



July 18, 2016 Reference No. 088210-19

Mr. Zane Kurtz Sr. Safety and Environmental Representative 5509 Champions Dr. Midland, TX 79706 VIA E-Mail: zane_kurtz@eogresources.com

Dear Mr. Kurtz:

Re: Assessment Summary Report

Short Fuse Federal No. 1 (API #30-025-29897)

1RP-3832-0

EOG Resources, Inc.

Site Location: Unit H, Sec. 11, T 18-S, R 32-E

(Lat 32.7636°, Long -103.7306°) Lea County, New Mexico

On behalf of EOG Resources Inc. (EOG), GHD Services, Inc. (GHD, formerly Conestoga-Rovers & Associates) is pleased to present this report for the above referenced site. Assessment activities were performed at the Short Fuse Federal No. 1 (hereafter referred to as the "Site"), from October 06, 2015 to June 29, 2016. The Site is located within Unit A, Section 36, Township 24 South, Range 33 East, in Lea County, New Mexico (Figure 1).

The Site is an active tank battery located approximately 35 miles west-northwest of Hobbs, New Mexico. The release occurred in an adjacent pasture to the south of the well pad. According to EOG personnel, a release of approximately five barrels (bbls) of produced water with some oil was released when an elbow on a heater-treater failed. The release occurred on August 16, 2015. During the clean-up of the release, an historical release was discovered that extended into the pasture. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit (RP) number 1RP-3832-0 was assigned.

During the clean-up of the release, United States Bureau of Land Management (BLM) personnel were present on Site and observed the activities. A Notice of Written Order was submitted by the BLM for the release dated August 20, 2015. The BLM provided an archeological clearance of the area in an email dated August 31, 2015.

1. Introduction

During the clean-up of the release, an historical release was discovered that extended into the pasture to the south of the Site. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit (RP) number 1RP-3832-0 was assigned. Approximately 100 cubic

yards (yd3) of impacted soil was removed and disposed of at the Lea Land LLC, east of Carlsbad, New Mexico (Lea Land).

During the clean-up of the release, United States BLM personnel observed the work being performed and issued a Notice of Written Order. The Notice of Written order was submitted by the BLM for the release dated August 20, 2015. The BLM provided an archeological clearance of the area in an email dated August 31, 2015.

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on information available from the NMOCD GIS Oil and Gas Map, the depth to groundwater in well L-06131 located approximately 2.7 miles east of the Site is 100 feet (ft) below ground surface (bgs). The New Mexico Tech Pit Portal site indicates a well at a depth of 65 ft bgs located approximately 4,000 feet to the northwest of the Site. Based on this, the depth to groundwater appears to be between 50 and 100 ft bgs.

There do not appear to be any well head protection areas and no surface water bodies within 200 to 1000 ft of the Site. Therefore, the preliminary total ranking score for the Site is 10 (see table below).

Based on this score, the applicable NMOCD Site-specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1000 mg/kg for total petroleum hydrocarbons (TPH), and 250 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (50-99 ft bgs)	10
Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (200-1000 ft)	0
Ranking Criteria Total Score	10*
*Because the ranking criteria total score is 10, NMOCD established RRALs are benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH¹, and 250 mg/kg for chl	

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

Site assessment activities were initially performed by CH2M Hill of Dallas, Texas. Soil sampling was performed on September 21, 2015 and November 24, 2015 (Figure 2). Excavation activities were performed by SDR Enterprises, LLC of Hobbs, New Mexico. Soil samples were analyzed by TraceAnalysis, Inc. (TraceAnalysis) of Lubbock, Texas.

The analytical data obtained from the soil samples collected by CH2M Hill indicated that the horizontal extent of petroleum hydrocarbon and chloride concentrations had been delineated to below RRALs. However, the vertical extent of chloride concentrations along the north wall and excavation floor in an area denoted as "Location C" exceeded the Site RRAL (Figure 2).

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Further soil sampling was performed by GHD on February 29, 2016 to assess the vertical extent of chloride concentrations in the soil along the north wall of "Location C". Two additional soil samples were collected using a hand auger at depths of 11 ft bgs and 13.5 ft bgs. The samples were submitted to Xenco Laboratories of Odessa, Texas for analysis of chloride by EPA Method 300.

Additional soil samples were also collected to confirm that the horizontal extent of COCs had been assessed. Soil samples were collected at 4 ft bgs in six locations within the areas of concern using a hand auger. The samples were submitted to Xenco Laboratories for analysis of chloride by EPA Method 300.

Laboratory analytical results from this event indicate that chloride concentrations in the samples that were submitted were below the RRAL for chloride with the exception of the sample ending in SP-07 with a concentration of 350 mg/kg. Sample SP-07 was collected from the northwest corner of "Location C" (Table 1).

An additional soil sample was collected by GHD from "Location C" after excavating to a depth of 12 feet bgs with a backhoe on May 20, 2016. The sample was also analyzed for chloride. The results of this sample indicated that the chloride concentration was above the site RRAL for chloride with a concentration of 340 mg/kg (Table 1).

In order to further assess the vertical extent of chloride impacts in the floor area of "Location C" near CH2M Hills sample collected in November of 2015, GHD collected a sample from 20 feet bgs on June 16, 2016. The sample was analyzed for chloride and returned a result with a chloride concentration of 500 mg/kg, exceeding the site RRAL (Table 1).

In an attempt to complete vertical assessment of chloride impacts in the in the area of the excavation floor a soil boring was advanced by EnviroDrill, Inc. of Albuquerque, NM on June 29, 2016. Soil samples were collected by GHD from 25 feet bgs, 30 feet bgs, and 35 feet bgs and analyzed for chloride (See Table 1). Laboratory results from this event indicate that chloride concentrations were below the Site RRAL for chloride (see Appendix A).

Based on analytical results from soil assessment performed by CH2M Hill and GHD, it appears that the vertical and horizontal extent of hydrocarbons and chloride have been assessed at the Site.

During the assessment activities, a total of approximately 680 tons (approximately 1020 cubic yards) of impacted soil were excavated and transported to Lea Land for landfill disposal. Waste manifests are included as Appendix B.

3. Summary and Recommendations

Based on the assessment activities, the horizontal and vertical extent of petroleum hydrocarbon and chloride concentrations appear to have been assessed to within the NMOCD RRALs. GHD recommends the following:

- Placement of a 20 mil polyethylene liner in the bottom of the excavation at a depth of 4 ft bgs,
- Backfilling of the excavation with clean fill material and wheel compacting to grade, and

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Fertilizing and reseeding of the disturbed area with a BLM-approved seed mix.

Following completion of the above activities EOG will request that no further action be required for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672 or Bernard.Bockisch@ghd.com.

Sincerely,

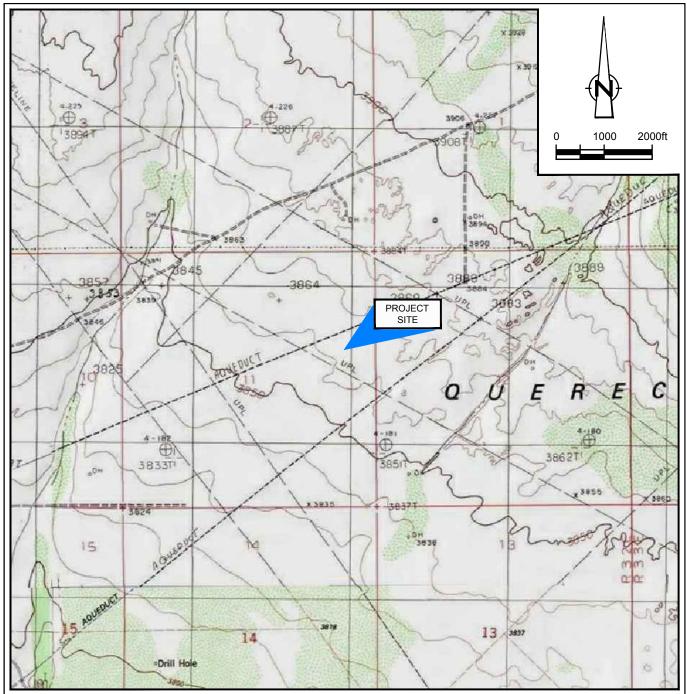
GHD

Bernard Bockisch Senior Project Manager

BB/mc/02

Christine Mathews, Staff Scientist

Figures

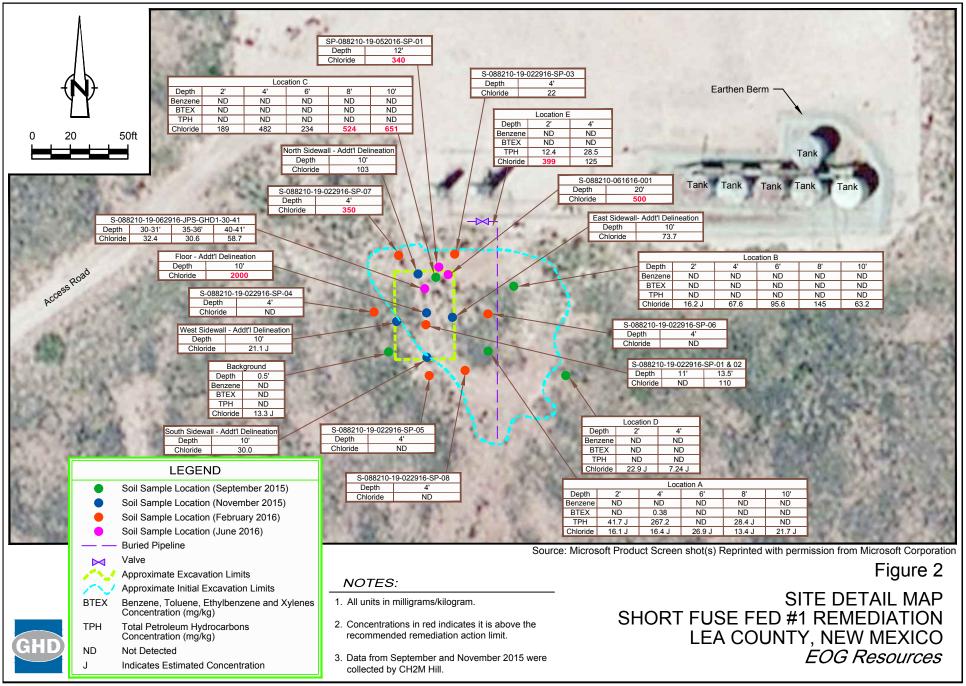


SOURCE: USGS 7.5 MINUTE QUAD
"DOG LAKE, LAGUNA GATUNA NW, GREENWOOD LAKE,
AND MALJAMAR, NEW MEXICO"

LAT/LONG: 32.7636° NORTH, 103.7306° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO EAST



Figure 1
SITE LOCATION MAP
SHORT FUSE FED #1 REMEDIATION
LEA COUNTY, NEW MEXICO
EOG Resources



Tables

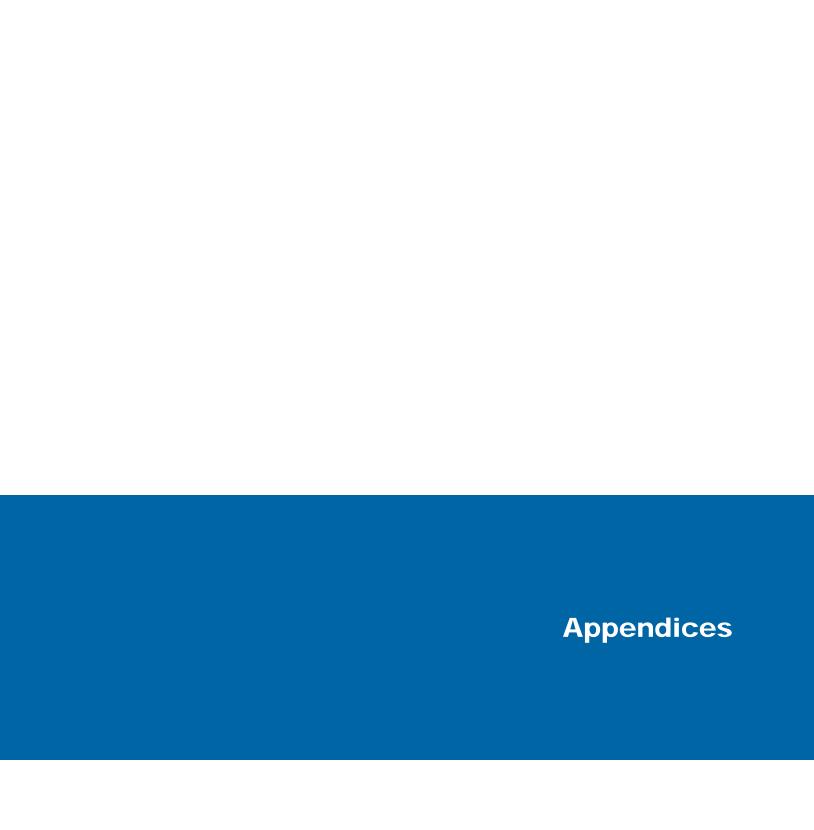
Table 1

Short Fuse State No. 1 Analytical Data

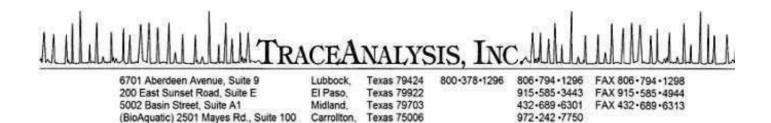
Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH (GRO)	TPH (DRO)	ТРН	Chloride
Recommended Remediation Ac		S	10		Total BTEX: 50	I.			1000	500
Background										
FUSE-BG-0.5'-09212015(c)	0.5	9/21/2015	< 0.00550	<0.00665	< 0.0120	<0.00902	<2.39	<5.38	<7.77	13.3 J
Location A										
FUSE-A-2'-09212015	2	9/21/2015	<0.00566	<0.00685	< 0.0123	<0.00928	<2.46	41.7 J	41.7 J	16.1 J
FUSE-A-4'-09212015	4	9/21/2015			0.0619	0.317	13.2	254	267.2	16.4 J
FUSE-A-6'-09212015	6	9/21/2015			<0.0136	<0.0102	<2.72	<6.13	<8.85	26.9 J
FUSE-A-8'-09212015	8	9/21/2015			<0.0133	<0.0100	<2.66	28.4 J	28.4 J	13.4 J
FUSE-A-10'-09212015	10	9/21/2015	<0.00608		< 0.0132	<0.00998	<2.65	<5.96	<8.61	21.7 J
Location B	10	3/2 1/2013	<0.00000	<0.00730	<0.013Z	<0.00330	\Z.00	\0.50	\0.01	21.7 0
FUSE-B-2'-09212015	2	9/21/2015	<0.00E52	<0.00660	<0.0120	<0.00906	<2.40	<5.41	<7.81	16.2 J
FUSE-B-4'-09212015	4		<0.00553		<0.0120	<0.00908	<2.40	<5.66	<8.18	67.6
FUSE-B-6'-09212015	6	9/21/2015			<0.0134	<0.0101	<2.68	<6.03	<8.71	95.6
FUSE-B-8'-09212015	8		<0.00641		<0.0139	<0.0105	<2.79	<6.27	<9.06	145
FUSE-B-10'-09212015	10	9/21/2015	<0.00598	<0.00723	<0.0130	<0.00980	<2.60	<5.85	<8.45	63.2
Location C										
FUSE-C-2'-09212015	2	9/21/2015			<0.0121	<0.00910	<2.41	<5.43	<7.84	189
FUSE-C-4'-09212015	4	9/21/2015			<0.0141	<0.0106	<2.82	<6.35	<9.17	482
FUSE-C-6'-09212015	6	9/21/2015	<0.00566	<0.00685	< 0.0123	<0.00929	<2.46	<5.55	<8.01	234
FUSE-C-8'-09212015	8	9/21/2015	<0.00601	<0.00727	< 0.0131	<0.00985	<2.62	<5.88	<8.50	524
FUSE-C-10'-09212015	10	9/21/2015	< 0.00607	< 0.00735	< 0.0132	<0.00995	<2.64	<5.94	<8.58	651
Location D										
FUSE-D-2'-09212015	2	9/21/2015	< 0.00542	<0.00656	< 0.0118	<0.00889	<2.36	<5.31	<7.67	22.9 J
FUSE-D-4'-09212015	4	9/21/2015	<0.00538	<0.00652	< 0.0117	<0.00883	<2.34	<5.27	<7.61	7.24 J
Location E										
FUSE-E-2'-09212015	2	9/21/2015	< 0.00559	<0.00677	< 0.0122	< 0.00917	<2.44	12.4 J	12.4 J	399
FUSE-E-4'-09212015	4	9/21/2015	<0.00559	< 0.00676	<0.0122	<0.00916	<2.34	28.5 J	28.5 J	125
Fuse-W-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	21.1 J
Fuse-N-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	103
Fuse-E-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	73.7
Fuse-FL-10-11252015	10	11/25/2015	NA	NA	NA	NA	NA	NA	NA	2000
Fuse-S-10-11252015	10	11/25/2015	NA	NA	NA	NA	NA	NA	NA	30
GHD Sample Collection										
S-088210-022916-SP-01	11	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<1.5
S-088210-022916-SP-02	13.5	2/29/2016	NA	NA	NA	NA	NA	NA	NA	110
S-088210-022916-SP-03	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	22
S-088210-022916-SP-04	4	2/29/2016	NA	NA	NA NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-05	4	2/29/2016	NA	NA	NA NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-06 S-088210-022916-SP-07	4 4	2/29/2016 2/29/2016	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<7.5 350
S-088210-022916-SP-08	4	2/29/2016	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<7.5
S-088210-022910-SF-08 S-088210-19-052016-SP-01	4 12	5/20/2016	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	350
S-088210-19-061616-SP-01	20	6/16/2016	NA	NA	NA NA	NA	NA	NA	NA	500
S-088210-062916-JPS-GHD1-30-31	30	6/29/2016	NA	NA	NA	NA	NA	NA	NA	32.45
S-088210-062916-JPS-GHD1-35-36	35	6/29/2016	NA	NA	NA	NA	NA	NA	NA	30.6
S-088210-062916-JPS-GHD1-40-41	40	6/29/2016	NA	NA	NA	NA	NA	NA	NA	58.7

Notes

All samples are in milligrams per kilogram Bolded numbers are above the RRAL All samples are in milligrams per kilogram J = Estimated concentration



Appendix A Analytical Data



Certifications

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Report Date: October 6, 2015

15092227

Work Order:

Jennifer Dussor CH2M Hill 12750 Merit Dr. Ste. 1100 Dallas, Tx, 75251

Project Location: Lea Co, NM Project Name: Short Fuse Fed #1

 $Enclosed \ are \ the \ Analytical \ Report \ and \ Quality \ Control \ Report \ for \ the \ following \ sample(s) \ submitted \ to \ TraceAnalysis, \\ \textbf{TraceAnalysis}, \ \textbf{TraceAnalys$

me.			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
404963	FUSE-B-2'-09212015	soil	2015-09-21	12:14	2015-09-22
404964	FUSE-B-4'-09212015	soil	2015-09-21	12:18	2015-09-22
404965	FUSE-B-6'-09212015	soil	2015-09-21	12:22	2015-09-22
404966	FUSE-B-8'-09212015	soil	2015-09-21	12:26	2015-09-22
404967	FUSE-B-10'-09212015	soil	2015-09-21	12:30	2015-09-22
404968	FUSE-C-2'-09212015	soil	2015-09-21	12:44	2015-09-22
404969	FUSE-C-4'-09212015	soil	2015-09-21	12:48	2015-09-22
404970	FUSE-C-6'-09212015	soil	2015-09-21	12:52	2015-09-22
404971	FUSE-C-8'-09212015	soil	2015-09-21	12:56	2015-09-22
404972	FUSE-C-10'-09212015	soil	2015-09-21	13:00	2015-09-22
404973	FUSE-D-2'-09212015	soil	2015-09-21	13:14	2015-09-22
404974	FUSE-D-4'-09212015	soil	2015-09-21	13:18	2015-09-22
404975	FUSE-E-2'-09212015	soil	2015-09-21	13:30	2015-09-22
404976	FUSE-E-4'-09212015	soil	2015-09-21	13:34	2015-09-22
404977	FUSE-BG-0.5'-09212015	soil	2015-09-21	13:40	2015-09-22

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes

sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 46 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

Sample 404963 (FUSE-B-2'-09212015) Sample 404964 (FUSE-B-4'-09212015) Sample 404965 (FUSE-B-6'-09212015) Sample 404965 (FUSE-B-10'-09212015) Sample 404967 (FUSE-B-10'-09212015) Sample 404968 (FUSE-C-2'-09212015) Sample 404969 (FUSE-C-4'-09212015) Sample 404970 (FUSE-C-6'-09212015) Sample 404971 (FUSE-C-8'-09212015) Sample 404972 (FUSE-C-10'-09212015) Sample 404973 (FUSE-D-2'-09212015) Sample 404973 (FUSE-D-2'-09212015) Sample 404975 (FUSE-D-2'-09212015) Sample 404976 (FUSE-E-4'-09212015) Sample 404977 (FUSE-B-4'-09212015) Sample 404977 (FUSE-B-2'-09212015) Sample 404977 (FUSE-B-3'-09212015) Sample 404977 (FUSE-B-3'-09212015) Sample 404976 (FUSE-B-3'-09212015) Sample 404976 (FUSE-B-3'-09212015) Sample 404977 (FUSE-B-3'-09212015) Method Blanks QC Batch 125089 - Method Blank (1) QC Batch 125132 - Method Blank (1) QC Batch 125365 - Method Blank (1) QC Batch 125365 - Method Blank (1) QC Batch 125365 - Method Blank (1) QC Batch 125085 - Duplicate (1) QC Batch 125095 - Duplicate (1) QC Batch 125096 - Duplicate (1)	Case Narrative				
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QC Batch 125132 - LCS (1) QC Batch 125365 - LCS (1) QC Batch 125366 - LCS (1) Matrix Spikes QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125366 - MS (1) QC Batch 125366 - MS (1) QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	QC Batch 125089 - LCS (1)		 	 	
QC Batch 125365 - LCS (1) QC Batch 125366 - LCS (1) Matrix Spikes QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125369 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	QC Batch 125111 - LCS (1)		 	 	
QC Batch 125365 - LCS (1) QC Batch 125366 - LCS (1) Matrix Spikes QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125369 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	QC Batch 125132 - LCS (1)		 	 	
QC Batch 125366 - LCS (1) Matrix Spikes QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	-				
QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	•				
QC Batch 125089 - MS (1) QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	M-4 C				
QC Batch 125111 - MS (1) QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	-				
QC Batch 125132 - MS (1) QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	•		 	 	
QC Batch 125365 - MS (1) QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	•				
QC Batch 125366 - MS (1) Calibration Standards QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	•				
Calibration Standards QC Batch 125089 - CCV (1)	•				
QC Batch 125089 - CCV (1) QC Batch 125089 - CCV (2) QC Batch 125111 - CCV (1) QC Batch 125111 - CCV (2)	QC Batch 125366 - MS (1)		 	 	
QC Batch 125089 - CCV (1)	Calibration Standards				
QC Batch 125089 - CCV (2)			 	 	
QC Batch 125111 - CCV (1)	•				
QC Batch 125111 - CCV (2)	-				
	-				
	-		 	 	

QC Batch 125132 - CCV (1)	 	42
QC Batch 125132 - CCV (2)	 	42
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Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-09-22 and assigned to work order 15092227. Samples for work order 15092227 were received intact at a temperature of 0.4 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	105811	2015-09-24 at 07:10	125111	2015-09-24 at 13:36
Chloride (IC)	E 300.0	106048	2015-10-05 at 11:30	125365	2015-10-05 at $16:04$
Chloride (IC)	E 300.0	106049	2015-10-05 at 11:30	125366	2015-10-05 at $16:04$
Moisture Content	ASTM D 2216-05	105818	2015-09-23 at 09:20	125095	2015-09-24 at $08:30$
Moisture Content	ASTM D 2216-05	105819	2015-09-23 at 09:20	125096	2015-09-24 at $08:30$
TPH DRO	S 8015 D	105814	2015-09-23 at $15:00$	125089	2015-09-24 at 07:53
TPH GRO	S 8015 D	105811	2015-09-24 at 07:10	125132	2015-09-25 at $09:56$

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 15092227 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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Short Fuse Fed #1

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: Prep Method: S 8021BS 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQL MDL \mathbf{C} Result Parameter F Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{mg/Kg}}$ Benzene < 0.00553 < 0.0207< 0.00553 0.005530.02 0.00533U 5 Toluene < 0.00669< 0.0207< 0.00669 mg/Kg1 0.006690.02 0.00645U 5 Ethylbenzene mg/Kg 0.01200.020.0116< 0.0120< 0.0207< 0.01201 U 5 Xylene < 0.00906< 0.0207< 0.00906 mg/Kg 1 0.009060.020.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQLMDL Parameter F \mathbf{C} Result Result Result SDL Units Dilution (Unadjusted) (Unadjusted) Chloride < 25.916.2 < 4.86mg/Kg 4.8625 3,4,6 1 4.69

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Midland

Moisture Content Analytical Method: Prep Method: Analysis: ASTM D 2216-05 N/AQC Batch: 125095 Date Analyzed: 2015 - 09 - 24Analyzed By: AM Prep Batch: Sample Preparation: Prepared By: 105818 2015-09-23 AM

RLC Parameter Result Units Dilution RLMoisture 3.55 % 0 1

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Short Fuse Fed #1 Lea Co, NM

25.0

119

48.9 - 172

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

SDL MQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\text{DRO}}$ < 5.41<51.8 < 5.41 mg/Kg 5.41 50 5.22 1,2,3,4 Spike Percent Recovery F \mathbf{C} Surrogate Result Units Dilution Amount Recovery Limits

1

mg/Kg

29.7

Sample: 404963 - FUSE-B-2'-09212015

J

3

Laboratory: Midland

n-Tricosane

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQLMDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.40 < 4.15< 2.40 mg/Kg 1 2.40 4 2.32 Qs, U

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.80	mg/Kg	1	2.00	90	70 - 130

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQL MDL Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) 0.00533Benzene < 0.00578< 0.0217 < 0.00578mg/Kg 0.00578 0.02 5 1 Toluene < 0.00700< 0.0217< 0.00700 mg/Kg 1 0.007000.020.00645Ethylbenzene U < 0.0126 < 0.0217< 0.0126 mg/Kg1 0.01260.02 0.0116

 $continued \dots$

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Short Fuse Fed #1 Lea Co, NM

 $sample\ 404964\ continued\ \dots$

			SDL]	MQL	Method					
			Based	Ε	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	R	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Xylene	U	5	< 0.00948	< 0.	.0217	< 0.00948	mg/Kg	1	0.00948	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT	('				2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobe	enzene	(4-I	BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 125365

Prep Batch: 106048

Analytical Method: E 300.0

Date Analyzed: 2015-10-05

Sample Preparation: Prep Method: N/A

Analyzed By: RL

Prepared By: RL

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	67.6	67.6	< 5.09	mg/Kg	1	5.09	25	4.69

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Lubbock

TPH DRO Analysis: Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJSample Preparation: 2015-09-23 Prep Batch: 105814 Prepared By: HJ

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	< 5.66	< 54.2	< 5.66	mg/Kg	1	5.66	50	5.22

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Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	32.3	mg/Kg	1	25.0	129	48.9 - 172

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Blank MQLMDL Based Based F \mathbf{C} Result Result Result Units Dilution SDLParameter (Unadjusted) (Unadjusted) GRO < 2.52< 4.34 < 2.52mg/Kg 2.52 2.32 U 1 4

						$_{ m Spike}$	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland

Analytical Method: Prep Method: S 5035 Analysis: BTEX S 8021B QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod MQLBased Based Blank MDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) mg/Kg Benzene < 0.00616< 0.0231 < 0.00616 0.00616 0.02 0.00533 1 5 < 0.00746Toluene mg/Kg0.007460.02 0.00645< 0.00746< 0.0231 1 U Ethylbenzene < 0.0134< 0.0231 < 0.0134mg/Kg 1 0.01340.020.0116 Xylene < 0.0101< 0.0231 < 0.0101mg/Kg 1 0.0101 0.02 0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.13	mg/Kg	1	2.00	106	70 - 130

Sample: 404965 - FUSE-B-6'-09212015

Lubbock Laboratory:

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A Report Date: October 6, 2015 Work Order: 15092227 Page Number: 10 of 46 Lea Co, NM

Short Fuse Fed #1

2015-10-05 QC Batch: RL125365 Date Analyzed: Analyzed By: Prep Batch: 106048 Sample Preparation: Prepared By: RL

SDLMethod MQL

Based Based Blank MQLMDLParameter F С Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 95.6 95.6 < 5.425.42 25 4.69 mg/Kg 1 3,4,6

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland

Prep Method: Analysis: Moisture Content Analytical Method: ASTM D 2216-05 N/AQC Batch: Date Analyzed: AM125095 2015-09-24 Analyzed By: Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

RL \mathbf{F} \mathbf{C} Result Units Dilution RLParameter Moisture 13.5% 1 0

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: Prepared By: 2015-09-23 HJ

SDL MQLMethod Based Based Blank MQLMDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) 5.22 $\overline{\mathrm{DRO}}$ < 57.8< 6.03 < 6.03mg/Kg 6.03 50 1,2,3,4

Spike Percent Recovery F \mathbf{C} Surrogate Result Units Dilution Amount Limits Recovery n-Tricosane 32.7 mg/Kg 1 25.0131 48.9 - 172 J 3

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24Prepared By: AK

SDLMQL Method Based Based Blank MQL MDLF С Result Result Result Units SDL Parameter Dilution (Unadjusted) (Unadjusted) GRO < 2.68< 4.62< 2.68mg/Kg 2.68 4 2.32 5

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Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland

Analysis: BTEXAnalytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111Date Analyzed: Analyzed By: 2015 - 09 - 24AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00641	< 0.0240	< 0.00641	mg/Kg	1	0.00641	0.02	0.00533
Toluene	U	5	< 0.00775	< 0.0240	< 0.00775	mg/Kg	1	0.00775	0.02	0.00645
Ethylbenzene	U	5	< 0.0139	< 0.0240	< 0.0139	mg/Kg	1	0.0139	0.02	0.0116
Xylene	U	5	< 0.0105	< 0.0240	< 0.0105	mg/Kg	1	0.0105	0.02	0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Lubbock

Analysis: Analytical Method: Chloride (IC) E 300.0 Prep Method: N/AQC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	145	145	< 5.64	mg/Kg	1	5.64	25	4.69

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125095 Date Analyzed: 2015 - 09 - 24Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

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Short Fuse Fed #1

N/A

HJ

HJ

			RL			
Parameter	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	RL
Moisture		5	16.8	%	1	0

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By:

SDL MQLMethod Blank MQLMDL Based Based F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ < 6.27<60.1 < 6.27mg/Kg 6.27 50 5.22 TT 1,2,3,4

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	33.8	mg/Kg	1	25.0	135	48.9 - 172

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015 - 09 - 25Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By:

SDLMQL Method Based Based Blank MQLMDL Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) 2.79 GRO U < 2.79< 4.81 < 2.79mg/Kg 1 4 2.32 5

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.70	mg/Kg	1	2.00	85	70 - 130

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland

BTEX Analytical Method: S 8021BPrep Method: S 5035 Analysis: QC Batch: 125111Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

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Short Fuse Fed #1

			SDL	I	MQL	Method					
			Based	Е	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	R	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00598	<0.	0224	< 0.00598	mg/Kg	1	0.00598	0.02	0.00533
Toluene	U	5	< 0.00723	< 0.	0224	< 0.00723	mg/Kg	1	0.00723	0.02	0.00645
Ethylbenzene	U	5	< 0.0130	< 0.	0224	< 0.0130	mg/Kg	1	0.0130	0.02	0.0116
Xylene	U	5	< 0.00980	<0.	0224	< 0.00980	mg/Kg	1	0.00980	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)						2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)						2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Lubbock

Chloride (IC) Analysis: Analytical Method: Prep Method: N/AE 300.0QC Batch: 125365Date Analyzed: 2015 - 10 - 05Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	63.2	63.2	< 5.26	mg/Kg	1	5.26	25	4.69

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

			RL			
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dilution	RL
Moisture		5	10.8	%	1	0

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: S 8015 D N/AQC Batch: Date Analyzed: 125089 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

 $continued \dots$

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Short Fuse Fed #1 Lea Co, NM

sample	101967	continued		
Sumpic	auauu	COTTUTUACA		

Parameter	F	\mathbf{C}	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	$ooknote{MQL}$ (Unadjusted)	MDL (Unadjusted)
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	< 5.85	< 56.0	< 5.85	mg/Kg	1	5.85	50	5.22
							\mathbf{S}	pike	Percent	Recovery
Surrogate		\mathbf{F}	\mathbf{C}	Result	Units	Diluti	ion An	nount	Recovery	Limits
n-Tricosane		J	3	33.0	mg/Kg	1	2	25.0	132	48.9 - 172

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland

S 8015 D Analysis: TPH GRO Analytical Method: Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQL MDL F \mathbf{C} Result Result Result Units Dilution SDLParameter (Unadjusted) (Unadjusted) GRO < 2.60 < 4.48< 2.60 mg/Kg 1 2.60 4 2.32 U

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.72	mg/Kg	1	2.00	86	70 - 130

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015 - 09 - 24Prepared By: AK

SDL MQL Method Based Based Blank MQLMDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) Benzene < 0.00555< 0.0208< 0.00555mg/Kg 1 0.00555 0.02 0.00533U Toluene < 0.00671< 0.0208 < 0.00671mg/Kg1 0.00671 0.02 0.00645U 5 Ethylbenzene 0.0116 < 0.0121< 0.0208 < 0.0121mg/Kg 1 0.0121 0.02 U Xylene 0.00910 0.02 0.00874< 0.00910< 0.0208< 0.00910 mg/Kg 1

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 15 of 46

Short Fuse Fed #1

Lea Co, NM

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL106048 Sample Preparation: Prep Batch: Prepared By: RL

SDLMQLMethod MQLMDLBased Based Blank Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 189 189 < 4.88mg/Kg 1 4.88 25 4.69 3,4,6

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: Prep Method: N/AASTM D 2216-05 QC Batch: 125095Date Analyzed: 2015 - 09 - 24Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015 - 09 - 23Prepared By: AM

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJSample Preparation: Prep Batch: Prepared By: 105814 2015-09-23 HJ

Method SDL MQLMQL MDLBased Based Blank Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ <52.0 5.43 50 П 1,2,3,4 < 5.43< 5.43mg/Kg 1 5.22

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	35.5	mg/Kg	1	25.0	142	48.9 - 172

Sample: 404968 - FUSE-C-2'-09212015

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Short Fuse Fed #1 Lea Co, NM

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDL MQL Method Based Based Blank

MQLMDLF \mathbf{C} Result SDLParameter Result Result Units Dilution (Unadjusted) (Unadjusted) \overline{GRO} < 2.41< 4.16< 2.41 mg/Kg 2.41 4 2.32 U 5

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.70	mg/Kg	1	2.00	85	70 - 130

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland

BTEXAnalysis: Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00648	< 0.0243	< 0.00648	mg/Kg	1	0.00648	0.02	0.00533
Toluene	U	5	< 0.00785	< 0.0243	< 0.00785	mg/Kg	1	0.00785	0.02	0.00645
Ethylbenzene	U	5	< 0.0141	< 0.0243	< 0.0141	mg/Kg	1	0.0141	0.02	0.0116
Xvlene	U	5	< 0.0106	< 0.0243	< 0.0106	mg/Kg	1	0.0106	0.02	0.00874

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			1.99	mg/Kg	1	2.00	100	70 - 130

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0Prep Method: N/AQC Batch: 125365 Date Analyzed: 2015 - 10 - 05Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	482	482	<11.4	mg/Kg	2	11.4	25	4.69

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Short Fuse Fed #1 Lea Co, NM

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Lubbock

TPH DRO Analytical Method: S 8015 D Prep Method: N/AAnalysis: QC Batch: 125089 Date Analyzed: 2015-09-24 HJAnalyzed By: Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Method SDL MQLBased Based Blank MQLMDL \mathbf{C} Parameter F Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\text{DRO}}$ < 6.35<60.8 < 6.35 mg/Kg 6.35 50 5.22 1 U 1,2,3,4

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	30.8	mg/Kg	1	25.0	123	48.9 - 172

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland

Analytical Method: Prep Method: Analysis: TPH GRO S 8015 D S 5035 QC Batch: 125132 Analyzed By: Date Analyzed: 2015-09-25 AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Blank MQL MDLBased Based Parameter F С Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.82< 4.87< 2.82mg/Kg 1 2.82 4 2.32

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.69	mg/Kg	1	2.00	84	70 - 130

Sample: 404970 - FUSE-C-6'-09212015

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Short Fuse Fed #1 Lea Co, NM

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AKPrep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00566	< 0.0212	< 0.00566	mg/Kg	1	0.00566	0.02	0.00533
Toluene	U	5	< 0.00685	< 0.0212	< 0.00685	mg/Kg	1	0.00685	0.02	0.00645
Ethylbenzene	U	5	< 0.0123	< 0.0212	< 0.0123	mg/Kg	1	0.0123	0.02	0.0116
Xylene	U	5	< 0.00929	< 0.0212	< 0.00929	mg/Kg	1	0.00929	0.02	0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.96	mg/Kg	1	2.00	98	70 - 130

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) 234 234 25 Chloride < 4.98mg/Kg 4.98 4.69 3,4,6 1

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Midland

Analytical Method: Analysis: Moisture Content ASTM D 2216-05 Prep Method: N/AQC Batch: 125095 Date Analyzed: Analyzed By: AM2015-09-24 Prep Batch: 105818 Sample Preparation: 2015 - 09 - 23Prepared By: AM

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Work Order: 15092227 Report Date: October 6, 2015 Page Number: 19 of 46 Lea Co, NM

Short Fuse Fed #1

F	C 1,2,3,4	Result <5.55	Result <53.1	Result <5.55	Units mg/Kg	Dilution 1	SDL 5.55	(Unadjusted) 50	(Unadjusted) 5.22
	F	\mathbf{C}	Result	Units	Diluti			Percent Recovery	Recovery Limits
		U 1,2,3,4	U 1,2,3,4 <5.55	F C Result Result U 1,2,3,4 <5.55 <53.1	F C Result Result Result Result Result U 1,2,3,4 <5.55	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	F C Result Result Result Result Vnits Units Dilution SDL Dilution SDL Dilution U 1,2,3,4 <5.55	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method Based Based Blank MQL MDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.46< 4.25< 2.46mg/Kg 1 2.46 4 2.32

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.84	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.67	mg/Kg	1	2.00	84	70 - 130

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S 8021BPrep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method Based Based Blank MQLMDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Benzene < 0.00601 < 0.0225 < 0.00601 mg/Kg 0.00601 0.02 0.005331 U 5 Toluene < 0.00727< 0.0225< 0.00727mg/Kg0.007270.020.006451 U 5 Ethylbenzene mg/Kg0.02 0.0116< 0.0131< 0.0225< 0.01311 0.0131U Xylene mg/Kg0.00874< 0.00985< 0.0225< 0.009851 0.009850.02

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

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Short Fuse Fed #1 Lea Co, NM

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Lubbock

Chloride (IC) Analysis: Analytical Method: E 300.0 Prep Method: N/A QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride $\overline{524}$ 2 25 **524** <10.6 mg/Kg 10.6 4.69 3,4,6

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

SDLMQL Method MDLBased Based Blank MQL Parameter F \mathbf{C} Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) \overline{DRO} < 5.88< 56.4< 5.88mg/Kg 5.88 50 5.22 1,2,3,4 Spike Percent Recovery F \mathbf{C} Units Dilution Amount Surrogate Result Recovery Limits

1

25.0

123

48.9 - 172

mg/Kg

30.8

3

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland

n-Tricosane

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prepared By: Prep Batch: 105811 Sample Preparation: 2015-09-24 AK

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Short Fuse Fed #1 Lea Co, NM

Parameter	F	С	SDL Based Result		QL sed ult	Method Blank Result	Units	Dilution	SDL	$egin{aligned} ext{MQL} \ ext{(Unadjusted)} \end{aligned}$	MDL (Unadjusted)
GRO	U	5	< 2.62	<4	.51	< 2.62	mg/Kg	1	2.62	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spik Amou	_	Recovery Limits
Trifluorotoluene	e (TFT	.)		J		1.92	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorob	enzene	(4-B	SFB)	Л		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404972 - FUSE-C-10'-09212015

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00607	< 0.0228	< 0.00607	mg/Kg	1	0.00607	0.02	0.00533
Toluene	U	5	< 0.00735	< 0.0228	< 0.00735	mg/Kg	1	0.00735	0.02	0.00645
Ethylbenzene	U	5	< 0.0132	< 0.0228	< 0.0132	mg/Kg	1	0.0132	0.02	0.0116
Xylene	U	5	< 0.00995	< 0.0228	< 0.00995	mg/Kg	1	0.00995	0.02	0.00874

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 125365 Date Analyzed: 2015 - 10 - 05Analyzed By: RLPrep Batch: 106048 Sample Preparation: Prepared By: RL

SDLMQLMethod MQL MDL Based Based Blank F \mathbf{C} Result ${\bf Result}$ SDLParameter Result Units Dilution (Unadjusted) (Unadjusted) 26.7 Chloride 651 651 < 26.7mg/Kg 5 25 4.69 3,4,6

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Midland

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 22 of 46

Short Fuse Fed #1

Lea Co, NM

Analytical Method: Prep Method: N/A Analysis: Moisture Content ASTM D 2216-05 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Lubbock

S 8015 D Analysis: TPH DRO Analytical Method: Prep Method: N/A QC Batch: 125089 2015-09-24 Date Analyzed: Analyzed By: HJ2015-09-23 Prep Batch: 105814 Sample Preparation: Prepared By: HJ

SDL MQLMethod Based Blank MQLMDLBased \mathbf{C} Parameter F Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ < 5.94< 56.9 < 5.94mg/Kg 1 5.94 50 5.22 1,2,3,4

Spike Percent Recovery \mathbf{F} \mathbf{C} Surrogate Result Units Dilution Amount Recovery Limits n-Tricosane 36.0 mg/Kg 1 25.0 144 48.9 - 172 3

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod MQL MDL Based Based Blank Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.64< 2.642.64 2.32 < 4.56mg/Kg 1 4 U

Spike Percent Recovery Dilution \mathbf{C} Units Amount Recovery Limits Surrogate Result Trifluorotoluene (TFT) 1.94 mg/Kg 2.00 97 70 - 130 1 4-Bromofluorobenzene (4-BFB) 1.62 mg/Kg1 2.00 81 70 - 130 J

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 23 of 46

Short Fuse Fed #1 Lea Co, NM

QC Batch:	125111	Date Analyzed:	2015-09-24	Analyzed By:	AK
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	ΑK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00542	< 0.0203	< 0.00542	mg/Kg	1	0.00542	0.02	0.00533
Toluene	U	5	< 0.00656	< 0.0203	< 0.00656	mg/Kg	1	0.00656	0.02	0.00645
Ethylbenzene	U	5	< 0.0118	< 0.0203	< 0.0118	mg/Kg	1	0.0118	0.02	0.0116
Xylene	U	5	< 0.00889	< 0.0203	< 0.00889	mg/Kg	1	0.00889	0.02	0.00874

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.97	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Lubbock

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	22.9	<25.4	< 4.77	mg/Kg	1	4.77	25	4.69

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

			RL			
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dilution	RL
Moisture		5	1.69	%	1	0

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

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Short Fuse Fed #1

			SDL Based	$\begin{array}{c} \mathrm{MQL} \\ \mathrm{Based} \end{array}$	Method Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	< 5.31	< 50.8	< 5.31	mg/Kg	1	5.31	50	5.22
Surrogate		F	C	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	32.0	mg/Kg	1	6	25.0	128	48.9 - 172

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method Based Based Blank MQL MDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.36 < 4.07< 2.36mg/Kg 1 2.36 4 2.32

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.80	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S 8021BPrep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: Prepared By: 2015-09-24 AK

SDLMQL Method Based Based Blank MQLMDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Benzene < 0.00538 < 0.0202 < 0.00538 mg/Kg 0.00538 0.02 0.005331 U 5 Toluene < 0.00652< 0.0202< 0.00652mg/Kg0.006520.020.006451 U Ethylbenzene mg/Kg0.02 0.0116< 0.0117< 0.0202< 0.01171 0.0117U Xylene mg/Kg0.00874< 0.00883< 0.0202< 0.008831 0.008830.02

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

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Short Fuse Fed #1 Lea Co, NM

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Lubbock

Chloride (IC) Analysis: Analytical Method: E 300.0 Prep Method: N/A QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106049 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) 7.24< 25.2Chloride < 4.744.74 25 mg/Kg 4.69 3,4,6

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

SDLMQL Method MDLBased Based Blank MQL Parameter F \mathbf{C} Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) \overline{DRO} < 5.27< 50.5< 5.27mg/Kg 5.27 50 5.22 1,2,3,4 Spike Percent Recovery

F \mathbf{C} Units Dilution Amount Surrogate Result Recovery Limits n-Tricosane 33.0 mg/Kg 25.0 132 48.9 - 172 1 3

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prepared By: Prep Batch: 105811 Sample Preparation: 2015-09-24 AK

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Short Fuse Fed #1 Lea Co, NM

Parameter	${ m F}$	С	SDL Based Result	Mo Bas Res		Method Blank Result	Units	Dilution	SDL	$egin{aligned} ext{MQL} \ ext{(Unadjusted)} \end{aligned}$	MDL (Unadjusted)
GRO	U	5	< 2.34	<4	.04	< 2.34	mg/Kg	1	2.34	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spik Amou	_	Recovery Limits
Trifluorotoluene	e (TFT	.)		J		1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		J		1.74	mg/Kg	1	2.00	87	70 - 130		

Sample: 404975 - FUSE-E-2'-09212015

La	bor	atory:	Midland
	1		DODA

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00559	< 0.0210	< 0.00559	mg/Kg	1	0.00559	0.02	0.00533
Toluene	U	5	< 0.00677	< 0.0210	< 0.00677	mg/Kg	1	0.00677	0.02	0.00645
Ethylbenzene	U	5	< 0.0122	< 0.0210	< 0.0122	mg/Kg	1	0.0122	0.02	0.0116
Xylene	U	5	< 0.00917	< 0.0210	< 0.00917	mg/Kg	1	0.00917	0.02	0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Lubbock

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	399	399	< 9.84	mg/Kg	2	9.84	25	4.69

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Midland

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Short Fuse Fed #1

Lea Co, NM

Analytical Method: Prep Method: N/A Analysis: Moisture Content ASTM D 2216-05 QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Lubbock

S 8015 D Analysis: TPH DRO Analytical Method: Prep Method: N/A QC Batch: 125089 2015-09-24 Date Analyzed: Analyzed By: HJ2015-09-23 Prep Batch: 105814 Sample Preparation: Prepared By: HJ

SDL MQLMethod Based Blank MQLMDLBased F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ 12.4 <52.5 < 5.48mg/Kg 1 5.48 50 5.22 1,2,3,4

Spike Percent Recovery F \mathbf{C} Surrogate Result Units Dilution Amount Recovery Limits n-Tricosane 34.1 mg/Kg 1 25.0 136 48.9 - 172 3

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method MQL MDL Based Based Blank Parameter \mathbf{F} \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.44< 4.20< 2.442.44 2.32 mg/Kg 1 4 U

Spike Percent Recovery Dilution F \mathbf{C} Units Amount Recovery Limits Surrogate Result Trifluorotoluene (TFT) 1.86 mg/Kg 2.00 93 70 - 130 1 4-Bromofluorobenzene (4-BFB) 1.57 mg/Kg1 2.00 78 70 - 130 J

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035

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Short Fuse Fed #1 Lea Co, NM

QC Batch:	125111	Date Analyzed:	2015-09-24	Analyzed By:	AK
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00559	< 0.0210	< 0.00559	mg/Kg	1	0.00559	0.02	0.00533
Toluene	U	5	< 0.00676	< 0.0210	< 0.00676	mg/Kg	1	0.00676	0.02	0.00645
Ethylbenzene	U	5	< 0.0122	< 0.0210	< 0.0122	mg/Kg	1	0.0122	0.02	0.0116
Xylene	U	5	< 0.00916	< 0.0210	< 0.00916	mg/Kg	1	0.00916	0.02	0.00874

						$_{ m Spike}$	Percent	Recovery	
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130	
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130	

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Lubbock

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride		3,4,6	125	125	< 4.92	mg/Kg	1	4.92	25	4.69

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

			RL			
Parameter	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	RL
Moisture		5	4.62	%	1	0

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

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Short Fuse Fed #1

			SDL Based	ootnotesize MQL Based	Method Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	28.5	< 52.4	< 5.47	mg/Kg	1	5.47	50	5.22
							S	pike	Percent	Recovery
Surrogate		\mathbf{F}	\mathbf{C}	Result	Units	Diluti	ion An	nount	Recovery	Limits
n-Tricosane		J	3	36.6	mg/Kg	1	2	25.0	146	48.9 - 172

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method Based Based Blank MQL MDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.43< 4.19 < 2.43mg/Kg 1 2.43 4 2.32

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.63	mg/Kg	1	2.00	82	70 - 130

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: Prep Method: S 8021B S 5035 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQL Method Based Based Blank MQLMDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Benzene < 0.00550 < 0.0206 < 0.00550 mg/Kg 0.00550 0.02 0.005331 U 5 Toluene < 0.00665< 0.0206< 0.00665 mg/Kg0.006650.020.006451 U Ethylbenzene mg/Kg0.02 0.0116< 0.0120< 0.0206< 0.01201 0.0120U Xylene 0.00874< 0.00902< 0.0206< 0.00902 mg/Kg 1 0.00902 0.02

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

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Short Fuse Fed #1 Lea Co, NM

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Lubbock

Chloride (IC) Analysis: Analytical Method: E 300.0 Prep Method: N/AQC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106049 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) < 25.8Chloride 4.84 25 13.3 < 4.84mg/Kg 4.69 3,4,6

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

SDLMQL Method MDLBased Based Blank MQL Parameter F \mathbf{C} Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ < 5.38 <51.6 < 5.38 mg/Kg 5.38 50 5.22 1,2,3,4 Spike Percent Recovery

Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	35.6	mg/Kg	1	25.0	142	48.9 - 172

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Sample Preparation: Prepared By: Prep Batch: 105811 2015-09-24 AK

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Short Fuse Fed #1

			SDL	M	JL	Method					
			Based	Bas	sed	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Res	ult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	< 2.39	<4.	.13	< 2.39	mg/Kg	1	2.39	4	2.32
									Spike	Percent	Recovery
Surrogate				\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amoun	t Recovery	Limits
Trifluorotoluene	e (TFT	1)		J		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorob	enzene	(4-B	FB)	J		1.64	mg/Kg	1	2.00	82	70 - 130

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Short Fuse Fed #1

Method Blanks

Method Blank (1)

QC Batch: 125089 Date Analyzed: Analyzed By: HJ 2015-09-24 Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

Parameter		F	י	\mathbf{C}	Result		Units	Reporting Limits
DRO				1,2,3,4	< 5.22	1	ng/Kg	5.22
						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		3	29.6	mg/Kg	1	25.0	118	48.9 - 172

Method Blank (1)

QC Batch: 125111Date Analyzed: 2015-09-24 Analyzed By: AK Prep Batch: 105811 Prepared By: AK QC Preparation: 2015-09-24

					Reporting
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Limits
Benzene		5	< 0.00533	m mg/Kg	0.00533
Toluene		5	< 0.00645	mg/Kg	0.00645
Ethylbenzene		5	< 0.0116	mg/Kg	0.0116
Xylene		5	< 0.00874	$\mathrm{mg/Kg}$	0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.76	mg/Kg	1	2.00	88	70 - 130

Method Blank (1)

QC Batch: 125132Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 QC Preparation: 2015-09-24 Prepared By: AK Reporting

					Reporting
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Limits
GRO		5	< 2.32	mg/Kg	2.32

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Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	$^{\rm C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.65	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.48	mg/Kg	1	2.00	74	70 - 130

Method Blank (1)

QC Batch: 125365Date Analyzed: 2015 - 10 - 05Analyzed By: RL Prep Batch: 106048 QC Preparation: 2015-10-05Prepared By: RL

					Reporting
Parameter	\mathbf{F}	\mathbf{C}	Result	Units	Limits
Chloride		3,4,6	< 4.69	$\mathrm{mg/Kg}$	4.69

Method Blank (1)

QC Batch: 125366Date Analyzed: Analyzed By: RL 2015 - 10 - 05Prep Batch: 106049 Prepared By: RL QC Preparation: 2015-10-05

					Reporting
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Limits
Chloride		3,4,6	< 4.69	mg/Kg	4.69

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Short Fuse Fed #1

Duplicates

Duplicate (1) Duplicated Sample: 404972

QC Batch: Analyzed By: AM 125095Date Analyzed: 2015 - 09 - 24Prep Batch: 105818 QC Preparation: 2015-09-23 Prepared By: AM

			Duplicate	Sample				RPD
Param	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dilution	RPD	Limit
Moisture		5	13.4	12.2	%	1	5	20

Duplicate (1) Duplicated Sample: 404982

QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM Prep Batch: 105819 QC Preparation: 2015-09-23Prepared By: AM

			Duplicate	Sample				RPD
Param	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dilution	RPD	Limit
Moisture		5	12.4	12.4	%	1	0	20

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Short Fuse Fed #1

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1,2,3,4	438	mg/Kg	1	500	< 5.22	88	60.9 - 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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1,2,3,4	459	mg/Kg	1	500	< 5.22	92	60.9 - 130	5	20

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

			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane		3	29.4	33.0	mg/Kg	1	25.0	118	132	48.9 - 172

Laboratory Control Spike (LCS-1)

Date Analyzed: Analyzed By: AK QC Batch: 125111 2015-09-24 Prep Batch: 105811 QC Preparation: 2015-09-24 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	2.11	mg/Kg	1	2.00	< 0.00533	106	70 - 130
Toluene		5	2.10	mg/Kg	1	2.00	< 0.00645	105	70 - 130
Ethylbenzene		5	2.07	mg/Kg	1	2.00	< 0.0116	104	70 - 130
Xylene		5	6.03	mg/Kg	1	6.00	< 0.00874	100	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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	2.06	mg/Kg	1	2.00	< 0.00533	103	70 - 130	2	20
Toluene		5	2.04	mg/Kg	1	2.00	< 0.00645	102	70 - 130	3	20
Ethylbenzene		5	2.00	mg/Kg	1	2.00	< 0.0116	100	70 - 130	3	20
Xylene		5	5.97	mg/Kg	1	6.00	< 0.00874	100	70 - 130	1	20

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Short Fuse Fed #1

			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			2.00	1.99	mg/Kg	1	2.00	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	2.08	mg/Kg	1	2.00	101	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 125132Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 QC Preparation: 2015-09-24 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	19.4	mg/Kg	1	20.0	< 2.32	97	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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		5	20.8	mg/Kg	1	20.0	< 2.32	104	70 - 130	7	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	F	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.92	1.97	mg/Kg	1	2.00	96	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.79	1.78	mg/Kg	1	2.00	90	89	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL Prep Batch: 106048 QC Preparation: 2015-10-05Prepared By: RL

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		3,4,6	274	mg/Kg	1	250	< 4.69	110	90 - 110

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

			LCSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3,4,6	274	mg/Kg	1	250	< 4.69	110	90 - 110	0	20

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 37 of 46

Short Fuse Fed #1 Lea Co, NM

Laboratory Control Spike (LCS-1)

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL Prep Batch: 106049 QC Preparation: 2015-10-05 Prepared By: RL

LCS Spike Matrix Rec. F Rec. Param Result Units Dil. Amount ${\bf Result}$ Limit Chloride 275 mg/Kg 250 < 4.69 110 90 - 110

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3,4,6	275	mg/Kg	1	250	< 4.69	110	90 - 110	0	20

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Short Fuse Fed #1

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 404963

QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1,2,3,4	386	mg/Kg	1	500	< 5.22	77	47.9 - 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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1,2,3,4	406	mg/Kg	1	500	< 5.22	81	47.9 - 130	5	20

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

			MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane		3	31.6	33.1	mg/Kg	1	25	126	132	48.9 - 172

Matrix Spike (MS-1) Spiked Sample: 404963

2015-09-24 Analyzed By: AK QC Batch: 125111 Date Analyzed: Prep Batch: 105811 QC Preparation: 2015-09-24 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.59	mg/Kg	1	2.00	< 0.00533	80	70 - 130
Toluene		5	1.75	mg/Kg	1	2.00	< 0.00645	88	70 - 130
Ethylbenzene		5	1.76	mg/Kg	1	2.00	< 0.0116	88	70 - 130
Xylene		5	5.37	mg/Kg	1	6.00	< 0.00874	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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.62	mg/Kg	1	2.00	< 0.00533	81	70 - 130	2	20
Toluene		5	1.76	mg/Kg	1	2.00	< 0.00645	88	70 - 130	1	20
Ethylbenzene		5	1.85	mg/Kg	1	2.00	< 0.0116	92	70 - 130	5	20
Xylene		5	5.52	mg/Kg	1	6.00	< 0.00874	92	70 - 130	3	20

Work Order: 15092227 Report Date: October 6, 2015 Page Number: 39 of 46 Lea Co, NM

Short Fuse Fed #1

			MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.88	1.99	mg/Kg	1	2	94	100	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	1.98	mg/Kg	1	2	98	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404963

QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105811 QC Preparation: 2015-09-24 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	Qs	5	11.5	mg/Kg	1	20.0	< 2.32	58	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	Qs	5	11.6	mg/Kg	1	20.0	< 2.32	58	70 - 130	1	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{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.82	1.76	mg/Kg	1	2	91	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.73	1.76	mg/Kg	1	2	86	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404972

QC Batch: Date Analyzed: Analyzed By: RL 125365 2015 - 10 - 05Prep Batch: 106048 QC Preparation: 2015-10-05Prepared By: RL

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		3,4,6	846	mg/Kg	5	250	572	110	80 - 120

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

			MSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	Qs	3,4,6	715	mg/Kg	5	250	572	57	80 - 120	17	20

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Short Fuse Fed #1 Lea Co, NM

Matrix Spike (MS-1) Spiked Sample: 404982

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL Prep Batch: 106049 QC Preparation: 2015-10-05 Prepared By: RL

MS Spike Matrix Rec. F Rec. Param \mathbf{C} Result Units Dil. Amount Result Limit Chloride 290 mg/Kg 250 19 108 80 - 120

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

			MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3,4,6	286	mg/Kg	1	250	19	107	80 - 120	1	20

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Short Fuse Fed #1 Lea Co, NM

Calibration Standards

Standard (CCV-1)

QC Batch:	125089	Date Analyzed:	2015-09-24	Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1,2,3,4	mg/Kg	500	430	86	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1,2,3,4	mg/Kg	500	438	88	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	$^{\mathrm{C}}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.106	106	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.105	105	80 - 120	2015-09-24
Ethylbenzene		5	mg/kg	0.100	0.102	102	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.301	100	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.105	105	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.103	103	80 - 120	2015-09-24

 $continued \dots$

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Short Fuse Fed #1 Lea Co, NM

standard continued								
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Ethylbenzene		5	mg/kg	0.100	0.0997	100	80 - 120	2015-09-24
Xylene		5	$\mathrm{mg/kg}$	0.300	0.298	99	80 - 120	2015-09-24

Standard (CCV-3)

QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK

				$\begin{array}{c} { m CCVs} \\ { m True} \end{array}$	$\begin{array}{c} {\rm CCVs} \\ {\rm Found} \end{array}$	$\begin{array}{c} { m CCVs} \\ { m Percent} \end{array}$	Percent Recovery	Date
Param	F	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.102	102	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.0997	100	80 - 120	2015-09-24
Ethylbenzene		5	mg/kg	0.100	0.0972	97	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.286	95	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.936	94	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.841	84	80 - 120	2015-09-25

Standard (CCV-3)

QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 43 of 46

Short Fuse Fed #1 Lea Co, NM

-								
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.820	82	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch:	125365	Date Analyzed:	2015-10-05		Analyzed By:	RL	

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.1	108	90 - 110	2015-10-05

Standard (CCV-2)

	QC Batch:	125365	Date Analyzed:	2015-10-05	Analyzed By:	RL
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				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-1)

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-2)

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 44 of 46 Short Fuse Fed #1 Lea Co, NM

Limits of Detection (LOD)

					$_{ m Spike}$	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Xylene	0.0120	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	10.0	Pass
TPH DRO	S 8015 D	soil	TPH-2	DRO	10.4	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	5.00	Pass

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Short Fuse Fed #1

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E- 10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- Description
- Analyte detected in the corresponding method blank above the method detection
- Analyzed out of hold time Η
- Estimated concentration
- The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- Instrument software did not integrate
- Instrument software misidentified the peak
- Instrument software integrated improperly
- MI5Baseline correction
 - Calibration check outside of laboratory limits.
 - Qr RPD outside of laboratory limits
- Spike recovery outside of laboratory limits. Qs
- Surrogate recovery outside of laboratory limits. Qsr
 - The analyte is not detected above the SDL

Report Date: October 6, 2015 Work Order: 15092227 Page Number: 46 of 46 Short Fuse Fed #1 Lea Co, NM

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

LAB Order ID# Page 6701 Aberdeen Ave, Ste 9 5002 Basin Street, Suite A1 TraceAnalysis, Inc. 200 East Sunset Rd., Suite E BioAquatic Testino Lubbock, Texas 79424 Midland, Texas 79703 El Paso, Texas 79922 2501 Mayes Rd., Ste 100 Tel (806) 794-1296 Tel (432) 689-6301 Tel (915) 585-3443 Carroliton, Texas 75006 email: lab@traceanalysis.com Fax (806) 794-1298 Fax (432) 689-6313 Fax (915) 585-4944 Tel (972) 242-7750 1 (800) 378-1296 Company Name: CH2M HILL Phone #: 972 663 2287 **ANALYSIS REQUEST** ircle or Specify Method No.) Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #: Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M.COM Turn Around Time if different from standard Invoice to: DIRECT BILL EOG RE: ZANE KURTZ Se Hg otal Metals Ag As Ba Cd Cr Pb Se Hg X1005 / DRO / TVHC Project #: Project Name: SHORT FUSE FED #1 8021B / 002 / 8260B / 624 TCLP Metals Ag As Ba Cd Cr Pb Project Location: Sampler LEA COUNTY NEW MEXICO (include state) Signature: Va, Ca, Mg, K, TDS, CONTAINERS **PRESERVATIVE** Volume/Amount MATRIX SAMPLING 3C/MS Semi. Vol. esticides 8081A / METHOD FIELD CODE LAB# SLUDGE CHLORID WATER SOIL NONE HNO₃ H₂SO₄ LAB USE NaOH DATE TIME 건 AIR 빙 ONLY Hold 404 962 40Z 9/2 FUSE-B-2'-09212015 2 1214 FUSE-B-4'-09212015 1218 104965 FUSE-B-6'-09212015 1222 104966 FUSE-B-8'-09212015 1226 404967 FUSE-B-10'-09212015 230 Relinquished by: Company Date: Time: Received by: Company: Date: Time: INST REMARKS: LAB USE OBS O'U ANALYZE FOR MOISTURE CONTENT ONLY **G**SUK Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST Dry Weight Basis Required Intact Y/N OBS COR Headspace Y / N /NA TRRP Report Required Relinquished by: Company: Date: Time: Received by: INST Company: Date: Time: OBS Check If Special Reporting Limits Are Need

COR

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Page 2 of 2

Company Name: CH2M HILL Phone #: 972 663 2287 Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #: Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M Invoice to: DIRECT BILL EOG RE: ZANE KURTZ	se Hg
Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M	
Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M Invoice to: DIRECT BILL EOG RE: ZANE KURTZ	P, Alkalinity
Invoice to: DIRECT BILL EOG RE: ZANE KURTZ	Se Hg -P, Alkalinity
111711	P, Alk
Project #: Project Name: SHORT FUSE FED #1 Project Location: LEA COUNTY NEW MEXICO Sampler Project Name: SHORT FUSE FED #1 Sampler	
Project Name: SHORT FUSE FED #1 Project Location: (include state) LEA COUNTY NEW MEXICO Sampler Signature: Signature: Project Name: SHORT FUSE FED #1 Project N	D D Z E E
MATRIX PRESERVATIVE SAMPLING PRESERVATIVE SIZE PROSENT	Ag As Ba Cd C sis olatiles tes 2260B / 624 Vol. 8270C/6; 608 81A / 608 11 tent C ₃ -N, NO ₂ -N, C, TDS, EC ES E CONTENT
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401976 FUSE-E-4'-09212015	
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1340 1	
Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INSTITE LAB USE Relinquished by: Company: Date: Time: ONLY Relinquished by: Company: Date: Time: ONLY	REMARKS: ANALYZE FOR MOISTURE CONTENT
Company: Date: Time: INSTOBSOIntact Y / NCOROHeadspace Y / N /NA	Dry Weight Basis Required
Received by: Company: Date: Time: Received by: Company: Date: Time: INST OBS°C COR°Cl. ce in Purious	TRRP Report Required 8015 DRO Check If Special Reporting Limits Are Needed (280)
Submittal of samples constitutes agreement to Terms and Conditions ORIGINAL COPY Carrier #	

LAB Order ID # Page 6701 Aberdeen Ave, Ste 9 5002 Basin Street, Suite A1 200 East Sunset Rd., Suite F. BioAquatic Testing TraceAnalysis, Inc. Lubbock, Texas 79424 Midland, Texas 79703 El Paso, Texas 79922 2501 Mayes Rd., Ste 100 Tel (806) 794-1296 Tel (432) 689-6301 Tel (915) 585-3443 Carrollton, Texas 75006 Fax (806) 794-1298 email: lab@traceanalysis.com Fax (432) 689-6313 Fax (915) 585-4944 Tel (972) 242-7750 1 (800) 378-1296 **ANALYSIS REQUEST** Phone #: 972 663 2287 Company Name: CH2M HILL 8 rcle or Specify Method No.) Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #: E-mail: JENNIFER.DUSSOR@CH2M.COM Contact Person: JENNIFER DUSSOR Furn Around Time if different from standard Invoice to: DIRECT BILL EOG RE: ZANE KURTZ Cd Cr Pb Se Hg 418:17 TX1005 / DRO / TVHC Project #: Project Name: SHORT FUSE FED #1 602 / 8260B / 624 8260B / 624 C Project Location: Sampler LEA COUNTY NEW MEXICO MOISTURE CONTENT (include state) Signature: CLP Metals Ag As Ba Pesticides 8081A / 608 Na, Ca, Mg, K, TDS, **PRESERVATIVE** 8021B / 602 / **TCLP Semi Volatiles** CONTAINERS Volume/Amount MATRIX SAMPLING Semi. Vol. PCB's 8082 / 608 METHOD **TCLP Pesticides** CHLORIDES *TCLP* Volatiles Hd GC/MS Vol. FIELD CODE LAB# SLUDGE BOD, TSS, ER H₂SO₄ NONE NaOH GC/MS LAB USE HNO3 DATE WATE SOIL 되 건 AIR SE ONLY 404 963 9/2 40Z FUSE-B-2'-09212015 2 1214 FUSE-B-4'-09212015 1218 FUSE-B-6'-09212015 1222 FUSE-B-8'-09212015 1226 404967 FUSE-B-10'-09212015 1230 Relinquished by: Received by: Company Date: Time: Company: Date: Time: REMARKS: INST LAB USE OBS OTY ANALYZE FOR MOISTURE CONTENT ONLY GUK O Dry Weight Basis Required INST Relinquished by: Company: Date: Time: Date: Received by: Company: Time: OBS COR Headspace Y / N NA TRRP Report Required INST_L Relinguished by: Company: Date: Time: Date: OBS Check If Special Reporting Limits Are New

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TraceAnalysis, Inc.

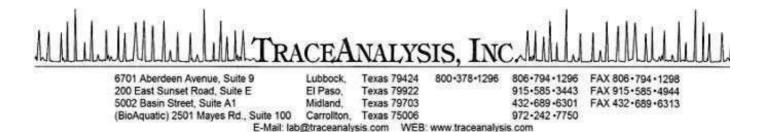
6701 Aberdeen Ave, Ste 9 Lubbock, Texas 79424 Tel (806) 794-1296

5002 Basin Street, Suite A1 Midland, Texas 79703

200 East Sunset Rd., Suite E El Paso, Texas 79922

BioAquatic Testing 2501 Mayes Rd., Ste 100

	email: lab@traceanalysis	.com					Fax (8	06) 79 06) 378	4-129	8					132) 68 132) 68					(915) (915)	585-) 585-							n, Tex (2) 242						
Company Name:	CH2M HILL				Phone #: 972 663 2287					1	E		1	11	ANA	ALY	YSI	s R	EQ	UES	ST		-											
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404973	FUSE-D-2'-09212015				П				T	Τ	П	П	П			1314	П	I	T	П	\Box	T	T	T	П	T	T	T	П	十	#	#		П
104974	FUSE-D-4'-09212015		Π	T	Π			T	T	Π	П		П		T	1318	П	#		П	T	T	T	T	П	T	T	T	П	T	7/	#		
104975	FUSE-E-2'-09212015		П		П				T		П	П	П			1330	П		T	П	7	T	T	T	П	寸	十	T	П	十	\forall	廿		
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jennifer Dussor CH2M Hill 12750 Merit Dr. Ste. 1100 Dallas Tv. 75251

Dallas, Tx, 75251

Report Date: October 6, 2015

Work Order: 15092228

Project Location: Lea Co, NM Project Name: Short Fuse Fed #1

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
404978	FUSE-A-2'-09212015	soil	2015-09-21	11:50	2015-09-22
404979	FUSE-A-4'-09212015	soil	2015-09-21	11:54	2015-09-22
404980	FUSE-A-6'-09212015	soil	2015-09-21	11:58	2015-09-22
404981	FUSE-A-8'-09212015	soil	2015-09-21	12:02	2015-09-22
404982	FUSE-A-10'-09212015	soil	2015-09-21	12:06	2015-09-22

Notes

• Work Order 15092228: Separate report for "A" series Samples

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

 $All \ sample \ results \ are \ reported \ on \ a \ dry \ weight \ basis.$

 $For \ inorganic \ analyses, \ the \ term \ MQL \ should \ actually \ read \ PQL.$

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

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Report Date: October 6, 2015 Work Order: 15092228 Page Number: 4 of 26 Short Fuse Fed #1 Lea Co, NM

Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-09-22 and assigned to work order 15092228. Samples for work order 15092228 were received intact at a temperature of 0.4 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	105841	2015-09-24 at 16:19	125138	2015-09-25 at 11:28
Chloride (IC)	E 300.0	106049	2015-10-05 at $11:30$	125366	2015-10-05 at $16:04$
Moisture Content	ASTM D 2216-05	105819	2015-09-23 at 09:20	125096	2015-09-24 at 08:30
TPH DRO	S 8015 D	105814	2015-09-23 at 15:00	125089	2015-09-24 at $07:53$
TPH GRO	S 8015 D	105841	2015-09-24 at 16:19	125143	2015-09-25 at $13:28$

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 15092228 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.

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 5 of 26 Short Fuse Fed #1 Lea Co, NM

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Midland Analysis: **BTEX** Analytical Method: Prep Method: S 8021B S 5035 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMOL Method Based Based Blank MQL MDL F \mathbf{C} Result Result Result SDL Parameter Units Dilution (Unadjusted) (Unadjusted) Benzene < 0.00566 < 0.0212 < 0.00566 mg/Kg 0.00566 0.02 0.00533Qs,U 5 Toluene < 0.00685< 0.0212< 0.00685mg/Kg 1 0.006850.02 0.00645U 5 Ethylbenzene < 0.0212mg/Kg 1 0.01230.020.0116< 0.0123< 0.01235 Xylene < 0.00928< 0.0212< 0.00928mg/Kg1 0.009280.020.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	70 - 130

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106049 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQLMDL Parameter F \mathbf{C} Result Result Result SDL Units Dilution (Unadjusted) (Unadjusted) Chloride <26.6 16.1 < 4.98mg/Kg 4.98 25 3,4,6 1 4.69

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Midland

Moisture Content Analytical Method: Prep Method: Analysis: ASTM D 2216-05 N/AQC Batch: 125096 Date Analyzed: 2015 - 09 - 24Analyzed By: AM Prep Batch: Sample Preparation: Prepared By: 105819 2015-09-23 AM

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 6 of 26

Short Fuse Fed #1 Lea Co, NM

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

SDL MQL Method Based Based Blank MQL MDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\text{DRO}}$ 41.7<53.1 < 5.545.54 50 5.22 mg/Kg 1,2,3,4

						Spike	$\operatorname{Percent}$	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	37.3	${ m mg/Kg}$	1	25.0	149	48.9 - 172

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQLMDL Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) GRO < 2.46< 4.25< 2.46mg/Kg 1 2.46 4 2.32 $_{
m Qr,Qs,U}$

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.99	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod Based Based Blank MQL MDL Parameter F \mathbf{C} Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) 0.00533Benzene < 0.00604< 0.0227 < 0.00604mg/Kg 0.00604 0.02 5 1 0.02Toluene < 0.00731< 0.0227< 0.00731 mg/Kg 1 0.007310.00645Ethylbenzene 0.06190.0619< 0.0132 mg/Kg1 0.01320.02 0.0116

 $continued \dots$

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 7 of 26

Short Fuse Fed #1 Lea Co, NM

sample 404979 continued ...

			$\begin{array}{c} \mathrm{SDL} \\ \mathrm{Based} \end{array}$		MQL Based	Method Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	R	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Xylene		5	0.317	0	.317	< 0.00991	mg/Kg	1	0.00991	0.02	0.00874
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene	(TFT	1)				1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorob	`	/	BFB)			1.71	mg/Kg	1	2.00	86	70 - 130

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0Prep Method: N/A QC Batch: RL125366Date Analyzed: 2015-10-05 Analyzed By: Prep Batch: 106049 Sample Preparation: Prepared By: RLMothod

			SDL	MQL	Metnoa					
			Based	Based	Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	16.4	<28.3	< 5.32	mg/Kg	1	5.32	25	4.69

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Lubbock

TPH DRO Analysis: Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJSample Preparation: Prep Batch: 105814 2015-09-23 Prepared By: HJ

SDLMQL Method Based Based Blank MQL MDL \mathbf{F} \mathbf{C} Result Units SDLParameter Result Result Dilution (Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ 254254< 5.92mg/Kg 5.92 50 5.22 1 1,2,3,4

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 8 of 26 Lea Co, NM

Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J,Qsr	3	45.2	mg/Kg	1	25.0	181	48.9 - 172

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland

TPH GRO Analysis: Analytical Method: S 8015 D QC Batch: 125143 Date Analyzed: 2015-09-25 Prep Batch: 105841 Sample Preparation: 2015-09-24

Analyzed By: AK Prepared By: AK

Prep Method: S 5035

SDLMQLMethod Blank MQLMDL Based Based F SDL \mathbf{C} Result Result Result Units Parameter Dilution (Unadjusted) (Unadjusted) GRO 13.213.2 < 2.63mg/Kg 2.63 4 2.32 Qr 1

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.86	mg/Kg	1	2.00	93	70 - 130

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland

Analytical Method: Prep Method: Analysis: BTEX S 8021B S 5035 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

SDLMQLMethod MQLBased Based Blank MDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) mg/Kg Benzene < 0.00626 < 0.0235< 0.00626 0.00626 0.02 0.00533 1 5 0.00757Toluene mg/Kg0.02 0.00645< 0.00757< 0.0235 < 0.007571 U Ethylbenzene < 0.0136< 0.0235 < 0.0136 mg/Kg 1 0.01360.020.0116 Xylene < 0.0102 < 0.0235 < 0.0102 mg/Kg 1 0.01020.02 0.00874U

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.43	mg/Kg	1	2.00	72	70 - 130

Sample: 404980 - FUSE-A-6'-09212015

Lubbock Laboratory:

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A Report Date: October 6, 2015 Work Order: 15092228 Page Number: 9 of 26

Short Fuse Fed #1

Lea Co, NM

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL

Prep Batch: 106049 Sample Preparation: Prepared By: RL

SDL MQL Method

Based Based Blank MQLMDL Parameter F С Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) Chloride 26.9 <29.3 < 5.505.50 25 4.69 mg/Kg 1 J 3,4,6

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland

Prep Method: Analysis: Moisture Content Analytical Method: ASTM D 2216-05 N/AQC Batch: 125096 Date Analyzed: AM2015-09-24 Analyzed By: Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/AQC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: Prepared By: 2015-09-23 HJ

SDL MQLMethod Based Based Blank MQLMDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ < 58.7< 6.13 5.22 < 6.13mg/Kg 6.13 50 U 1,2,3,4

Spike Percent Recovery F \mathbf{C} Surrogate Result Units Dilution Amount Limits Recovery n-Tricosane 32.0 mg/Kg 1 25.0128 48.9 - 172 J 3

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105841 Sample Preparation: 2015-09-24Prepared By: AK

SDLMQL Method Based Based Blank MQLMDLF С Result Result Result SDLParameter Units Dilution (Unadjusted) (Unadjusted) GRO < 2.72< 4.69< 2.72mg/Kg 2.72 4 2.32 $_{\mathrm{Qr,U}}$ 5

Work Order: 15092228 Report Date: October 6, 2015 Page Number: 10 of 26 Lea Co, NM

Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	$^{\rm C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland

Analysis: BTEXAnalytical Method: S 8021B Prep Method: S 5035 QC Batch: 125138Date Analyzed: Analyzed By: 2015 - 09 - 25AKPrep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00610	< 0.0229	< 0.00610	mg/Kg	1	0.00610	0.02	0.00533
Toluene	U	5	< 0.00739	< 0.0229	< 0.00739	mg/Kg	1	0.00739	0.02	0.00645
Ethylbenzene	U	5	< 0.0133	< 0.0229	< 0.0133	mg/Kg	1	0.0133	0.02	0.0116
Xylene	U	5	< 0.0100	< 0.0229	< 0.0100	mg/Kg	1	0.0100	0.02	0.00874

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.46	mg/Kg	1	2.00	73	70 - 130

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RLPrep Batch: 106049 Sample Preparation: Prepared By: RL

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	13.4	< 28.6	< 5.37	mg/Kg	1	5.37	25	4.69

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125096 Date Analyzed: 2015 - 09 - 24Analyzed By: AMPrep Batch: 105819 Sample Preparation: Prepared By: 2015-09-23 AM

Work Order: 15092228 Report Date: October 6, 2015 Page Number: 11 of 26 Lea Co, NM

Short Fuse Fed #1

Prep Method:

Analyzed By:

Prepared By:

N/A

HJ

HJ

			RL			
Parameter	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	RL
Moisture		5	12.7	%	1	0

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: S 8015 D QC Batch: 125089 Date Analyzed: 2015-09-24 Prep Batch: 105814 Sample Preparation: 2015-09-23

SDL MQL Method Based Based Blank MQLMDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) $\overline{\mathrm{DRO}}$ 28.4 <57.3 < 5.98mg/Kg 5.98 50 5.22 1,2,3,4

						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	J	3	35.2	mg/Kg	1	25.0	141	48.9 - 172

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125143 Date Analyzed: 2015 - 09 - 25Analyzed By: AKPrep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By:

SDLMQL Method Based Based Blank MQLMDL Parameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) 2.66 GRO < 2.66 < 4.58< 2.66mg/Kg 1 4 2.32 Qr,U5

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Midland

BTEX Analytical Method: S 8021BPrep Method: S 5035 Analysis: QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AKPrep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Work Order: 15092228 Report Date: October 6, 2015 Page Number: 12 of 26 Lea Co, NM

Short Fuse Fed #1

			SDL		MQL	Method				MOI	MDI
			Based	В	ased	Blank				MQL	MDL
Parameter	\mathbf{F}	\mathbf{C}	Result	\mathbf{R}	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00608	< 0.	0228	< 0.00608	mg/Kg	1	0.00608	0.02	0.00533
Toluene	U	5	< 0.00736	<0.	0228	< 0.00736	mg/Kg	1	0.00736	0.02	0.00645
Ethylbenzene	U	5	< 0.0132	< 0.	0228	< 0.0132	mg/Kg	1	0.0132	0.02	0.0116
Xylene	U	5	< 0.00998	< 0.	0228	< 0.00998	mg/Kg	1	0.00998	0.02	0.00874
									G 11	D .	D
									$_{ m Spike}$	Percent	Recovery
Surrogate				\mathbf{F}	$^{\rm C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)						1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)						1.44	mg/Kg	1	2.00	72	70 - 130

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: Prep Method: N/AE 300.0 QC Batch: 125366Date Analyzed: 2015 - 10 - 05Analyzed By: RLPrep Batch: 106049 Sample Preparation: Prepared By: RL3 F .1

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	21.7	<28.5	< 5.35	mg/Kg	1	5.35	25	4.69

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AMPrep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

RL \mathbf{C} ${\bf Parameter}$ \mathbf{F} Result Dilution RLUnits 12.4 % Moisture 0

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: S 8015 D N/AQC Batch: Date Analyzed: 125089 2015-09-24 Analyzed By: HJPrep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

 $continued \dots$

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Short Fuse Fed #1 Lea Co, NM

sample	101982	continued	
Sumpic	404302	CORREGIE	

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL		MDL (Unadjusted)
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	< 5.96	< 57.1	< 5.96	mg/Kg	1	5.96	50	5.22
							S_1	pike	Percent	Recovery
Surrogate		\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Diluti	on An	nount	Recovery	Limits
n-Tricosane		J	3	34.5	mg/Kg	1	2	5.0	138	48.9 - 172

Sample: 404982 - ${\tt FUSE\text{-}A\text{-}10'\text{-}09212015}$

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	F	\mathbf{C}	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	Qr,U	5	< 2.65	< 4.57	< 2.65	mg/Kg	1	2.65	4	2.32

						$_{ m Spike}$	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	J		1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.62	mg/Kg	1	2.00	81	70 - 130

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Short Fuse Fed #1

Method Blanks

Method Blank (1)

QC Batch: 125089 Date Analyzed: Analyzed By: HJ 2015-09-24 Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

Parameter		F	י	\mathbf{C}	Result		Units	Reporting Limits
DRO				1,2,3,4	< 5.22	1	ng/Kg	5.22
						Spike	Percent	Recovery
Surrogate	F	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		3	29.6	mg/Kg	1	25.0	118	48.9 - 172

Method Blank (1)

QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 Prepared By: AK QC Preparation: 2015-09-24

					Reporting
Parameter	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Limits
Benzene		5	< 0.00533	m mg/Kg	0.00533
Toluene		5	< 0.00645	mg/Kg	0.00645
Ethylbenzene		5	< 0.0116	mg/Kg	0.0116
Xylene		5	< 0.00874	$\mathrm{mg/Kg}$	0.00874

						$_{ m Spike}$	Percent	Recovery
Surrogate	\mathbf{F}	\mathbf{C}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.48	mg/Kg	1	2.00	74	70 - 130

Method Blank (1)

QC Batch: 125143Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 QC Preparation: 2015-09-24 Prepared By: AK

					Reporting
Parameter	${ m F}$	\mathbf{C}	Result	Units	Limits
GRO		5	< 2.32	${ m mg/Kg}$	2.32

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Short Fuse Fed #1

						Spike	Percent	Recovery
Surrogate	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.67	mg/Kg	1	2.00	84	70 - 130

Method Blank (1)

QC Batch: 125366Date Analyzed: 2015 - 10 - 05Analyzed By: RL Prep Batch: QC Preparation: Prepared By: RL 106049 2015-10-05

Reporting Parameter \mathbf{F} \mathbf{C} Result UnitsLimits $\overline{\text{Chloride}}$ < 4.69 mg/Kg 4.69 3,4,6

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Short Fuse Fed #1 Lea Co, NM

Duplicates

Duplicate (1) Duplicated Sample: 404982

			Duplicate	Sample				RPD
Param	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dilution	RPD	Limit
Moisture		5	12.4	12.4	%	1	0	20

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Short Fuse Fed #1

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1,2,3,4	438	mg/Kg	1	500	< 5.22	88	60.9 - 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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1,2,3,4	459	mg/Kg	1	500	< 5.22	92	60.9 - 130	5	20

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

			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane		3	29.4	33.0	mg/Kg	1	25.0	118	132	48.9 - 172

Laboratory Control Spike (LCS-1)

QC Batch: Date Analyzed: Analyzed By: AK 125138 2015-09-25 Prep Batch: 105841 QC Preparation: 2015-09-24 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	2.00	mg/Kg	1	2.00	< 0.00533	100	70 - 130
Toluene		5	1.83	mg/Kg	1	2.00	< 0.00645	92	70 - 130
Ethylbenzene		5	1.78	mg/Kg	1	2.00	< 0.0116	89	70 - 130
Xylene		5	5.45	mg/Kg	1	6.00	< 0.00874	91	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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.87	mg/Kg	1	2.00	< 0.00533	94	70 - 130	7	20
Toluene		5	1.74	mg/Kg	1	2.00	< 0.00645	87	70 - 130	5	20
Ethylbenzene		5	1.69	mg/Kg	1	2.00	< 0.0116	84	70 - 130	5	20
Xylene		5	5.09	mg/Kg	1	6.00	< 0.00874	85	70 - 130	7	20

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Short Fuse Fed #1

			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.80	1.81	mg/Kg	1	2.00	90	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.49	1.47	mg/Kg	1	2.00	74	74	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 125143Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 QC Preparation: 2015-09-24 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	20.3	mg/Kg	1	20.0	< 2.32	102	70 - 130

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

			LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		5	20.7	mg/Kg	1	20.0	< 2.32	104	70 - 130	2	20

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

			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	F	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.85	1.85	mg/Kg	1	2.00	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.70	1.69	mg/Kg	1	2.00	85	84	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 125366 Date Analyzed: Analyzed By: RL 2015 - 10 - 05Prep Batch: 106049 QC Preparation: 2015-10-05Prepared By: RL

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		3,4,6	275	mg/Kg	1	250	< 4.69	110	90 - 110

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

			LCSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3,4,6	275	mg/Kg	1	250	< 4.69	110	90 - 110	0	20

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Short Fuse Fed #1

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 404963

QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ Prep Batch: 105814 QC Preparation: 2015-09-23 Prepared By: HJ

			MS			$_{\mathrm{Spike}}$	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1,2,3,4	386	mg/Kg	1	500	< 5.22	77	47.9 - 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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1,2,3,4	406	mg/Kg	1	500	< 5.22	81	47.9 - 130	5	20

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

			MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane		3	31.6	33.1	mg/Kg	1	25	126	132	48.9 - 172

Matrix Spike (MS-1) Spiked Sample: 404978

Analyzed By: AK QC Batch: 125138 Date Analyzed: 2015-09-25 Prep Batch: 105841 QC Preparation: 2015-09-24 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	Qs	5	1.07	mg/Kg	1	2.00	< 0.00533	54	70 - 130
Toluene	$_{\mathrm{Qs}}$	5	1.27	mg/Kg	1	2.00	< 0.00645	64	70 - 130
Ethylbenzene		5	1.40	mg/Kg	1	2.00	< 0.0116	70	70 - 130
Xylene		5	4.29	mg/Kg	1	6.00	< 0.00874	72	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	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	Qs	5	1.28	mg/Kg	1	2.00	< 0.00533	64	70 - 130	18	20
Toluene		5	1.42	mg/Kg	1	2.00	< 0.00645	71	70 - 130	11	20
Ethylbenzene		5	1.55	mg/Kg	1	2.00	< 0.0116	78	70 - 130	10	20
Xylene		5	4.72	mg/Kg	1	6.00	< 0.00874	79	70 - 130	10	20

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Short Fuse Fed #1

			MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.78	1.86	mg/Kg	1	2	89	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.50	1.48	mg/Kg	1	2	75	74	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404978

QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK Prep Batch: 105841 QC Preparation: 2015-09-24 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	Qs	5	10.7	mg/Kg	1	20.0	< 2.32	54	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	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	Qr,Qs	5	2.78	mg/Kg	1	20.0	< 2.32	14	70 - 130	118	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{F}	\mathbf{C}	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			1.72	1.76	mg/Kg	1	2	86	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.71	1.70	mg/Kg	1	2	86	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404982

QC Batch: Date Analyzed: Analyzed By: RL 125366 2015 - 10 - 05Prep Batch: 106049 QC Preparation: 2015-10-05Prepared By: RL

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		3,4,6	290	mg/Kg	1	250	19	108	80 - 120

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

			MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3,4,6	286	mg/Kg	1	250	19	107	80 - 120	1	20

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Short Fuse Fed #1 Lea Co, NM

Calibration Standards

Standard (CCV-1)

QC Batch:	125089	Date Analyzed:	2015-09-24	Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1,2,3,4	mg/Kg	500	430	86	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch:	125089	Date Analyzed:	2015-09-24	Analyzed By:	$_{\mathrm{HJ}}$
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				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1,2,3,4	mg/Kg	500	438	88	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch:	125138	Date Analyzed:	2015-09-25	Analyzed By:	AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0954	95	80 - 120	2015-09-25
Toluene		5	mg/kg	0.100	0.0891	89	80 - 120	2015 - 09 - 25
Ethylbenzene		5	mg/kg	0.100	0.0875	88	80 - 120	2015 - 09 - 25
Xylene		5	mg/kg	0.300	0.266	89	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0970	97	80 - 120	2015-09-25
Toluene		5	mg/kg	0.100	0.0871	87	80 - 120	2015-09-25

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					"			,
standard continued								
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Ethylbenzene		5	mg/kg	0.100	0.0869	87	80 - 120	2015-09-25
Xylene		5	mg/kg	0.300	0.259	86	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.965	96	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.891	89	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-2)

QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL

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Short Fuse Fed #1

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

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Short Fuse Fed #1 Lea Co, NM

Limits of Detection (LOD)

					$_{ m Spike}$	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021 B	soil	BTEX-2	Xylene	0.0120	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	10.0	Pass
TPH DRO	S 8015 D	soil	TPH-2	DRO	10.4	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	5.00	Pass

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 25 of 26 Lea Co, NM

Short Fuse Fed #1

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E- 10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- Description
- Analyte detected in the corresponding method blank above the method detection
- Analyzed out of hold time Η
- Estimated concentration
- The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- Instrument software did not integrate
- Instrument software misidentified the peak
- Instrument software integrated improperly
- MI5Baseline correction
 - Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Spike recovery outside of laboratory limits. Qs
- Surrogate recovery outside of laboratory limits. Qsr
 - The analyte is not detected above the SDL

Report Date: October 6, 2015 Work Order: 15092228 Page Number: 26 of 26 Short Fuse Fed #1 Lea Co, NM

Attachments

The scanned attachments will follow this page.

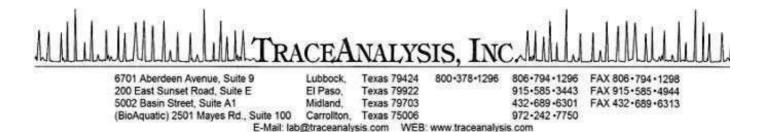
Please note, each attachment may consist of more than one page.

LAB Order ID # Page 6701 Aberdeen Ave, Ste 9 TraceAnalysis, Inc. 5002 Basin Street, Suite A1 200 East Sunset Rd., Suite E BioAquatic Testing Lubbock, Texas 79424 Midland, Texas 79703 El Paso, Texas 79922 2501 Mayes Rd., Ste 100 Tel (806) 794-1296 Tel (432) 689-6301 Tel (915) 585-3443 Carroliton, Texas 75006 email: lab@traceanalysis.com Fax (806) 794-1298 Fax (432) 689-6313 Fax (915) 585-4944 Tel (972) 242-7750 1 (800) 378-1296 Company Name: CH2M HILL Phone #: 972 663 2287 **ANALYSIS REQUEST** Sircle or Specify Method No.) Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #: Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M.COM Turn Around Time if different from standard Invoice to: DIRECT BILL EOG RE: ZANE KURTZ Project #: Project Name: SHQRT FUSE FED #1 / TX1005 / DRO / TVHC 8260B / 624 Project Location: LEA COUNTY NEW MEXICO Sampler include state) Signature: Pesticides 8081A / 608 **PRESERVATIVE** CONTAINERS Volume/Amount CLP Semi Volatiles MATRIX SAMPLING **METHOD** GC/MS Semi. Vol. LAB# FIELD CODE SLUDGE WATER LAB USE H₂SO₄ HNOS SOIL DATE NON AR AR TIME ONLY 빙 104978 FUSE-A-2'-09212015 40Z 1150 FUSE-A-4'-09212015 104679 1154 FUSE-A-6'-09212015 1158 FUSE-A-8'-09212015 1202 FUSE-A-10'-09212015 1206 Relinguished by: Company: Date: Time: Received by: Company: Date: Time: INST I REMARKS: LAB USE Warren Maurer CH2M OBSOLU 9/22 ANALYZE FOR MOISTURE CONTENT ONLY BOK O. Relinquished by: Dry Weight Basis Required

Please GUNVATE

TRRP Report Required Separate report Company: Date: Time: Received by: Company: Date: INS ntact Y/N OBS COR leadspace Y / N /NA Relinquished by: Company: Date: Time: Received by: Company: Date: INST Time: **OBS** Check If Special Reporting Limits Are Needed COR Log-in Review Submittal of samples constitutes agreement to Terms and Conditions Carrier# () 1 ORIGINAL COPY

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jennifer Dussor CH2M Hill 12750 Merit Dr. Ste. 1100 Dallas, Tx, 75251

Dallas, 1X, 75251

Report Date: December 21, 2015

Work Order: 15112524

Project Location: Lea Co, NM Project Name: Short Fuse Fed #1

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
409116	Fuse-W-10-11242015	soil	2015-11-24	14:40	2015-11-25
409117	Fuse-N-10-11242015	soil	2015-11-24	15:20	2015-11-25
409118	Fuse-E-10-11242015	soil	2015-11-24	15:30	2015-11-25
409119	Fuse-FL-10-11242015	soil	2015-11-24	11:40	2015-11-25
409120	Fuse-S-10-11242015	soil	2015-11-24	11:50	2015-11-25

Notes

• Work Order 15112524: NMOCD. Dry weight basis required.

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

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

Notes:

 $All \ sample \ results \ are \ reported \ on \ a \ dry \ weight \ basis.$

 $For \ inorganic \ analyses, \ the \ term \ MQL \ should \ actually \ read \ PQL.$

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

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Analytical Report Sample 409116 (Fuse-W-10-11242015) Sample 409117 (Fuse-N-10-11242015) Sample 409118 (Fuse-E-10-11242015) Sample 409119 (Fuse-FL-10-11242015) Sample 409120 (Fuse-S-10-11242015)	5 6 6
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Duplicates QC Batch 126661 - Duplicate (1)	9
Laboratory Control Spikes 1 QC Batch 126856 - LCS (1) 1	10
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Limits of Detection (LOD)	13
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Report Date: December 21, 2015 Work Order: 15112524 Page Number: 4 of 15 Short Fuse Fed #1 Lea Co, NM

Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-11-25 and assigned to work order 15112524. Samples for work order 15112524 were received intact at a temperature of 23.3 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (IC)	E 300.0	107354	2015-12-09 at 11:25	126856	2015-12-09 at 12:19
Moisture Content	ASTM D 2216-05	107186	2015-11-27 at $12:25$	126661	2015-11-30 at $10:42$

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 15112524 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.

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 5 of 15 Short Fuse Fed #1 Lea Co, NM

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 409116 - Fuse-W-10-11242015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: Prep Method: E 300.0 N/AQC Batch: 126856 Date Analyzed: 2015-12-09 Analyzed By: RLPrep Batch: 107354 Sample Preparation: Prepared By: RL

SDLMQLMethod Based Based Blank MQL MDL \mathbf{F} \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 21.1< 29.214.5mg/Kg 9.74 25 8.34 В,ЈЬ 1,2,4

Sample: 409116 - Fuse-W-10-11242015

Laboratory: Midland

Moisture Content Prep Method: N/A Analysis: Analytical Method: ASTM D 2216-05 QC Batch: 126661 Date Analyzed: Analyzed By: AM2015-11-30 Prep Batch: 107186 Sample Preparation: 2015-11-27 Prepared By: AM

Sample: 409117 - Fuse-N-10-11242015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0Prep Method: N/AQC Batch: 126856 Date Analyzed: 2015-12-09 Analyzed By: RLSample Preparation: Prep Batch: 107354 Prepared By: RL

SDL MQL Method Based Based Blank MQLMDL F \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 103 103 14.1 mg/Kg 1 9.48 25 8.34 1,2,4

Sample: 409117 - Fuse-N-10-11242015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 6 of 15 Lea Co, NM

Short Fuse Fed #1

QC Batch: 2015-11-30 126661 Date Analyzed: Analyzed By: AMPrep Batch: 107186 Sample Preparation: 2015-11-27 Prepared By: AM

RL

 \mathbf{C} Parameter F Result Units Dilution RLMoisture 12.0 % 0 3

Sample: 409118 - Fuse-E-10-11242015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 126856Date Analyzed: 2015 - 12 - 09Analyzed By: RLPrep Batch: 107354 Sample Preparation: Prepared By: RL

> SDLMQL Method

Based Based Blank MQLMDL F С Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 73.773.714.6 mg/Kg 9.82 25 8.34 1 В 1,2,4

Sample: 409118 - Fuse-E-10-11242015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 126661 Date Analyzed: Analyzed By: AM2015-11-30 Prep Batch: 107186 Sample Preparation: 2015-11-27 Prepared By: AM

RLF \mathbf{C} Result Dilution RLParameter Units Moisture 15.1% 0 3

Sample: 409119 - Fuse-FL-10-11242015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 126856 Date Analyzed: 2015-12-09 Analyzed By: RLPrep Batch: 107354 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQLMDLF \mathbf{C} Parameter Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 2000 2000 69.4 mg/Kg 5 46.7 25 8.34 1,2,4В

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 7 of 15

Short Fuse Fed #1 Lea Co, NM

Sample: 409119 - Fuse-FL-10-11242015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/AQC Batch: 126661 Date Analyzed: 2015 - 11 - 30Analyzed By: AMPrep Batch: 107186 Sample Preparation: 2015-11-27 Prepared By: AM

Sample: 409120 - Fuse-S-10-11242015

Laboratory: Lubbock

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 126856 Date Analyzed: 2015-12-09 Analyzed By: RL Prep Batch: 107354 Sample Preparation: Prepared By: RL

SDLMQL Method Based Based Blank MQLMDLParameter F \mathbf{C} Result Result Result Units Dilution SDL(Unadjusted) (Unadjusted) Chloride 30.0 30.0 13.8 mg/Kg 9.31 25 8.34 1 1,2,4

Sample: 409120 - Fuse-S-10-11242015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A QC Batch: 126661 Date Analyzed: 2015 - 11 - 30AMAnalyzed By: Prep Batch: 107186 Sample Preparation: 2015-11-27 Prepared By: AM

Report Date: December 21, 2015 Work Order: 15112524Page Number: 8 of 15 Lea Co, NM

Short Fuse Fed #1

Method Blanks

Method Blank (1)

QC Batch: 126856Date Analyzed: 2015 - 12 - 09Analyzed By: RL Prep Batch: 107354 QC Preparation: 2015-12-09 Prepared By: RL

Reporting \mathbf{C} Limits Parameter \mathbf{F} Result Units Chloride 12.4 mg/Kg 8.34 В 1,2,4

Report Date: December 21, 2015 Work Order: 15112524Page Number: 9 of 15 Lea Co, NM

Short Fuse Fed #1

Duplicates

Duplicate (1) Duplicated Sample: 409120

QC Batch: 126661 Date Analyzed: Analyzed By: AM 2015 - 11 - 30Prep Batch: 107186 Prepared By: AM QC Preparation: 2015-11-27

			Duplicate	Sample				RPD
Param	\mathbf{F}	\mathbf{C}	Result	Result	Units	Dilution	RPD	Limit
Moisture		3	10.8	10.4	%	1	4	20

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 10 of 15 Lea Co, NM

Short Fuse Fed #1

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: Analyzed By: RL 126856Date Analyzed: 2015-12-09 Prep Batch: 107354 QC Preparation: 2015-12-09 Prepared By: RL

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		1,2,4	261	mg/Kg	1	250	12.4	99	90 - 110

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

			LCSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,4	262	mg/Kg	1	250	12.4	100	90 - 110	0	20

Report Date: December 21, 2015 Work Order: 15112524Page Number: 11 of 15 Lea Co, NM

Short Fuse Fed #1

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 409120

QC Batch: Analyzed By: RL 126856Date Analyzed: 2015 - 12 - 09Prep Batch: 107354 QC Preparation: 2015-12-09 Prepared By: RL

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride		1,2,4	279	mg/Kg	1	250	26.9	101	80 - 120

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

			MSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,4	277	mg/Kg	1	250	26.9	100	80 - 120	1	20

Report Date: December 21, 2015 Work Order: 15112524Page Number: 12 of 15 Lea Co, NM

Short Fuse Fed #1

Calibration Standards

Standard (CCV-1)

QC Batch: 126856 Date Analyzed: 2015-12-09 Analyzed By: RL

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		1,2,4	mg/Kg	25.0	26.7	107	90 - 110	2015-12-09

Standard (CCV-2)

QC Batch: 126856Date Analyzed: 2015-12-09 Analyzed By: RL

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	\mathbf{F}	\mathbf{C}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		1,2,4	mg/Kg	25.0	26.1	104	90 - 110	2015-12-09

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 13 of 15 Short Fuse Fed #1 Lea Co, NM

Limits of Detection (LOD)

					$_{ m Spike}$	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	12.5	Pass

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 14 of 15 Short Fuse Fed #1 Lea Co, NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	LELAP	LELAP-02003	Lubbock
2	NELAP	T104704219-15-11	Lubbock
3	NELAP	T104704392-14-8	Midland
4		2015-066	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

Attachments

Report Date: December 21, 2015 Work Order: 15112524 Page Number: 15 of 15 Short Fuse Fed #1 Lea Co, NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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

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

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

BioAquatic Testing 2501 Mayes Rd., Ste 100 Carrollton, Texas 75006 Tel (972) 242-7750

Brandon & Clark 3403 Industrial Blvd. **Hobbs, NM 88240** Tel (575) 392-7561

Company	mail: lab@traceanalysis.com	3			1 (80	06) 794 0) 378-	-1298 1296			6 F	ax (43	2) 68	39-6313			Fa.	x (91 (888	5) 588) 588	5-494 3443	14 3			T	el (9	72) 2	exas 242-7	7 50 750	06		Hobb Tel (5 Fax ()s, NN 575) 3 575) 3	/1 88240 92-7561 192-4508	
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Project #: Project Lo	Scation (including state):						roject Sh() ample	Nam V+	ie: fi	بحو	Fee 04	A	#1	11	8260 / 624	8260 / 624	TX1005 E	NHC NHC	Cr Pb Se H	Ba Cd Cr Pb		AGE SOMEON			0 / 625			N CO	2 -14, r 04	EPA	*	erent from	
	A COLOR OF THE COL	NERS	rmount		MAT	RIX			ESEI			to Lamba	SAMI	PLING	/ 602 /	/ 602 / 82	TX1005 /	625 625	g As Ba Cd	As	es Volatilos	ides		8260 / 624	i. Vol. 8270	381 / 608		tent N. O.	K, TDS, EC	3	Stu/C	Time if diff	
LAB # (LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	WATER	SOIL	SLUDGE	E H	HNO ₃	H ₂ SO ₄	ICE	NONE	of the second second	DATE	TIME	MTBE 8021	BTEX 8021	TPH 418.1 / TX1005 / TX1005 Ext(C35)	PAH 8270 / 625	otal Metals A	TCLP Metals Ag	TCLP Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 /	GC/MS Semi. Vol	Pesticides 8081 /	BOD, TSS, pH		Na, Ca, Mg, K,	JAC.	Mois	Turn Around Time if different from	Hold
109116	Fuse-W-10-11242015 Fuse-N-10-11242015		40Z		X			Discontinuo de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del	BANKS SAME		X	1	1/24	1440			10 00 10 00 00 00 00 00 00 00 00 00 00 0		3 9			10 mm sept	CC.	0	0 0	. 0	B	≥ 0	Z	X		1	Ĭ
19118	Fuse-E-10-11242015 Fuse-FL-10-11252015				10 m			William I					1/24	1530			SALES OF SALES		No.	The state of the s					20 C C C C C C C C C C C C C C C C C C C		Auto and						
109120	Fuse-S-16-1452015	V	V		4			Merch Transfer			4	1	1/25	1150					190000									The second		41			25
								0.00	200		24		7	A STATE OF S					N K C						3		1						
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Relinquish	M CH2M 11/25/19 ed by: Company: Date:	5 16 Tin	ne:	D	eived Eived	A	TA	mpa	11-	15	ate:	16	Time:	INST OBS COR INST	22,	<u>2°</u>		AB ON	IL			RE	MAF	RKS	:		11	1				\	
Relinquish		Tin	MITTER	d	K.	0	_	npai	18	*/	ate:	С	Time:	OBS_ COR_ INST OBS_ COR_	以多		Hea	dspac	e <u>Y/</u>	NA	X	TRE	RP Re	eport	Req	Required Report	i	10					
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 11, 2016

Bernie Bockish GHD 6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Short Fuse Fed #1 OrderNo.: 1603189

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/3/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1603189**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/11/2016

	GHD hort Fuse Fed #1				Lab Order: 1603189
Lab ID:	1603189-001			Collection I	Date: 2/29/2016 11:55:00 AM
Client Sample ID:	S-088210-19-022916-	-SP-01		Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		ND	1.5	mg/Kg	1 3/8/2016 7:10:29 PM 24147
Lab ID:	1603189-002			Collection I	Date: 2/29/2016 12:20:00 PM
Client Sample ID:	S-088210-19-022916-	SP-02		Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		110	30	mg/Kg	20 3/8/2016 8:12:32 PM 24147
Lab ID:	1603189-003			Collection I	Date: 2/29/2016 12:45:00 PM
Client Sample ID:	S-088210-19-022916-	-SP-03		Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		22	7.5	mg/Kg	5 3/8/2016 8:49:47 PM 24147
Lab ID:	1603189-004			Collection I	Date: 2/29/2016 1:00:00 PM
Client Sample ID:	S-088210-19-022916-	-SP-04		Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		ND	7.5	mg/Kg	1 3/8/2016 9:14:36 PM 24147
Lab ID:	1603189-005		(Collection I	Date: 2/29/2016 1:10:00 PM
Client Sample ID:	S-088210-19-022916-	SP-05		Ma	trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		ND	7.5	mg/Kg	5 3/8/2016 9:39:25 PM 24147

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

DF Date Analyzed

Batch ID

Lab Order: 1603189

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/11/2016

CLIENT: GHD Lab Order: 1603189 Project: Short Fuse Fed #1 Lab ID: 1603189-006 **Collection Date:** 2/29/2016 1:20:00 PM Client Sample ID: S-088210-19-022916-SP-06 Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride ND 7.5 mg/Kg 3/8/2016 10:04:15 PM 24147 Collection Date: 2/29/2016 1:30:00 PM Lab ID: 1603189-007

Lab ID: 1003189-007 Collection Date: 2/29/2010 1:30:00 PM

Client Sample ID: S-088210-19-022916-SP-07 Matrix: SOIL

Result

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 350
 30
 mg/Kg
 20
 3/8/2016 10:41:29 PM
 24147

PQL Qual Units

Lab ID: 1603189-008 **Collection Date:** 2/29/2016 1:40:00 PM

Client Sample ID: S-088210-19-022916-SP-08 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 ND
 7.5
 mg/Kg
 5
 3/8/2016 11:18:43 PM
 24147

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Analyses

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1603189**

11-Mar-16

Client: GHD

Project: Short Fuse Fed #1

Sample ID MB-24147 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 24147 RunNo: 32667

Prep Date: 3/8/2016 Analysis Date: 3/8/2016 SeqNo: 999625 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-24147 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 24147 RunNo: 32667

Prep Date: 3/8/2016 Analysis Date: 3/8/2016 SeqNo: 999626 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.0 90 110

Sample ID 1603189-001AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: S-088210-19-022916 Batch ID: 24147 RunNo: 32667

Prep Date: 3/8/2016 Analysis Date: 3/8/2016 SeqNo: 999628 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0.8910 89.2 64.2 13

Sample ID 1603189-001AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: S-088210-19-022916 Batch ID: 24147 RunNo: 32667

Prep Date: 3/8/2016 Analysis Date: 3/8/2016 SeqNo: 999629 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0.8910 89.3 64.2 131 0.0916 20

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

D Complementation

Page 3 of 3

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1603189 GHD Client Name: Received by/date: Ashley Gallegos 3/3/2016 9:50:00 AM Logged By: 3/3/2016 1:46:30 PM Ashley Gallegos Completed By: 03 03/16 Reviewed By: Chain of Custody Not Present ✓ No 🗌 Yes Custody seals intact on sample bottles? No 🗌 Not Present Yes V 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In No 🗌 NA . Yes V 4. Was an attempt made to cool the samples? NA 🗌 No 🗌 Were all samples received at a temperature of >0° C to 6.0°C No Yes V Sample(s) in proper container(s)? No Yes V 7. Sufficient sample volume for indicated test(s)? No . 8. Are samples (except VOA and ONG) properly preserved? Yes V NA 🗌 No V Yes 9. Was preservative added to bottles? No 🗌 No VOA Vials Yes 10.VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? Yes (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No _ 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? Checked by: No ... Yes 🗸 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes No 🗌 16. Was client notified of all discrepancies with this order? Date Person Notified: In Person Phone Fax Via: eMail By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Signed By Seal Date Seal Intact | Seal No Cooler No Temp ℃ Condition Good 1.4

Chain-of-Custody Record	Turn-Around Time:	M M HALL ENVIRONMENTAL
ent: GHD-Albuquerque	☑ Standard ☐ Rush	HALL ENVIRONMENTAL ANALYSIS LABORATORY
	Drojoot Namo:	www.hallenvironmental.com
iling Address: GIZI Indian School FUNE Stc 200	Short fuge Fed #1	4901 Hawkins NE - Albuquerque, NM 87109
xignerque, NM, 87110	Project #:	Tel. 505-345-3975 Fax 505-345-4107
one #: 505 -884 - 0672_	088210/19	Analysis Request
	Project Manager: Zernard Bockisch	SO ₄)
/QC Package:	70.	(8021) Sas only) O4,SO4) CB's CB's
Standard	505-280-0572	
creditation	Sampler: Steve Perez	+ TMB (O / DF
NELAP Other	On Ice:	BE + TMI BE + TPH GGRO / [GGRO / [GGRO / 1] od 504.1) O or 8270 tals (NO ₃ ,NO) \(\lambda\)
EDD (Type)	Sample Temperature: 2.4-1.0 =1.4°C	MTBE MTBE (GI 15B (GI 2310 or Sticides (VA) emi-VO Metals (VA) emi-VO
ate Time Matrix Sample Request ID	Container Type and # Preservative HEAL No.	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only TPH 8015B (GRO / DRO / MRO TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) RZFO (Semi-VOA) Air Bubbles (Y or N)
-16 1155 Soil 5-088210-19-022916-5P-01	Hozgass-1 Tee -001	4
1220 5-088210-19-022916-59-02		Υ
1245 5-088210-19-022916-57-03	-003	K K
1300 S-088210-19-02291G-SP-04	-004	
1310 S-088210-19-022916-58-05		
1320 5-088210-19-022916-5P-06	-019	1
1330 5-088210-19-022916-59-07	-001	The state of the s
1340 5-888210-19-022916-58-08	V -008	
r: Time: Relinquished by:	Received by: Date Time 3/2/16 0824 Received by: Date Time	Remarks:
	Muhei / 03/03/16 0950	
ir necessary, samples submitted to Hall Environmental may be subco	ontracted to other accredite graboratories. This serves as notice of this	possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 01, 2016

Bernie Bockish
GHD

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Short Fuse Fed 1 OrderNo.: 1605B43

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/24/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1605B43**Date Reported: **6/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1605B43

Project: Short Fuse Fed 1

Lab ID: 1605B43-001 **Collection Date:** 5/20/2016 12:32:00 PM

Client Sample ID: S-088210-19-052016-SP-01 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 340
 30
 mg/Kg
 20
 6/1/2016 12:45:41
 AM
 25584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1605B43**

01-Jun-16

Client: GHD

Project: Short Fuse Fed 1

Sample ID MB-25584 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 25584 RunNo: 34591

Prep Date: 5/31/2016 Analysis Date: 5/31/2016 SeqNo: 1066763 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-25584 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25584 RunNo: 34591

Prep Date: 5/31/2016 Analysis Date: 5/31/2016 SeqNo: 1066764 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.6 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmentol Analysis Laboratory 4901 Hawkins NE Albuquerque, NA 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: GHD	Wor	rk Order Number	1605B43	3		RcptNo: 1	
Received by/date:	05/2	4/10					
Logged By: Lindsay Ma	ngin 5/24/2	016 9:40:00 AM		0	Hoge		
Completed By: Lindsay Ma	ngin 5/25/2	016 9:58:49 AM		Story	Hliga)	
Reviewed By:	05	125/16		UV	U		
Chain of Custody		, ,					
1. Custody seals intact on sar	mple bottles?		Yes	No		Not Present 🗹	
2. Is Chain of Custody comple	ete?		Yes 🗸	No		Not Present	
3. How was the sample delive	red?		Courier				
Log In							
4. Was an attempt made to o	ool the samples?		Yes 🗸	. No	D	NA \square	
5. Were all samples received	at a temperature of >0°	C to 5.0°C	Yes 🗸	No		NA 🗆	
6. Sample(s) in proper contain	ner(s)?		Yes 🗸	No.			
7. Sufficient sample volume for	or indicated test(s)?		Yes 🗸	No			
8. Are samples (except VOA a	and ONG) properly prese	erved?	Yes 🗸	No			
9. Was preservative added to	bottles?		Yes	No	~	NA 🗆	
10. VOA vials have zero heads	pace?		Yes	No		No VOA Vials ✓	
11. Were any sample contained	rs received broken?		Yes -	No	V	# - f	
10 -				8	-	# of preserved bottles checked	
Does paperwork match bott (Note discrepancies on chair			Yes 🗸	No	Ш	for pH: (<2 or >12 unles	s noted)
13, Are matrices correctly identi		v?	Yes 🗸	No		Adjusted?	
14. Is it clear what analyses we		7.00	Yes 🗸	No			
 Were all holding times able (If no, notify customer for au 			Yes 🗸	No		Checked by:	
(ii no, notify customer for at	ithorization.)						
Special Handling (if appl	icable)						
16, Was client notified of all dis-	crepancies with this orde	er?	Yes	No		NA 🗷	
Person Notified:		Date			_		
By Whom:		Via:	eMail	Phone	Fax	☐ In Person	
Regarding:							
Client Instructions:							
5000							
Additional remarks:							
17. Additional remarks: 18. Cooler Information Cooler No Temp ℃	Condition Seal Intac	ct Seal No S	Seal Date	Signed	Bv		

			ustody Record	Turn-Around	Time:		HALL ENVIRONMENTAL												
ent: (GH1	1-Albur	querque	⊡∕Standard	□ Rush	1												TOR	
		7 (Project Name			<u> </u>				ww.h							. •	•
ailing	Address	6121	Inclian School BONE	Sha	1 1000	Fed#1		49	∩1 H	 awkin							100		
2 20	n Alba	1 2 (2)	NM RTUD	Project #:	1/7/452	C100 4+1				5-345			Fax						
one #	#: <i>.510</i>	5-884.	, NM, 87110 -0672_	088	210/19				JI. 00	0 0 10		Anal							
ail or	r Fax#: ∫	Bernard.	Bockisch Oghd.con	Project Mana	iaer:		_	(ylu	(0)) ₄)						
	Package:		J	Bemord	Bockisc	h	1 1 TMB's (8021)	IS OF	DRO/MRO)		$\int_{\widetilde{\mathcal{Q}}}$, SC	PCB's			9		
Stan	dard		☐ Level 4 (Full Validation)	505	-280-05	72] (8 - (8	(Gg	RO		SWI O		P. P.	2 P(7		
	tation			Sampler: S	four Pere	Z	+ TMB's (8021) + TPH (Gas only) RO / DRO / MRO) 18.1) 04.1) 8270 SIMS) 8,78082 PCB's 1,8082 PCB's 1,8082 PCB's					ĵ							
NEL		□ Othe	er	On Ice:	Yes	□ No	BE + TMI BE + TMI BE + TPH (GRO / [(GRO / 1) od 504.1) od 504.1) od 0 r 8270 stals stals stals -VOA)					or							
EDD	(Type)_	Г	,	Sample Tem	perature:ろ. 』	6-1.OCF= 2.6	- 置	18E	3 (G	7 po	8 2	etal	<u> </u>	side	₹	<u>-i</u>	Ž,		\ \ \ \
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	L BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 5)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)
-1.4	125-						 -		'	1		+ -					¥	+	
9/16 9/16	1255 1232	50:/	5-088210-19-05206-59-2	1 902 9/655-1	ICE	-001											X		
				/															
															Ì				
													1						
e:	Time:	Relinguish	ned by:	Received by:		Date Time	Rer	nark	s:										L
3/16	093	Fla	en tell	SpR		5/13/16 0931													
/6	1900)	Relinquish	hed by	Received by:	Cut or	Date Time 5/24/16 (394))												
				1/			<u>/-</u>												



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 22, 2016

Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Short Fuse Fed 1 OrderNo.: 1606A47

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/17/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1606A47**

Date Reported: 6/22/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-088210-19-061616-SP-01

Project: Short Fuse Fed 1
 Collection Date: 6/16/2016 1:10:00 PM

 Lab ID: 1606A47-001
 Matrix: SOIL
 Received Date: 6/17/2016 9:40:00 AM

Analyses	es Result			DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: LGT
Chloride	500	30	mg/Kg	20	6/22/2016 6:11:48 Al	M 25980

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 2 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A47**

22-Jun-16

Client: GHD

Project: Short Fuse Fed 1

Sample ID MB-25980 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **25980** RunNo: **35049**

Prep Date: 6/21/2016 Analysis Date: 6/22/2016 SeqNo: 1085079 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-25980 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25980 RunNo: 35049

Prep Date: 6/21/2016 Analysis Date: 6/22/2016 SeqNo: 1085080 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NI: Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD	Work Order Number	: 1606/	447		RcptN	o: 1
Received by/date: Logged By: Lindsay Mangin	OC/17/16 6/17/2016 9:40:00 AN	1		Jonahy Hodgo		
Completed By: Lindsay Mangin	6/20/2016 5:52:36 AM	1		Jundy Hargo		
Reviewed By:	06/20/16					
Chain of Custody	,					
1. Custody seals intact on sample bottl	es?	Yes	[]	No 🗀	Not Present	H
2. Is Chain of Custody complete?		Yes		No 门	Not Present	
3. How was the sample delivered?		Cour	<u>ier</u>			
<u>Log In</u>						
4. Was an attempt made to cool the sa	amples?	Yes		No 🗀	na [
5. Were all samples received at a temp	perature of >0° C to 6.0°C	Yes	₽	No [T]	NA L	ī
6. Sample(s) in proper container(s)?		Yes		No 🗀		
7. Sufficient sample volume for indicate	ed test(s)?	Yes		No [_		
8. Are samples (except VOA and ONG) properly preserved?	Yes		No []		
9. Was preservative added to bottles?		Yes		No 🗷	NA [.	- v - J
10.VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials	ì
11. Were any sample containers receive	ed broken?	Yes	[,]	No 🐱	# of preserved	
			r m	[bottles checked	
12.Does paperwork match bottle labels (Note discrepancies on chain of cus		Yes		No 🗔	for pH: (<	2 or >12 unless noted)
13. Are matrices correctly identified on 0		Yes		No []	Adjusted?	
14. Is it clear what analyses were reque		Yes		No [.]		
15. Were all holding times able to be me (If no, notify customer for authorization)		Yes		No []	Checked b	y:
Special Handling (if applicable)	<u> </u>					
16. Was client notified of all discrepanci	es with this order?	Yes	<u>:</u> J	No []	na 🖫	∲]
Person Notified:	Date:			<u> </u>		
By Whom:	Via:	. [_] eM	ail [] Phone []] Fax	[] In Person	
Regarding:	<u> </u>					•
Client Instructions:			*********		· · · · · · · · · · · · · · · · · · ·	•
17. Additional remarks:						
18. Cooler Information Cooler No Temp °C Condit	ion Seal Intact Seal No Yes	Seal D	ate	Signed By	_	
1. 2.0 3000					1	

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				Project Name	9:										nent						
ailing	Address	6/21	Indian School Bank	Short	fuse fee	1#1		490	01 H	awkir								′109			
6.7	200.4	Buswor	110 mg 27110	TETOICUL#.				Te	l. 50	5-345	5-39	75	F	ax :	505-	345-	410	7			
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Stan	dard		□ Level 4 (Full Validation)	5050	280-051	2_	3) s	(Ga	ဂ္ဂ			SIMS)		8	2 PC						
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EDD	(Type)_	T		Sample Tem	perature: Z	3	BE	BE.	9	od 4	g	0 0	stals	ž	ide	8	-VC	اد		-	≥
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1 1606A47	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride			Air Bubbles (Y or N)
GI6	1310	Soil	5-088210-19-061616-58-01	Yezglass-1	+15	-001	 - -				_	_			~	~	~	$ egthinspace{1.5em} otag$			\uparrow
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l ~ If	nécessary,	samples sib	mitted to Hall Environmental may be subd	ontracted to other a	ccredited laboratorie	es. This serves as notice of this	s possil	bility.	Any su	b-contra	acted	data w	vill be	clearl	y nota	ieg en	the a	nalytica	.l report.		

Analytical Report 532696

for

GHD Services, INC- Midland

Project Manager: Bernie Bockisch

Short Fuse-Federal #1

088210-19

11-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





11-JUL-16

Project Manager: **Bernie Bockisch GHD Services, INC- Midland**2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): 532696

Short Fuse-Federal #1

Project Address: Lea County, NM

Bernie Bockisch:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 532696. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 532696 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Hoah

Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-088210-19-062916-JPS-GHD1 30-31'	S	06-29-16 16:08	30 - 31 ft	532696-001
S-088210-19-062916-JPS-GHD1 35-36'	S	06-29-16 16:16	35 - 36 ft	532696-002
S-088210-19-062916-JPS-GHD1 40-41'	S	06-29-16 16:25	40 - 41 ft	532696-003



None

CASE NARRATIVE



Client Name: GHD Services, INC- Midland Project Name: Short Fuse-Federal #1

 Project ID:
 088210-19
 Report Date:
 11-JUL-16

 Work Order Number(s):
 532696
 Date Received:
 06/30/2016

Order Number(s): 532696	Date Received: 06/30/2016
Sample receipt non conformances and comments:	
Sample receipt non conformances and comments per sa	mple:

Page 4 of 12



Certificate of Analytical Results 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: S-088210-19-062916-JPS-GHD1 30-31' Matrix: Soil Date Received:06.30.16 15.19

Lab Sample Id: 532696-001 Date Collected: 06.29.16 16.08 Sample Depth: 30 - 31 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

% Moisture: 6.44

Analyst: MNR Date Prep: 07.07.16 18.30 Basis: Dry Weight

Seq Number: 997751

MNR

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.4	10.7	mg/kg	07.07.16 23.52		1



Certificate of Analytical Results 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: S-088210-19-062916-JPS-GHD1 35-36' Matrix: Soil Date Received:06.30.16 15.19

Lab Sample Id: 532696-002 Date Collected: 06.29.16 16.16 Sample Depth: 35 - 36 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

MNR % Moisture: 4.64

Analyst: MNR Date Prep: 07.07.16 18.30 Basis: Dry Weight

Seq Number: 997751

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.6	10.5	mg/kg	07.07.16 23.59		1



Analytical Method: Inorganic Anions by EPA 300/300.1

Certificate of Analytical Results 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: S-088210-19-062916-JPS-GHD1 40-41' Matrix: Soil

Date Collected: 06.29.16 16.25 Sample Depth: 40 - 41 ft

Lab Sample Id: 532696-003 Date Collected: 06.29.16 16.25

Prep Method: E300P

Basis:

Date Received:06.30.16 15.19

Dry Weight

Tech: MNR % Moisture: 7.27

Analyst: MNR Date Prep: 07.07.16 18.30

Seq Number: 997751

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.7	10.8	mg/kg	07.08.16 00.07		1



QC Summary 532696



GHD Services, INC- Midland

Short Fuse-Federal #1

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method:

Prep Method:

E300P

E300P

Seq Number: 997751 Matrix: Solid Date Prep: 07.07.16 LCS Sample Id: 710742-1-BKS LCSD Sample Id: 710742-1-BSD MB Sample Id: 710742-1-BLK

LCS %RPD MB Spike LCS Limits **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Chloride 20 07.07.16 22:26 <10.0 250 236 94 247 99 90-110 5 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method: Seq Number: 997751 Matrix: Soil Date Prep: 07.07.16

MD Sample Id: 532686-001 D Parent Sample Id: 532686-001

Parent MD %RPD **RPD** Units Analysis Flag **Parameter** Result Result Limit Date Chloride <10.0 <10.0 0 20 07.08.16 19:13 U mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751 Matrix: Soil 07.07.16 Date Prep:

MD Sample Id: 532697-003 D Parent Sample Id: 532697-003

MD **RPD** Parent %RPD Units Analysis Flag **Parameter** Result Limit Result Date 07.08.16 00:38 Chloride <10.0 <10.0 0 20 U mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: Seq Number: 997751 Matrix: Soil 07.07.16 Date Prep:

MS Sample Id: 532686-001 S Parent Sample Id: 532686-001

MS Parent Spike MS Limits Units Analysis Flag **Parameter** Result Amount Result %Rec Date Chloride <10.0 250 224 90 80-120 07.08.16 19:21 mg/kg

Analytical Method: Inorganic Anions by EPA 300/300.1

E300P Prep Method: 997751 Matrix: Soil 07.07.16 Seq Number: Date Prep:

MS Sample Id: 532697-003 S Parent Sample Id: 532697-003

Parent Spike MS MS Limits Units Analysis Flag Parameter Result Date Result Amount %Rec

Chloride <10.0 250 223 89 80-120 07.08.16 00:46 mg/kg

Analytical Method: Percent Moisture

Seq Number: 997692 Matrix: Solid

MB Sample Id: 997692-1-BLK

MB Units Analysis Flag **Parameter** Result Date

ND 07.06.16 18:00 Percent Moisture %



QC Summary 532696



GHD Services, INC- Midland

Short Fuse-Federal #1

Analytical Method: Percent Moisture

Seq Number: 997692 Matrix: Soil

Parent Sample Id: 532694-001 MD Sample Id: 532694-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	15.7	15.1	4	20	%	07.06.16 18:00	



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238 (210) 509-3334 (210) 509-3335
1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282 (602) 437-0330

Final 1.000



CHAIN OF CUSTODY

Page / Of

Setting the Standard since 1990

Stafford.Texas (281-240-4200) Odessa, Texas (432-563-1800) Lakeland, Florida (863-646-8526) Norcross, Georgia (770-449-8800) Tampa, Florida (813-620-2000) Dallas, Texas (214-902-0300) Xenco Quote # Service Center - San Antonio, Texas (210-509-3334) www.xenco.com Matrix Codes Analytical Information Client / Reporting Information A= Air Project Name/Number S = Soil/Sed/Solid GW =Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge WW= Waste Water W = Wipe O = Oil Vone WW= Waste Water Collection Number of preserved bottles No. Field ID / Point of Collection Sample **Field Comments** Depth 5-088210-19-062916-TPS 8 10 Turnaround Time (Business days) Data Deliverable Information 5 Day TAT Level II Std QC Level IV (Full Data Pkg /raw data) Same Day TAT 7 Day TAT TRRP Level IV **Next Day EMERGENCY** Level III Std QC+ Forms Contract TAT 2 Day EMERGENCY Level 3 (CLP Forms) UST / RG -411 3 Day EMERGENCY **TRRP Checklist** TAT Starts Day received by Lab, if received by 3:00 pm FED-EX/UPS: Tracking # SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Relinguished By: Received By: **Date Time** Received By: Relinquished By: Date Time: Received By: Custody Seal # Preserved where applicable Date Time: Received By: Relinquished by:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously to



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: GHD Services, INC- Midland

Date/ Time Received: 06/30/2016 03:19:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 532696

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		4.8
#2 *Shipping container in good condition	?	N/A
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ntainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	tainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	s?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	uished/ received?	Yes
#12 Chain of Custody agrees with sample	e label(s)?	Yes
#13 Container label(s) legible and intact?		Yes
#14 Sample matrix/ properties agree with	Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate	ed test(s)?	Yes
#19 All samples received within hold time	9?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace		N/A
#22 <2 for all samples preserved with HN samples for the analysis of HEM or HEM-analysts.		N/A
#23 >10 for all samples preserved with N	aAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:	Mary Negron Mary Negron	Date: <u>07/01/2016</u>
Checklist reviewed by:	Mmy Moah Kelsey Brooks	Date: 07/01/2016

Appendix B Waste Manifests

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA	T.A	ND	LI	C
		TID.		ľ

	1300 WEST MAIN ST	REE1 • OKLAHON	AA CITY, OK 73106 • F	'HONE (4	105) 23	6-4257	111	<u>Octs</u>	00
NON	N-HAZARDOUS WASTE MANIF	TEST NO	108074	1. PA	GE	OF	2. TRAIL	ER NO.	104
~	3. COMPANY NAME	4. ADDRESS				5. PICK	-UP DATE		
G	E.O.G. RESOURSES		oion Dr.			4/820			
	PHONE NO.	CITY	STATE	2	ZIP	6. TNRC	CC I.D. NO.		
E	(432) 686-3705	Midland	TX.	797					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:		8. CON	TAINE Typ		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	Non-Regulated, Non Hazardous Wast	:e		1	CN			Υ	WIGILID
	b.								
E	c.					+			
R	WT: 20.94D 1972	4D 19'	877)			1			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13.	WASTE PR	ROFILE N	D.
-A	SHORT FUSE FED#1	-151	al (005	2					
i	14. IN CA	10+/	11 041						-
· Т	NAME IN CA	PHONE NO	GENCY OR SPILE	L, CON	TAC		24-HOUR	EMERGE	NCV NO
1	KIN SLAUGHTER	575-887-4048	!				24-1100K	LMEKGE	VCT NO.
0	15.GENERATOR'S CERTIFICATION:	I Hereby declare tha	t the contents of this con	nsignmen	t are fi	illy and a	accurately d	escribed al	pove by proper
U	shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and are in a scluding applicable st	all respects in proper cor ate regulations, and are	ndition for the same	r transp materia	ort by hi als previo	ighway acco ously approv	ording to ap ved by LEA	oplicable A LAND, LLC
	PRINTED/TYPED NAME		SIGNATURE						DATE
R			SIGNATURE						DATE
Т	16. TRANSPORTER (1)		12	TD	A BIG	DO DO	ED (2)		
R			17.	IR	AINS	PORTI	ER (2)		
A	NAME: WATSON CONSTRUC	CTION	NAME:						
N S	TEXAS I.D. NO.		TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:	ZANE KURTZ	IN CASE OF EMEI	RGENCY	CON	ГАСТ:			
0	EMERGENCY PHONE: (432)) 425-2023	EMERGENCY PHO	DNE.					
R T	18. TRANSPORTER (1): Acknowledgment o	of receipt of material	19. TRANSPOR		2): Ac	knowled	gment of re	ceipt of ma	aterial
Ē R	PRINTED/TYPED NAME JSA 61 C	SEGOVIA	PRINTED/TYPED						
S	ground City Ist Six and	4/82015							
	SIGNATURE Y WALLY SAFETY	DATE	SIGNATURE				D/	ATE	
		ADDRESS:				- 1	PHONE:		
D F	Lea Land, LLC	l	e Marker 64, U.S	_		- 1	4	575-887	7-4048
I A		30 1	Miles East of Ca	rlsbad,	NM				
S C	PERMIT NO. WM-01-035 - New Mex	ioo	20. COMMENTS						
P I O L	WIVI-01-033 - New IVIEX	100							
S I	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I Hereby	certify that the above de	escribed v	vastes v	were deli	vered to this	s facility, th	hat the
A T L Y			1	CE CONTRACTOR	Г	10			
	AUTHORIZED SIGNATURE	Λ	CELL NO.	_	DA	ATE		TIM	IE .
	Wintis Juna	1007.		*		4/820	015	14	DU

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

-	1300 WEST MAIN ST	(REET • (OKLAHO	MA CITY, OK 73106	PHONE	(405) 23	6-4257	h	IATO	CN
NO	N-HAZARDOUS WASTE MANIF	EST	NO	108121	1. PA	AGE	OF	2. TRAIL	ER NO	114
G	3. COMPANY NAME	4. ADDI	RESS				5. PICK	-UP DATE		101
G	E.O.G. RESOURSES	5509.	Cham	pion Dr.				10/2015	·	
300				STATE			6. TNR	CC I.D. NO.		
E	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPPE	Midla	nd	TX.	_	706	RS 9	. TOTAL	10. UNIT	11. TEXAS
					No.	Туре		JANTITY	Wt/Vol.	WASTE ID #
N	^a Non-Regulated, Non Hazardous Wast	te			1	CM	1		Υ	1
100	b.									
E	c.						+-			
_	dwT:20110 0 NO	71/2					+			
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	XH)				\perp			
_	SHORT FUSE FED # 1	_		10/102	12/2		13.	. WASTE PF	ROFILE N	0.
A			101	11642						
æ	14. IN CA	SE OF		GENCY OR SPII	LL, CO	NTAC'	Γ	24 HOVE	E) (PP CP)	
T	KIN SLAUGHTER		87-404	В				24-HOUR	EMERGE	NCY NO.
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare the	at the contents of this c	onsignme	nt are fu	lly and	accurately d	escribed al	hove by proper
0	shipping name and are classified, packed, marked, and international and national government regulations, in-	u labeleu.	anu are in	all respects in proper c	Ondition to	ar franco	ort by b	inhumu acce	udina en	1:1:1-
R	PRINTED/TYPED NAME			SIGNATURE				,		DATE
K										DATE
T	16. TRANSPORTER (1)			17.	TI	RANSF	ORT	ER (2)		
R A	NAME: WATSON CONSTRUC	MOITS		NAME:				(-)		
N	TEXAS I.D. NO.	711014		TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT:	ZANE	KURTZ	1	EDCENC	V CONT	'A CIT			
O) 425-2		IN CASE OF EIVI		Y CONT	ACI:			
R T	18. TRANSPORTER (1): Acknowledgment of	f receipt c	of material	19. TRANSPO		(2): Ack	nowled	gment of re	ceint of me	
Ē	PRINTED/TYPED NAME Wile Le	en in								
R S	1 1 1 1 -	y cur	A741	PRINTED/TYPEI	J NAME.					
	SIGNATURE LEGISLO	DATE		SIGNATURE		· · · · · · · · · · · · · · · · · · ·		DA	TE	
		ADDR						PHONE:		
D F	Lea Land, LLC			e Marker 64, U	•		80,	4	575-887	7-4048
I A	PERMIT NO.		30	Miles East of C	arlsbad	, NM				
S C P I	WM-01-035 - Naw Mexi	ico		20. COMMENTS						
о т.										
S I A T	21.DISPOSAL FXCILITY'S OFRTIFICA facility is authorized and permitted to receive such was	ALIUN: astes.	: I Hereby	certify that the above of	lescribed v	wastes w	ere deli	vered to this	facility, th	at the
100	AUTHORIZED SIGNATURE			CELL NO.		DA	TE		TIM	Œ
	/ WILLS WA							0/2015	19	14

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 NON-HAZARDOUS WASTE MANIFEST 108122 1. PAGE OF 2. TRAILER NO 3. COMPANY NAME 5. PICK-UP DATE \mathbf{G} 5509 Champion Dr. E.O.G. RESOURSES 4/10/2015 PHONE NO. CITY STATE 6. TNRCC I.D. NO. (432) 686-3705 Midland E TX. 79706 7. NAME OR DESCRIPTION OF WASTE SHIPPED: 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS No. QUANTITY Wt/Vol. Type WASTE ID# N Non-Regulated, Non Hazardous Waste CM \mathbf{E} d₩T. R 12. COMMENTS OR SPECIAL INSTRUCTIONS 13. WASTE PROFILE NO. SHORT FUSE FED # 1 A 14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. T KIN SLAUGHTER 575-887-4048 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper O shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC PRINTED/TYPED NAME **SIGNATURE** R DATE T 16. TRANSPORTER (1) TRANSPORTER (2) 17. R NAME: WATSON CONSTRUCTION NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S ZANE KURTZ IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: 0 (432) 425-2023 EMERGENCY PHONE: EMERGENCY PHONE: R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T E PRINTED/TYPED NAME R 4/10/2015 SIGNATURE_ DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D \mathbf{F} 30 Miles East of Carlsbad, NM A PERMIT NO. 20 COMMENTS S C I WM-01-035 - New Mexico P 0 L 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I

CELL NO.

DATE

4/10/2015

facility is authorized and permitted to receive such wastes.

T Y

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 NON-HAZARDOUS WASTE MANIFEST 108156 1. PAGE OF 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE \mathbf{G} E.O.G. RESOURSES PHONE NO. 5509 Champion Dr. 4/14/2015 CITY STATE ZIP 6. TNRCC I.D. NO. E (432) 586-3705 Midland 79706 8. CONTAINERS 9. TOTAL 10. UNIT 7. NAME OR DESCRIPTION OF WASTE SHIPPED: 11. TEXAS No. 1 Type **OUANTITY** Wt/Vol. WASTE ID# N Non-Requiated, Non Hazardous Waste CM E c. R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. SHORT FUSE FED #1 A 14. IN CASE OF EMERGENCY OR SPILI NAME PHONE NO 24-HOUR EMERGENCY NO. T KIN SLAUGHTER 575-887-4048 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable 0 international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC PRINTED/TYPED NAME **SIGNATURE** DATE R TRANSPORTER (1) T 16. 17. **TRANSPORTER (2)** R NAME: WATSON CONSTRUCTION NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S ZANE KURTZ IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: 0 (432) 425-2023 EMERGENCY PHONE: **EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T E PRINTED/TYPED NAME R S SIGNATURE DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM I A PERMIT NO. 20. COMMENTS S \mathbf{C} WM-01-035 - New Mexico I P 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I facility is authorized and permitted to receive such wastes. A T Y AUTHORIZED SIGNATURE CELL NO. DATE HOL Monmon 4/14/2015

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

9	I	<u> 2</u> k	
2. TRAII	ER	NO.	~

PAPE						(111)		UK	
NO	N-HAZARDOUS WASTE MANIE		NO	108163	1. PA	AGEO	F 2. TRAII	LER NO. 9	DONO
G	3. COMPANY NAME	4. ADD	RESS			5.	PICK-UP DATE		- 00
G	E.O.G. RESOURSES PHONE NO.	5509 CITY	Cham	pion Dr. STATE		ZIP 6.	4/14/2015 TNRCC I.D. NO).	
E	(432) 686-3705	Midla	and	TX.	70	708			
l	7. NAME OR DESCRIPTION OF WASTE SHIPPE			177.		TAINERS	9. TOTAL	10. UNIT	11. TEXAS
N	^a Non-Regulated, Non Hazardous Wasi	te			No.	Type CM	QUANTITY	Wt/Vol.	WASTE ID#
	b.				1		 		
E	c.								
R	WT 44420								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	POEILE N	
A	SHORT FUSE FED#1						IS. WASTET	MOFILE N	0.
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
т	NAME	SE OF PHON	EMER	GENCY OR SPIL	L, CO	VTACT			
T	KIN SLAUGHTER		24-HOUR	EMERGE	NCY NO.				
ISOMERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prospection of the contents of								bove by proper	
	international and national government regulations, in	cluding a	pplicable st	ate regulations, and are	the same	r transport materials	t by highway according to the proviously appro-	ording to ap ved by LE/	plicable A LAND, LLC
R	PRINTED/TYPED NAME			SIGNATURE					DATE
									DAIE
Т	16. TRANSPORTER (1)			12	// /				
R				17.	116	LANSPO	ORTER (2)		
A N	NAME: WATSON CONSTRUC	HON:		NAME:					
S	TEXAS I.D. NO.			TEXAS I.D. NO.					
P	IN CASE OF EMERGENCY CONTACT:	ZANE	KURTZ	IN CASE OF EME	RGENCY	CONTAC	TT-		
0	EMERGENCY PHONE: (432)	425-2	023						
R T	18. TRANSPORTER (1): Acknowledgment of	f receipt o	of material	EMERGENCY PHO 19. TRANSPOR		2): Ackno	wledgment of re	ceint of ma	torial
Ē R	PRINTED/TYPED NAME RY TOH	AP	JAN	PRINTED/TYPED			degment of ic	ocipi or ma	iteriai
S	PRINTED/TYPED NAME AND SIGNATURE AND HISTORY	DATE	11/14	2015 SIGNATURE			DA	TE	
		ADDR	ESS:				PHONE:		
	Lea Land, LLC		Mile	e Marker 64, U.S	S. Hwy	62/18		575-887	-1018
D F I A				Miles East of Ca	-		°,	775~007	-1040
s C	PERMIT NO.			20. COMMENTS					
PI	WM-01-035 - New Mexic	СО							
DL	21 DISPOSAL FACILITY'S CEPTIFICA	TION.							
T	21. DISPOSAL FACILITY'S CERTIFICA facility is authorized and permitted to receive such wa	stes.	1 Hereby	certify that the above de	scribed w	astes were	delivered to this	facility, the	at the
Y	AUTHORIZED SIGNATURE		17	CELLAIO		T =			
- /	10 10 11 1			CELL NO.		DATE		TIMI	
U	MATICA I MAROUS					1	4/14/2015	$\perp \prime 2$	50

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

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A T L Y

	1300 WEST MAIN S	LEA LA TREET • OKLAHOM	ND, LLC A CITY, OK 73106 • 1	PHONE (4	405) 236-42	257 ST	P	
NO	N-HAZARDOUS WASTE MANII	FEST NO	110355	1. PA	GEOF_	2. TRAIL	ER NO.	ma
_	3. COMPANY NAME	4. ADDRESS			5. P	ICK-UP DATE		
G	E.O.G Resources PHONE NO.	5509 Champ	ion _{st} Dr _E		710	**************************************		
le:			1			NKCC I.D. NC).	
E	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPP	Midland ED:	TX.		708 TAINERS	9. TOTAL	10. UNIT	11. TEXAS
N	a.			No.	Type	QUANTITY	Wt/Vol.	WASTE ID#
14	Non-Regulated, Non Hazardous Was	te		1	CM		Y	
E	38140							
R	WT: 10040 29	20(0)						
_	12. COMMENTS OR SPECIAL INSTRUCTIONS	:				13. WASTE P	ROFILE N	D.
A	SHORT FUSE FEDERAL #1		T-116	Ar	3			
	14. IN C	ASE OF EMERG	ENCY OR SPIL	L CON	TACT			
T	NAME	PHONE NO 575-887-4048	Divor Ortoria	<u> </u>	inci	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC							
R	PRINTED/TYPED NAME CO. MAN: ZANE KURTZ		SIGNATURE	·				DATE
T	16. TRANSPORTER (1)		17.	TR	ANSPO	RTER (2)		
R A	NAME: SDR ENTERPRSES	LLC	NAME:					ĺ
N	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT:	SHANNON	IN CASE OF EME	RGENCY	CONTAC	T:		ŀ
0	EMERGENCY PHONE: (575	i) 441-7330	EMERGENCY PH	ONE:				ľ
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPOR		2): Acknow	wledgment of re	eceipt of ma	aterial
E R	PRINTED/TYPED NAME X (ALL RA	ovelace	PRINTED/TYPED	NAME_				
S	SIGNATURE * CRL	DATE 8/21/	2015 SIGNATURE			D.	ATE	
		ADDRESS:				PHONE:		
) F	Lea Land, LLC	I .	Marker 64, U.S	-),	575-887	7-4048
[A	PERMIT NO.	30 N	Miles East of Ca	risbad,	NM			
S C P I D L	WM-01-035 - New Mex	ico	20. COMMENTS					
5 I 5 T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v	ATION: I Hereby c	ertify that the above de	escribed w	vastes were	delivered to the	is facility, th	nat the
. Y	ALTHORIZED SIGNATURE		CELL NO.		DATE		TIM	iF

CELL NO.

DATE

8/21/2015

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NOI	N-HAZARDOUS WASTE MANIF	EST	NO	110356	1. PA	GE	OF	2. TRAII	ER NO.	002.
G	3. COMPANY NAME	4. ADDI	RESS				5. PICK	-UP DATE		
Ġ	E.O.G Resources PHONE NO.	5509 CITY	Champ	ion Dr. STATE		ZIP		1/2015 CC I.D. NO).	
E	(432) 686-3705	Midla	and	TX.	79	708				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINE Type		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	^a Non-Regulated, Non Hazardous Wast	te			1	Ch	1		Y	WILL ID
E	b.									
	dWT:22015		 			<u> </u>				
R	23940.									
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1						13.	WASTE P	ROFILE N	О.
	14. IN CA	SE OF	FMEDC	ENCY OR SPIL	I CO	NTTA C	T			
T	NAME	PHON		ENCT OR SPIL	iL, COI	NIAC		24-HOUR	EMERGE	NCY NO.
15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicate international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA L							plicable			
R	PRINTED/TYPED NAME CO. MAN: ZANE KURTZ			SIGNATURE						DATE
T	16. TRANSPORTER (1)			17.	TF	RANS	PORT	ER (2)		
R A	NAME: SDR ENTERPRSES	LLC		NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT:	SH	ANNON	IN CASE OF EME	RGENC	Y CON	TACT:			
0	EMERGENCY PHONE: (575) 441-7	7330	EMERGENCY PH	ONE:					
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPO	19. TRANSPORTER (2): Acknowledgment of receipt of material					
E R	PRINTED/TYPED NAME James	DW	Lin	PRINTED/TYPED	NAME .					
s	SIGNATURE James Du	DATE	8/21/	2015 SIGNATURE				D	ATE	
		ADDI						PHONE:		
D F	Lea Land, LLC			Marker 64, U.		-			575-88	7-4048
I A	PERMIT NO.		30 N	Miles East of Ca	arisbad	Ļ NW	L]			
S C P I O L	WM-01-035 - New Mex	ico		20. COMMENTS						
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		I: I Hereby	certify that the above d	lescribed	wastes	were deli	ivered to th	is facility, t	hat the
LY	AUTHORIZED SIGNATURE			CELL NO.		D.	ATE	200	TIN	1E
	1 Marchana						8/2	1/2015	19	30.

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

						Lesson of the				
NON	N-HAZARDOUS WASTE MANIF	EST	NO	110318	1. PA	GEC	OF	2. TRAII	ER NO.	+00M
	3. COMPANY NAME	4. ADDR	ESS				5. PICK	-UP DATE		
G	E.O.G Resources	5509	Champ	ion Dr		-	0/-	0/2015		
	PHONE NO.		Cuamp							
	PHONE NO.	CITY		STATE			6. TNR	CC I.D. NO		
E	(432) 686-3705	Midlar	nd	TX.	79	706				
IL I					8. CON	TAINE	0 20	TOTAL	10 IDUT	11 TENAG
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			No.	Type	- 1	JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
	obi (7) 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1						<u> </u>	MITT		WASTE ID#
N	^a Non-Regulated. Non Hazardous Wast	[8			1	CM	1		Y	
	b. 22000									
	l ^a 23820									
E	с.						-			
	c.									
	dWT: 701 A = 2				<u> </u>					
R	(1)(24)	5.00	20							
		~:\					-			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13.	WASTE P	ROFILE NO	D.
A					01	10				
A				1-10	7.4	60				
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L. COI	NTAC	Г			-
	NAME		3 ^{NO} 4048	Zivor Ortoriz	2,001		-	24-HOUR	EMERGEN	VCV NO
T		575-8	37-4048					2.110010	LIMEROLI	101 110.
	15.GENERATOR'S CERTIFICATION:	I Hereby o	leclare that	the contents of this co	nsignmer	nt are fu	llv and	accurately	described at	nove by proper
0	shipping name and are classified, packed, marked, and	d labeled, a	and are in al	I respects in proper con	ndition fo	or transp	ort by h	ighway acc	ording to an	plicable
	international and national government regulations, in	cluding ap	plicable sta	te regulations, and are	the same	materia	ls previ	ously appro	ved by LEA	LAND, LLC
	DDINTED/TYPED MANE			avanus en en						
R	PEINTEDAN! EZANEM RURTZ			SIGNATURE						DATE
										:
-		H-24								
T	16. TRANSPORTER (1)			17.	TF	RANSI	PORT	ER (2)		
R	SDR ENTERPRSES	LLC								
A	NAME:			NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.						
S		SHA	NON							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONT	ACT:			
0	(575) 441-73	330							
R	EMERGENCY PHONE:			EMERGENCY PH		(4)				
Т	18. TRANSPORTER (1): Acknowledgment o		f material	19. TRANSPOI	RTER ((2): Acl	knowled	lgment of r	eceipt of ma	aterial
E		7								
R	PRINTED/TYPED NAME	1	<u></u>	PRINTED/TYPED	NAME.					
S			8/20/							
	SIGNATURE (NIZATO)	DATE		SIGNATURE				D	ATE	
	U IV		200			-				
		ADDR	ESS:					PHONE:		
	Lea Land, LLC		Mile	: Marker 64, U.	S. Hw	y 62/1	180,		575-881	7-4048
D F			30 N	Tiles East of Ca	rlshad	NM				
I A			2011		113040	5 1 1111				
SC	PERMIT NO.			20. COMMENTS						1
PI	WM-01-035 - New Mex	100								1
O L										
SI	21.DISPOSAL FACILITY'S CERTIFIC	ATION:	I Hereby o	ertify that the above d	escribed '	wastes w	vere del	ivered to th	is facility, tl	hat the
AT	facility is authorized and permitted to receive such w	vastes.								-
LY			- 5							
	ACTHORIZED SIGNATURE			CELL NO.	DATE TIME				TE	
1	1 Dong having				•		8/2	0/2015	11/	$^{\circ}$ 10. $^{\circ}$
			-	I.S		1			3 11 /	・ハノ゛』

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

			4 4 6 0 0 0	1110112 (105) 250 1.	37	11 14)
NO	N-HAZARDOUS WASTE MANIF	EST NO	112320	I. PA	GEOF_	2. TRAI	LER NO.	#MM
	3. COMPANY NAME	4. ADDRESS			5. P	ICK-UP DATE	3	COO
G	E.O.G Resources	5509 Cham	pion Dr.		1	1/25/2015		
	PHONE NO.	CITY	STATE	:	ZIP 6. T	NRCC I.D. NO).	
E	(432) 686-3705	Midland	TX.	797	706			
1	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	aNon-Regulated, Non Hazardous Wast	е		1	CM	QOARTITI	Y	WASTEID
	b.							
E	C.							
R	40940 419	26) E	43 840					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		10,010			13. WASTE P	ROFILE N	O.
A	SHORT FUSE FED#1		0 10/	Mni	7			
	14. IN CA	SE OF EMED	GENCY OR SPIL	1. CON	/ I			
Т	NAME	PHONE NO	GENCY OR SPIL	L, CON	TACI	24-HOUR	EMERGE	NCY NO.
	KIN SLAUGHTER	575-887-4048	}					
0	15.GENERATOR'S CERTIFICATION: 1	Hereby declare that	t the contents of this co	onsignment	are fully a	ind accurately	described a	bove by proper
	shipping name and are classified, packed, marked, and international and national government regulations, inc	i tabeled and are in	all rechects in proper co	indition to:	· transmost b	are biobiiione co-	mandia a ta	1' 11
R	PRINTED/TYPED NAME		SIGNATURE					DATE
								Dill
T	16. TRANSPORTER (1)		17.	TR	ANSPO	RTER (2)		
R A	NAME: SDR ENTERPRISE I	ПС	NAME:			(-)		
N	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT:	SHANNON						
0			IN CASE OF EME	RGENCY	CONTAC	Γ:		
R	EMERGENCY PHONE: (575) 18. TRANSPORTER (1): Acknowledgment of	441-7330	EMERGENCY PH					
T E			19. TRANSPOI	KIER (2	:): Acknov	ledgment of re	eceipt of ma	aterial
R	PRINTED/TYPED NAMES (Arch 1000	HEL	PRINTED/TYPED	NAME _				
S	SIGNATURE THE ALER	DATE 11/25	/2015 NATURE			D	ATE	
	(0.07,0.1	ADDRESS:					AIL	
	Lea Land, LLC		e Marker 64, U.S	S Huzz	62/180	PHONE:	575-887	7 4049
DF			Miles East of Ca			,	3/3-00	7-4048
I A S C	PERMIT NO.		20. COMMENTS	irrooud,	14141			
P I	WM-01-035 - New Mexi	со						
O L S I	21.DISPOSAL FACILITY'S CERTIFICA	TION: I Hereby	certify that the above de	accribed w	natas mana	d=15	. 6 111	
A T	facility is authorized and permitted to receive such wa	istes.	corning that the above de	escribed w	astes were	delivered to thi	s racility, tr	nat the
LY	AUTHORIZED SIGNATURE	۸	CELL NO.		DATE		TIM	IE
	Mintal Manage	/				MEMORE		- W
GENER	ATOR: COPIES 1 & 6	DISPOSAL SIT	E: COPIES 2 & 3		11	/25/2015	DTERS =	,,,,,,
		O STATE BIT	D. COT IEU 2 00 J			IKANSPO	KIERS: C	OPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

				4 4 A 4 4 A				Ur)
NO	N-HAZARDOUS WASTE MANIF	FEST NO)	112418	1. PA	GEOF_	2, TRAIL	ER NO.	#00G
	3. COMPANY NAME	4. ADDRESS				5. F	ICK-UP DATE		
G	E.O.G Resources	5509 Ch	nampi	on Dr.			12/3/2016		
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO.		
E	(432) 696-3705	Midland		TX.	79	706			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			1 .	TAINERS		10. UNIT	11. TEXAS
N	aNon-Regulated, Non Hazardous Wast	te			No.	Type	QUANTITY	Wt/Vol.	WASTE ID #
	b.					-10.			
E	b.								
IC.	c.								
	dWT 10000 B 000	- C)	2/3					
R	42,080 393	XO C		54 741)					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE PR	OFILE N	O.
A	SHORT FUSE FED # 1	-	TT	0 1211	no)			
	14. IN CA	SE OF EM	FDG	2 10 10	Y(1)	/ I			
Т	NAME	PHONE NO	ERG	ENCY OR SPIL	L, CO	NTACT	24-HOUR I	MEDGE	NCV NO
1	KIN SLAUGHTER	575-987-4	1048				24-11001(1	MERGE	NCT NO.
	15.GENERATOR'S CERTIFICATION:	I Hereby declar	re that t	he contents of this ear		4 6.11.			
0									
	and national government regulations, in	cluding applical	ble state	e regulations, and are	the same	materials p	reviously approv	ed by LEA	A LAND, LLC
R	PRINTED/TYPED NAME			SIGNATURE					DATE
T	16. TRANSPORTER (1)			17.	TR	ANSPO	RTER (2)		
R A	NAME: SDR ENTERPRISE	LLC		NAME:					
N	TEXAS I.D. NO.			TEXAS I.D. NO.					
S	IN CASE OF EMERCENCY CONTACT	SHANN	ON						
P	IN CASE OF EMERGENCY CONTACT:		ON	IN CASE OF EME	RGENCY	CONTAC	Γ:		
R		441-7330		EMERGENCY PHO					
T	18. TRANSPORTER (1): Acknowledgment of		erial	19. TRANSPOR	RTER (2): Acknov	vledgment of rec	eipt of ma	nterial
E R	PRINTED/TYPED NAME ARCHOO	effice		PRINTED/TYPED	NAME				
s	SIGNATURE CON Prefor	<u>.</u> . 1	12/3/0						
	SIGNATURE VICEO	DATE		2015 SIGNATURE			DA	ГЕ	
		ADDRESS:					PHONE:		
D F	Lea Land, LLC]	Mile	Marker 64, U.S	S. Hwy	62/180), 5	75-887	7-4048
I A			30 M	iles East of Car	rlsbad,	NM			
s c	PERMIT NO.		:	20. COMMENTS					
PI OL	WM-01-035 - New Mexi	ico							
SI	21.DISPOSAL FACILITY'S CERTIFICA	ATION: I He	reby ce	rtify that the above de	scribed v	vastes were	delivered to this	facility th	ot the
$\mathbf{A} \cdot \mathbf{T}$	facility is authorized and permitted to receive such wa	astes.				and well	aonyorea to mis	racinty, th	iai ine
LY	AUTHORIZED SIGNATURE			CELL NO.		DATE		TIM	F
	MATCH MONORA				_			10	1.15
	A TOMAN A JOHN HIM	121					2/3/2015	1 7	.40

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON	-HAZARDOUS WASTE MANIFE	ST NO 1	12439	1. PAG	GE_OF_	2. TRAIL	er no.#	Ole
T	5. COMMINT TO MAD	. ADDRESS			5. PIC	CK-UP DATE		
G	E.O.G. Resources	5500 Champio	n-Dr.			2/4/2015		
	11101121101	CITY	STATE	_		IRCC I.D. NO).	
E	(432) 686-3705	Midland	TX.	797	06			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONT	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	aNon-Regulated, Non Hazardous Waste			1	СМ		Y	
	I.						-	
	b.							
E	c.							
R	WT 40140 3992	10 4	38(e)					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P	ROFILE N	Ο.
A	SHORT FUSE FED#1	-16	1239.	11				
	14. IN CAS	E OF EMERCI	ENCY OR SPIL	L. CON	NTACT			
т	NAME	PHONE NO	OR BITL	_, 501		24-HOUR	REMERGE	NCY NO.
1	1 (1) ((0) (0) (10) (0) (1) (0)	575-887-4048						W-1000
О	15.GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, incl	labeled and are in all	respects in proper co	indition fo	or transport b	oy highway ac	cording to a	ippiicable
	PRINTED/TYPED NAME		SIGNATURE					DATE
R	I KINIDO I TIDO I WIND							
T	16. TRANSPORTER (1)		17.	TF	RANSPO	RTER (2)		
R		10	NAME:		/			
A N		<u>- L., L., .</u>						
S	TEXAS I.D. NO.	SHANNON	TEXAS I.D. NO.			T.		
P	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMI	ERGENC	Y CONTAC	:1:		
O R	EMERGENCI PHONE.	441-7330	EMERGENCY PL		(2): Ackno	wledgment of	receipt of r	naterial
T	18. TRANSPORTER (1): Acknowledgment of	receipt of material						
E R	PRINTED/TYPED NAME CAUL BOOK SIGNATURE CAUL BURLEY	WK	PRINTED/TYPEI					
S	SIGNATURE Sall Burlese	DATE 12/4/	2015 SIGNATURE				DATE	
		ADDRESS:				PHONE		
	Lea Land, LLC	Mile	e Marker 64, U	J.S. Hw	vy 62/18	0,	575-88	87-4048
D F		30 N	Miles East of C	arlsba	d, NM			
I A S C P I	PERMIT NO. WM-01-035 - New Mexicol	ico	20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I Hereby astes.	certify that the above	described	i wastes wer	e delivered to	this facility	that the
L Y	AUTHORIZED SIGNATURE		CELL NO.	/	DATI	3	J	TWE
	MANTAL MANNE	0				12/4/2015	, (1:05
	RATOR: COPIES 1 & 6	F DISPOSAL SIT	E: COPIES 2 & 3				THE RESERVE	: COPIES 4 & 5
GENE	A MARKET PARK TO THE PARK TO THE PARK T							

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

and the same								14		
NOI	N-HAZARDOUS WASTE MANIF	EST NO	L12462	1. PAG	EOF	2. TRAILE	R NO. 🕇	27		
	3. COMPANY NAME	4. ADDRESS 5. PICK-UP DATE						'		
G	E.O.G Resources	on Dr.		1	2/7/2015					
	PHONE NO.	CITY	STATE	ZIP 6. TNRCC I.D. NO.						
	(432) 686-3705	79706 TNRCC I.B. NO.								
E										
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS No. Type QUANTITY Wt/Vol. WASTE ID #						
N	aNon-Regulated, Non Hazardous Waste			1	CM		Y Y			
14										
	b.									
E				-						
_	c.									
	dWT YE ODS &	(3)	1100	 			-			
R	35.780 40	3() · 4	H. 400							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		, , , , ,		1	3. WASTE PR	OFILE N	0.		
	SHORT FUSE FED # 1		- ,,,,,,	11 ^						
A	508004 444000	1 (0	WIIXÓ	(Let))					
	14. IN CA	SE OF EMERG	ENCY OR SPIL	L, CON	TACT		Contract of			
Т	NAME	PHONE NO				24-HOUR E	EMERGE	NCY NO.		
1	KIN SLAUGHTER									
	15 CENEDATOD'S CEDITIFICATION: I Haveled delta the content of this continue of the content of th									
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable									
	international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC									
	PRINTED/TYPED NAME		SIGNATURE					DATE		
R	TANTED TANTE	SIGIAM OICE					~111 ii			
T	16. TRANSPORTER (1) 17.			TR	ANSPOR	TER (2)				
R	NAME: SDR ENTERPRISE	NIAME:								
A	NAME: SDR ENTERPRISE	NAME:								
N	TEXAS I.D. NO.	TEXAS I.D. NO.								
S P	IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMI	MERGENCY CONTACT:							
O										
R	EMERGENCY PHONE: (575	HONE:								
T	18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material							aterial		
E	PRINTED/TYPED NAMEPRINTED/TYPED NAME									
R										
S	SIGNATURE DATE 12/7/2015 SIGNATURE DATE									
	1 was	í —				-				
		ADDRESS:				PHONE:				
D F I A S C	Lea Land, LLC	Mile	e Marker 64, U	.S. Hwy	62/180	, [575-88	7-4048		
		30 N	Ailes East of C	arlsbad,	NM					
	PERMIT NO.		20. COMMENTS							
PI	WM-01-035 - New Mexico									
O L S I										
	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the							that the		
A T	facility is authorized and permitted to receive such	vastes.						0		
L Y	AUTHORIZED SIGNATURE /	١	CELL NO.		DATE		TH	ME		
	Marton ama.)_				0/7/00/15	10	1.44		
	VIUXIAVV VILIPZOV	12				2/7/2015		1.00		

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 OFFA N #A									
NON	-HAZARDOUS WASTE MANIF	EST NO	112484	I. PAC	GEOF_	2. TRAIL	ER NO.	427	
G	3. COMPANY NAME E,O,G Resources PHONE NO.	4. ADDRESS 5509 Champi CITY	ori Or. State	2		ICK-UP DATE 12/8/2015 NRCC I.D. NO			
E	(432) 686-3705	Midland	TX.	797		O TOTAL	10 10 10	11 7774.6	
	7. NAME OR DESCRIPTION OF WASTE SHIPPE			No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	^a Non-Regulated, Non Hazardous Wast	e		1	CM		Υ		
E	ь.	<u></u>							
R	WT: 44,140 0 42,740 0 43,120							0	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1 13. WASTE PROFILE NO.							O.	
Т	14. IN CA NAME KIN SLAUGHTER	SE OF EMERG PHONE NO 575-887-4048	ENCY OR ŚPIL	L, CON	TACT	24-HOUR	EMERGE	NCY NO.	
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
R	PRINTED/TYPED NAME		SIGNATURE					DATE	
T R	16. TRANSPORTER (1)	17. TRANSPORTER (2) NAME:							
A	NAME: SDR ENTERPRISE								
N S	TEXAS I.D. NO.	TEXAS I.D. NO.							
P O	IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:							
R	EMERGENCY PHONE: (575) 18. TRANSPORTER (1): Acknowledgment of	EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material							
T E R	PRINTED/TYPED NAME (NYS) (USIM)	PRINTED/TYPED NAME							
S	SIGNATURE THUS (MINUS)	DATE 12/8/	20stonature			r	DATE		
	1 1 1112	ADDRESS:		-		PHONE:		- 40:0	
D F	Lea Land, LLC	1	e Marker 64, U Miles East of C		-	0,	575-88	37-4048	
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	20. COMMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		certify that the above	described	wastes were	e delivered to t	his facility,	that the	
L Y	AUTHORIZED SIGNATURE	CELL NO.		DATE	3	TII	ME		
	Wanton () non				12/8/2015	(4.00		

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

		V-11-0-11-11-11-11-11-11-11-11-11-11-11-1					LUI	rurix	TI.		
NOI	N-HAZARDOUS WASTE MANIF	EST NO	112508	1. PAG	GEO	F	2. TRAIL	ER NO.	#27		
0.00	3. COMPANY NAME	4. ADDRESS	· · · · · · · · · · · · · · · · · · ·		5	. PICK	-UP DATE				
G	E.O.G Resources	 5509 Champid	n= C=			404	9/2015				
	PHONE NO.	CITY	STATE		I '	, TNR	CC I.D. NO	IO. UNIT 11. TEX Wt/Vol. WASTE I Y PROFILE NO. IR EMERGENCY NO. y described above by proceording to applicable proved by LEA LAND, I DATE f receipt of material			
E	(432) 686-3705	Midland	TX.	797	08						
Ŀ		<u> </u>		8. CONTAINERS 9			TOTAL	10 INIT	11 TEYAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		No. I	Type		JANTITY		WASTE ID #		
N.T	aNon-Regulated, Non Hazardous Wast			1	CM	1					
N	The second control of the second control o	<u> </u>		'	₩ IVI			,			
	b.			1							
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E	c.	****									
		\overline{a}									
	WIZI OND & INC	100	TE FOR								
R	1 3910 400	CeU C	わらえし								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			10 1=		13.	WASTE P	ROFILE N	0.		
	SHORT FUSE FED#1			1	~	-					
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	IN CA	OF OF EMEDO	ENGY OD CDIL	I CON	TOTA CO	n.			46.5		
		SE OF EMERG	ENCY OR SPIL	L, COP	VIACI		O.4 HIOTID	D) (DD OF)			
T	NAME	PHONE NO					24-HOUR	EMERGE	NCY NO.		
	KIN SLAUGHTER	575-887-4048									
	15.GENERATOR'S CERTIFICATION:	I Haraby dealars that	the contents of this co	ngianman	t are ful	ly and	o o o urotely	lecaribed a	hove by proper		
0	shipping name and are classified, packed, marked, an	d labeled, and are in al	l respects in proper co	ndition fo	r transpo	rt by h	ighway acc	ording to a	policable		
_	international and national government regulations, in	cluding applicable stat	e regulations, and are	the same	material	s previ	ously appro	ved by LE.	A LAND, LLC		
R	PRINTED/TYPED NAME	SIGNATURE						DATE			
Т	16. TRANSPORTER (1) 17.			TR	ANSP	ORT	ER (2)				
R	itelitol out Elt (1)	17.	11.	Z XI VOI	OICE	LIC (2)					
A	NAME: SDR ENTERPRISE	NAME:									
N											
S	TEXAS I.D. NO.	TEXAS I.D. NO.									
P	IN CASE OF EMERGENCY CONTACT:	RGENCY	CONT	ACT:							
O											
R	EMERGENCY PHONE: (575) 441-7330 EMERGENCY PH										
T	18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material										
E	Na bio										
R	PRINTED/TYPED NAME L NISCATION PRINTED/TYPED NAME PRINTED/TYPED NAME										
S		40/0/	0045								
3	SIGNATURE Med analys	DATE 12/9/	2015 SIGNATURE				D	ATE			
		Total						OM TO			
		ADDRESS:					PHONE:				
	Lea Land, LLC	Mile	: Marker 64, U.	S. Hw	y 62/1	180,		575-88	7-4048		
D F		30 N	Ailes East of Ca	arlsbad	NM						
I A	PERMITNO			WI I S G W G	7 1 1111						
S C	PERMIT NO.	•	20. COMMENTS								
P I	WM-01-035 - New Mexico										
O L	DISPOSAL FACILITYIS CEPTERICATION							20			
S I	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the							that the			
A T	facility is authorized and permitted to receive such v	vasies.									
L Y	AUTHORIZED SIGNATURE	A	CELL NO.		DA	TE		TIT	ME		
	1 9 1 . //			").n~			
	Motol Donal				12	/9/2015		1.00			

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257												
NON	-HAZARDOUS WASTE MANIF	EST	NO	112509	1. PAG	GEOF	2. TRAIL	ER NO.	#150			
	3. COMPANY NAME	4. ADDI				5. 1	5. PICK-UP DATE					
G	E.O.G Resources	5500	Chempi			710	12/0/2015					
	PHONE NO. (432) 688-3705	CITY	nd	STATE TX.	797		TNRCC I.D. NO	,				
E			- 14	17/.		TAINERS	9. TOTAL	AL 10. UNIT 11. TEXAS				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE				No.	Type	QUANTITY	Wt/Vol.	WASTE ID #			
N	aNon-Regulated, Non Hazardous Wast	te			1	CM		Y				
	b.											
E	C.							-				
R	WT: 45,28D 44	104	7									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	O.			
A	SHORT FUSE FED#1		TOTA	16 8	29%	05						
				ENCY OR SPIL	L, CON	NTACT						
Т	NAME	PHON	IE NO				24-HOUR	EMERGE	NCY NO.			
	KIN SLAUGHTER 575-887-4048											
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable											
	international and national government regulations, in	ncluding a	ipplicable sta	ate regulations, and are	the same	materials	previously appr	oved by LE	A LAND, LLC			
R	PRINTED/TYPED NAME			SIGNATURE	_				DATE			
							100 100					
T	16. TRANSPORTER (1)			17.	17. TRANSPORTER (2)							
R A	NAME: SDR ENTERPRISE LLC			NAME:								
N	TEXAS I.D. NO.	TEXAS I.D. NO.										
S P	IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:										
O	EMERGENCY PHONE: (575) 441-7330 EMERGENCY PHONE:											
R	22	18. TRANSPORTER (1): Acknowledgment of receipt of material				(2): Ackr	nowledgment of	receipt of n	naterial			
T E	PRINTED/TYPED NAME	PRINTED/TYPED NAME										
R S	X	-	3 m ec	1								
3	SIGNATURA EVERUTE DO	DATE	12/9	/203fGNATURE			I	DATE				
		ADD	RESS:				PHONE:					
D F	1			e Marker 64, U.		•	80,	575-88	37-4048			
I A			30	Miles East of C	arisbac	a, NM						
S C	PERMIT NO. WM-01-035 - New Me:	xico		20. COMMENTS								
P I O L												
S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								that the			
LY	AUTHØRIZED SIGNATURE	Λ		CELL NO.		DA	TE	M	h y iE			
	Santa Jano		-		12/9/2015	10	111					

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5