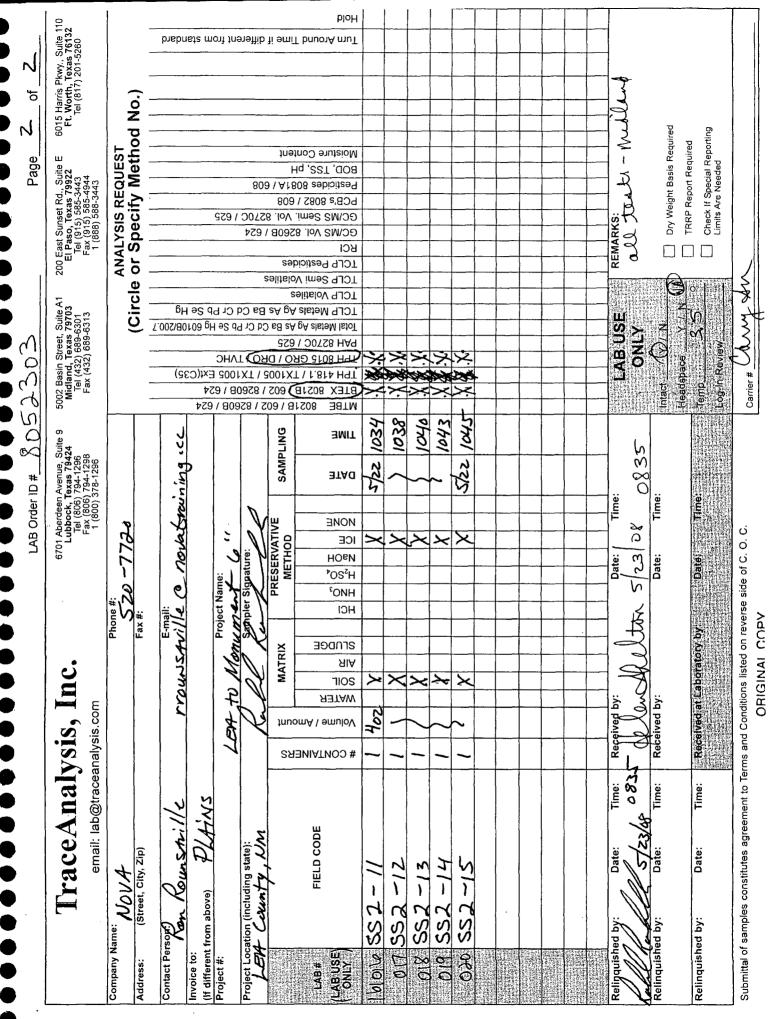
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Report Date: May 28, 2008 Lea Station to Monument 6 inch			Lea S	Work Order: 80 Station to Monu	002000	Page Number: 27 of 27 Lea County, NM			
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
GRO		mg/Kg	1.00	1.08	108	85 - 115	2008-05-27		
Standard	Standard (CCV-1) QC Batch: 48784				Analyzed By: DC				
QC Batch:	48784		Date Ana	alyzed: 2008-0	5-27	Anal	yzed By: DC		
QC Batch:	48784		Date Ana CCVs	ulyzed: 2008-0. CCVs	5-27 CCVs	Anal Percent	yzed By: DC		
QC Batch:	48784			-			yzed By: DC Date		
QC Batch: Param	: 48784 Flag	Units	CCVs	CCVs	CCVs	Percent			

							<u>لہ</u>	LAB Order ID #	r ID #	805	S	$\int_{\Omega}$					Page		of <u>Z</u>	.1
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	ubmittal of samples co	onstitutes agree	ment to Ten	ms and Con	ditions listed on	reverse s						LA V	Ž							



# APPENDIX D

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District I 525 N. French Dr., Hobbs, NM 88240 District II 01 W. Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Road, Aztec, NM 87410 District IV 220 S. St. Francis Dr., Santa Fe, NM 87505 Ø

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

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

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

0			Rele	ease	e Notifi	catio	on and Co	orrective	Action				
0			_				<b>OPER</b>				al Report		Final Report
Name of Co			Pipeline,				Contact:		nille Reyn				
Address:		5 E. Hwy 15			X 79706		Telephone I		5-441-0965				
Facility Nar	ne	Lea to I	Monumer	nt 6"			Facility Typ	be: 6" 3	Steel Pipeli	ne			
Surface Ow		aughlin Esta	te		Mineral	Owner				Lease 1	No.		
					LOC	ATIC	ON OF RE	LEASE					
Unit Letter I	Section 5	Township 20S	Range 37E	Fee	t from the	Nort	h/South Line	Feet from th	e East/V	Vest Line	County Lea		
			Latitu	de <u>_3</u> 2	_		4" Longitud		es 15' 56.1	-			
T. C.D. I		01			NA	UKI	E OF REL	Release: 3 b		Volumo I	Recovered 0	homolo	
Type of Rele Source of Re								Iour of Occur			Hour of Disc		
Was Immedia	ate Notice (		es 🗌 N	Jo [	] Not Req	uired	If YES, To	Whom?	- <u></u>	11.00			
By Whom?	·						Date and H	Iour					
Was a Watero	course Read	_	Yes 🗵	No				olume Impacti	ng the Wate	rcourse.			
Describe Cau	se of Probl	em and Reme	tial Action	n Tak	cen.* Interna	al corro	sion of 6" stee	pipeline. A c	lamp was ir	stalled on	the line to m	itigate	the release.
Describe Are approximatel <b>NOTE: This</b> <b>information</b> I hereby certi regulations al	a Affected y 10' x 80' information to be correct fy that the i l operators	and Cleanup A on was obtain ect. Information gi are required to	Action Tak ed from I ven above o report an	ten.* nistor is tru is tru	A clamp war rical EOTT ue and comp file certain	as insta files, I plete to release	lled on the line Plains acquire the best of my notifications a he NMOCD m	to mitigate th d EOTT/Linl knowledge ar ad perform co	e release. T <b>c on April 1</b> ad understar rrective acti	he aerial e , 2004 and d that purs	extent of surface <b>d Plains assu</b> suant to NMC eases which	ace im imes th DCD r may en	pact was his ules and ndanger
should their o	perations h ument. In a	ave failed to a didition, NMC	dequately CD accep	inve	stigate and	remedia	ate contaminati does not reliev	on that pose a e the operator	threat to gr of responsi	ound wate bility for c	r, surface wa ompliance w	ter, hu ith any	man health
2						ĺ		<u>OIL CC</u>	<u>NSERV</u>	ATION	DIVISIO	N	
Signature:							Approved by	District Supe	visor.				
Printed Name	e: Ca	mille Reynold	ls										
Title:	Re	mediation Co	ordinator				Approval Dat	e:	I	Expiration	Date:		
E-mail Addre	ess: cjr	eynolds@paa	p.com				Conditions of	Approval:			Attached		
Date: 3/21/20 * Attach Addit		ets If Necess	Phone: ary	(5	505)441-096	55	·						